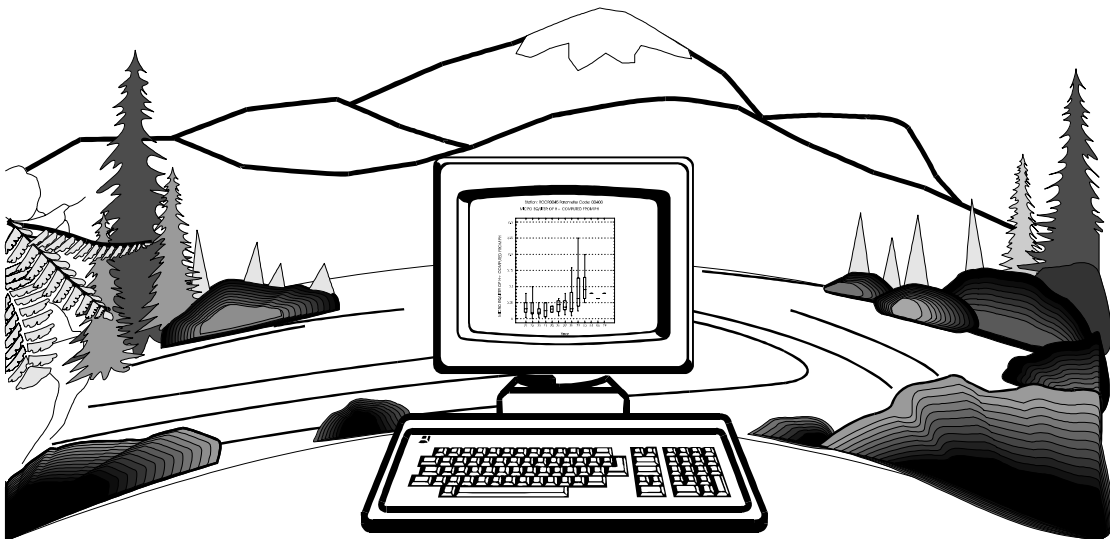
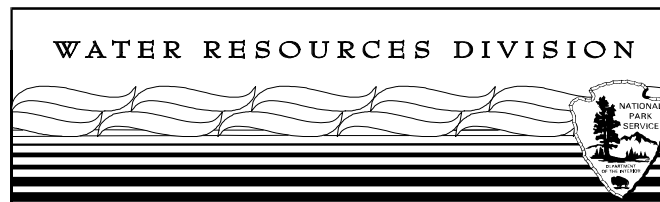

BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

Sleeping Bear Dunes National Lakeshore



WATER RESOURCES DIVISION AND SERVICEWIDE INVENTORY AND MONITORING PROGRAM



*National Park Service - Department of the Interior
Fort Collins - Denver - Washington*

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BASELINE WATER QUALITY DATA
INVENTORY AND ANALYSIS

SLEEPING BEAR DUNES
NATIONAL LAKESHORE

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-97/106

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Washington, D.C.

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Sleeping Bear Dunes National Lakeshore (SLBE) from six of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) water quality database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); (5) Water Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's (NPS) Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze surface water quality data for all units of the National Park System containing significant water resources. The primary goal of the project is to provide descriptive water quality information in a manner and format that is both consistent with the goals of the Servicewide Inventory and Monitoring Program and useable by park resource managers. The document provides: (1) a complete inventory of all retrieved water quality parameter data, water quality stations, and the entities responsible for the data collection; (2) descriptive statistics and appropriate graphical plots of water quality data characterizing period of record, annual, and seasonal central tendencies and trends; (3) a comparison of the park's water quality data to relevant EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis (IDEA) to determine what Servicewide Inventory and Monitoring Program "Level I" water quality parameters have been measured within the study area. Accompanying the report are disks containing digital copies of all data used in the report, as well as all components of the report (tables, figures, etc.).

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located three industrial/municipal dischargers; no drinking water intakes; four active or inactive U. S. Geological Survey (USGS) water gages (including stream and well); and 12 water impoundments. The results of the STORET retrieval for the study area yielded 51,317 observations for 294 separate parameters collected by the NPS, USGS, EPA, and Michigan Department of Natural Resources at 149 monitoring stations. Of the 149 stations, ten stations within the study area (one within the park boundary) were established but contained no data. Seventy-six stations were located within the park boundary (see Station Period of Record Tabulation).

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Sixty stations within the study area (36 within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the park boundary are: (1) Loon Lake (SLBE 0042); (2) Narada Lake (SLBE 0130); (3) Bass Lake (Benz.) (SLBE 0067); (4) North Bar Lake (SLBE 0085); (5) Platte River At M-22 Nr Honor, Michigan (SLBE 0048); and (6) Platte R at W End Mich Rd; Lake Twp, Sec 20 (SLBE 0052). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Platte R. At US-31 Bridge; Homestead Twp Sec. 12 (SLBE 0008); (2) Big Platte Lk-Nw Basin; Benzonia Twp., Sec. 34 (SLBE 0038); (3) Platte R Above Platte Hatchery; Inland Twp Sec 6 (SLBE 0025); (4) Platte R At Indian Hill Rd; Homestead Twp. Sec 8 (SLBE 0023); (5) Platte Lake At 90 Foot Basin (SLBE 0040); and (6) Platte Lake-East Basin; Benzonia Twp. Sec 1 (SLBE 0028)[†].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the SLBE water quality criteria screen found eight groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Cadmium and

[†]Water quality station location descriptions are verbatim from STORET. Any misspellings and abbreviations in STORET are replicated in this document.

lead exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) exceeded the WRD screening limits for freshwater bathing.

Dissolved oxygen concentrations were measured 4,283 times at 87 monitoring stations from 1962 through 1996. Of the 4,266 observations used in the criteria analysis (see Remark Code Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide to Water Quality Results for explanation), 618 observations at 27 stations located throughout the study area were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life. Sixty-one percent of the observations below the criterion were recorded at five stations in Platte Lake (SLBE 0028, SLBE 0033, SLBE 0036, SLBE 0038, SLBE 0040) from 1974 through 1996. All but two of the observations exceeding this criterion were collected in lakes.

The pH was measured 2,714 times at 99 monitoring stations from 1962 through 1996. Of the 2,711 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 16 observations at seven lake stations (SLBE 0022, SLBE 0042, SLBE 0097, SLBE 0117, SLBE 0123, SLBE 0135, SLBE 0145) were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). All 16 observations were greater than or equal to pH 9.0. The highest reported pH was 9.8 SU in the northern part of Glen Lake (SLBE 0097) in September 1973.

Total coliform concentrations were measured 792 times at 27 monitoring stations from 1967 through 1979. Two-hundred-thirty-one observations at 24 stations exceeded the WRD bathing water criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml). Seventy-three percent of the observations exceeding the criterion were reported from 12 stations in the Platte River, including the highest reported concentration of 91,000 CFU/100 ml from an outlet at the fish hatchery on the Platte River (SLBE 0017) in May 1972. Fecal coliform concentrations were determined 946 times at 37 monitoring stations from 1967 through 1981. Of the 940 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), seven observations in the Platte River (SLBE 0008, SLBE 0025), one observation in the North Branch of the Platte River (SLBE 0032), and one observation in Lake Michigan, east of the mouth of the Platte River (SLBE 0076) exceeded the WRD bathing water criterion of 200 CFU/MPN/100 ml. The highest reported concentration of 2,000 CFU/100 ml occurred in the Platte River above the fish hatchery (SLBE 0025) in July 1978.

Cadmium concentrations (including dissolved and total) were measured 75 times at 27 monitoring stations from 1970 through 1993. One dissolved concentration of 5.0 micrograms per liter (µg/L) in the Platte River at the State Highway 22 Bridge (SLBE 0048), one dissolved concentration of 4 µg/L in Glen Lake near Glen Arbor (SLBE 0102), and one total concentration of 4 µg/L in the Platte River near the U. S. Highway 31 Bridge (SLBE 0009) exceeded the acute freshwater criterion of 3.9 µg/L. The highest concentration of 5.0 µg/L in the Platte River at the State Highway 22 Bridge (SLBE 0048) also equaled the drinking water criterion of 5.0 µg/L in May 1980.

Copper concentrations (including dissolved and total) were measured 52 times at 18 monitoring stations from 1970 through 1993. Four total concentrations of 20 µg/L reported in Glen Lake (SLBE 0093, SLBE 0097) exceeded the acute freshwater criterion of 18 µg/L in September 1973.

Lead concentrations (including dissolved and total) were measured 75 times at 27 monitoring stations from 1970 through 1993. One total concentration of 19 µg/L in the Platte River near the U. S. Highway 31 Bridge (SLBE 0009) and one total concentration of 18 µg/L in Lake Michigan in the southern part of the study area (SLBE 0058) exceeded the drinking water criterion of 15 µg/L in July 1977.

Zinc concentrations (including dissolved and total) were measured 80 times at 28 monitoring stations from 1970 through 1993. Two total concentrations of 240 µg/L in the Platte River near the U. S. Highway 31 Bridge (SLBE 0010) exceeded the acute freshwater criterion of 120 µg/L in July 1977 and September 1982.

The IDEA conducted for SLBE indicates that STORET data exist for all 13 Level I parameter groups in the study area. Relative to other parameter groups, data were limited for the groups Flow, Chlorophyll, and Sulfates/Total Dissolved Solids/Hardness. No data for the group Bacteria have been collected in the study area since 1985 and

only about 13 percent of the Toxic Element group's data were collected after 1985. Results for 25 of the 126 EPA priority toxic pollutants (consisting of inorganic and organic parameters, metals, and pesticides) were retrieved from STORET.

Surface water resources in the SLBE study area include Lake Michigan; the Platte River, North Branch Platte River, and the Crystal River; Platte Lake, Glen Lake, Crystal Lake, and many other smaller lakes; and numerous ponds, creeks, and springs. The data inventories and analyses contained in this report indicate that surface waters within the study area generally appear to be of good quality with some impacts from human activities, particularly in the Platte River watershed. Potential sources of contaminants include industrial and municipal wastewater effluent; septic leakage; stormwater runoff; and recreational use.

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INTRODUCTION

The National Park Service's (NPS) Organic Act of 1916 states that the mission of the NPS is to promote and regulate the use of national parks, monuments, and other units "... to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations." One task embodied by this mission is preserving and protecting water resources and water dependent environments in parks. Ensuring the integrity of park water quality, due to its importance in sustaining natural, aquatic park ecosystems and supporting human consumptive and recreational use, is fundamental to successfully addressing this task. The first step in ensuring the integrity of park water quality is defining historic and extant water quality.

This document represents one product of an ongoing effort by the NPS Water Resources Division (WRD) and the Servicewide Inventory and Monitoring Program to characterize baseline water quality using existing data at park units containing significant natural resources. This effort was initiated in 1993 by the award of a contract to Horizon Systems Corporation to retrieve, format, and analyze surface water quality data from the Environmental Protection Agency's (EPA) Storage and Retrieval (STORET) database system. The scope of work identified in the Request For Proposals outlined several sequential, interrelated project phases, including, but not limited to: (1) determining the water quality retrieval/query area around each park; (2) downloading and assessing the quality of the data from STORET; (3) generating basic water quality summary statistics and graphic plots; (4) reformatting water quality data for compatibility with the park-based Water Quality Data Management System presently under-development; and (5) providing recommendations concerning possible hardware, software, and personnel options for storing combined park databases in a centralized NPS water quality database. This report documents the results of phases one through four of this effort for this park unit.

Goal

The goal of this document is to provide descriptive water quality information in a format usable for park planning purposes (eg. Water Resources Management Plans, Resource Management Plans, and General Management Plans). The report is designed to characterize baseline water quality rather than assess specific water quality problems at a park. This is consistent with the Servicewide Inventory and Monitoring Program's goal of obtaining basic, "Level I", water quality parameters for key waterbodies at each park (National Park Service 1993). Consequently, this report is best used as a reference document to help design new goal-driven water quality monitoring programs rather than as conclusive evidence of previous or existing water quality problems.

Purpose

The purpose of this report is to inventory existing park water quality data; establish baseline water quality at the park; identify potential water quality problems; and establish a park water quality database. This report is intended to enable park resource managers to compare and contrast water quality data collected as part of ongoing inventory and monitoring programs with historical water quality trends. Additionally, this report is intended to foster better designed park-based water quality inventory and monitoring programs in the future. The water quality databases which accompany this report will also lay the groundwork for establishing a NPS water quality database that will allow Regions and Washington Offices to generate regional and national assessments of park water quality.

Objectives

Specific objectives of the study documented in this report are to:

1. Retrieve water quality and related data from the EPA's STORET and other database systems;
2. Develop a complete inventory of all retrieved data;

3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;
4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;
5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and
6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

This report is comprised of five chapters. The first chapter, this Introduction, provides a brief statement of the study's background; goal, purpose, and objectives; and the key personnel who helped produce the document. This chapter also contains this brief overview of the document's contents and important interpretive caveats to consider when referring to and using this document. The second chapter focuses on the methods, procedures, and databases that were employed to retrieve and analyze water quality data for the park. The third chapter is the user's interpretive guide to chapter four. Chapter three explains how to interpret all the tables and figures presented in chapter four. Chapter four, which likely comprises the majority of the document (unless there isn't much water quality data for the park), contains detailed inventories, descriptive statistics, graphics, and national EPA water quality criteria comparisons characterizing the park unit's water quality data on a station-by-station basis and over the entire study area. This chapter also contains a comparison of park water quality data with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters and a listing of water quality observations that were outside the STORET edit criteria range. Chapter five, the Appendices, contains more specialized materials such as the file names and database structures included on floppy disk(s) with this report; STORET edit criteria; national EPA water quality criteria; Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters; selected water quality references; and other materials which provide background on the methods, procedures, and databases used or produced by this study.

The water quality and other related data referenced in this report accompany the document on floppy disk. The water quality parameter data file is in DBASE III+¹ format and will be useable in the park-based Water Quality Data Management System presently under-development. The water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and River Reach databases are also in DBASE III+ and/or ASCII format for ready-use in Geographic Information Systems (GIS), Computer-Aided Design Systems, or Desktop Mapping Systems.

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses² and with the Servicewide Inventory and

¹The use and/or mention of specific proprietary hardware or software packages is for informational purposes only and is not intended to connote or denote an endorsement.

²The Environmental Protection Agency's Quality Criteria for Water 1995 Final Draft (Silver Book) was the primary source of water quality criteria. In the spirit of the other caveats offered in this section, it is important to recognize that water quality criteria are often revised when new or better information become available.

Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

Many individuals contributed to the design and implementation of this project. The primary contributors and their roles in the project are briefly mentioned below.

National Park Service, Water Resources Division:

Dean Tucker was the Contracting Officer's Technical Representative responsible for designing, coordinating, and implementing all aspects of this effort.

Jill Minter coordinated and managed the team which prepared all components of the report.

Gary Rosenlieb provided administrative oversight and was involved in quality control for all tasks related to this project.

Barry Long and Roy Irwin reviewed technical tasks and provided water quality expertise related to data analysis.

Gary Smillie provided hydrologic expertise in the determination of hydrologic seasons.

Mike Matz helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Scott Hermsen, Alicia Lizarraga, and J. Chris Echohawk provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor uploaded water quality data to STORET prior to report preparation.

Jacque Nolan designed the cover.

Horizon Systems:

Cindy McKay served as Project Manager for Horizon Systems, performed the initial requirements analysis, and was involved in all quality control tasks related to the project.

Alan Cahoon was responsible for automating the procedures which produced the water quality databases and Water Quality Results chapter.

Sue Hanson, P.E., provided technical advice for writing this document.

Dr. Jim Loftis was the data quality analyst for the project.

Armando F. Ballofet, P.E., served as the local technical liaison between Horizon Systems and the NPS.

Other National Park Service:

Several other individuals provided invaluable technical review, comments, administrative support, and/or other assistance, including: Dan Kimball, Bill Jackson, Mark Flora, Gary Williams, John Karish, Brendhan Zubricki, Richard Hammerschlag, Randy Ferrin, Gary Vequist, Mike Martin, Kevin Berghoff, and Dyra Monroe.

METHODOLOGY

This section provides an overview of the procedures and criteria used to retrieve and analyze water quality data for each park unit. Generating baseline water quality data inventories and analyses for all NPS units is a monumental task. To accomplish this undertaking given a very limited budget, the procedures employed to produce each report had to be as generic and automated as possible. Consequently, customization of reports to individual park needs and issues was not feasible. Moreover, such customization was beyond the scope of this effort which was simply intended to produce baseline water quality data inventories for all parks rather than customized issue-driven reports. During the procedure-development stages of the project, specifications for the final product evolved, within the context of the aforementioned resource constraints, to focus on comprehensive water quality baseline data inventories and concise, descriptive statistical examinations of the available water quality data for each park unit. Detailed below are the data sources and final methods and procedures that were used to create the baseline water quality inventories, analyses, databases, and other products for each park unit. A thorough understanding of the limitations of the data sources and procedures described in this chapter and the next (Interpretive Guide to Water Quality Results) is a prerequisite to intelligent use of the results presented in this document.

Delineation of Park Study Area

The first step in retrieving water resources-related data for each park was deciding on a procedure to determine the study area boundary. Since water flows through parks, utilizing the park boundary as a simple query/study area was deemed inadequate. On the other end of the continuum, using the entire watershed as the study area was considered superfluous given: (1) the areal extent of certain park watersheds (eg. the entire Mississippi River); (2) the sheer volume of potentially irrelevant data such a large study area could generate; and (3) the resources required to specify the watershed for each park unit. The approach which was ultimately adopted - a modified hydrologic boundary - reflects a compromise between the park boundary and the entire watershed. Thus the study area employed for each park is an area extending at least three miles upstream and one mile downstream from the park boundary. Although these distances are somewhat arbitrary, this approach is easy to automate and was felt to limit the data retrieved, in most instances, to that of most importance to the park. Extending the query area one mile downstream of the park was intended to capture any data immediately downstream of the park which may reflect the quality of the water in the park. A current (as possible) copy of each park's boundary was obtained in digital format directly from the park or digitized from Regional land status maps, U.S. Geological Survey (USGS) quadrangles, or other sources. Using GIS techniques, the boundary was used to create the three miles upstream, one mile downstream buffer. For a few parks with which WRD water quality specialists were very familiar with potential water quality threats and/or valuable sources of data that may lie just outside the study area, the study area may have been tweaked (enlarged) to cover these areas of concern or interest. Unfortunately, a customized study area was not feasible for all park units. Hence, the three miles upstream, one mile downstream buffer was the primary study area employed for most parks. This study area was transferred to the EPA mainframe computer and used as the basis for all water resources-related data retrievals from the data sources described below.

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Six of these data systems were used for this project:

- STorage and RETrieval System (STORET) - water quality parameter data, locations of sampling stations, descriptive elements about stations and parameters;
- Industrial Facilities Discharge (IFD) - locations of industrial and municipal point source discharge facilities;

- Drinking Water Supplies (DRINKS) - locations of intake pipes for drinking water supplies;
- Water Gages (GAGES) - locations of USGS and other water gages;
- Water Impoundments (DAMS) - locations of most large water impoundments (greater than 10,000 acre feet at normal pool volume) and many smaller impoundments; and
- River Reach File, Version 3 (RF3) - 1:100,000 scale geographical representation of surface waters (rivers, lakes, etc.) with a unique identifier assigned to each surface water segment and connectivity information useful for routing and navigation.

STORET is the national water quality data repository (U.S. Environmental Protection Agency 1989). Water quality data is entered in STORET by public agencies (federal, state, or local) that collect water samples and/or perform laboratory analysis. As such, STORET is a "user-beware" data system. Although the EPA manages the STORET data system and, since November 1983, has imposed some minimum quality control criteria on the data (See Appendix C), data are generated and input to STORET by the "owner" agencies. Consequently, the EPA does not certify any data within STORET. Currently, there are over 800,000 active and inactive sampling stations and more than 225 million observations covering in excess of 13,000 water quality parameters entered in STORET. The earliest data dates back to the turn of the century. Using the bi-monthly update cycle, user agencies may store results of recent monitoring activities in STORET. Included in STORET is USGS WATSTORE water quality data, which is updated on a monthly basis. Although STORET contains a phenomenal amount of data, it is important to note that data exist in STORET only if the collectors decide to upload their data to the system. Since many agencies and researchers do not upload their data to STORET, the absence of water quality data in the system for a particular area doesn't mean that there has never been any water quality data collected for the area. The data may exist in published or unpublished reports, file cabinets, or in agency-specific databases. Identifying and retrieving these other sources of data were beyond the scope of the present effort. All parameter data and water quality station location data downloaded from STORET within the park's study area are included in DBASE III+ format files on disk(s) accompanying this report (See Appendices A and B).

The data within the IFD database are extracted from the EPA's Permit Compliance System (PCS). IFD contains the facility locations of all industrial and municipal dischargers which require a National Pollutant Discharge Elimination System (NPDES) permit to operate. Over 7,100 municipal, federal, and industrial facilities discharging into the waters of the United States are tracked by PCS and IFD. If any industrial facilities discharges exist within the study area, a file in DBASE III+ format documenting a variety of information about each discharge accompanies this report on disk (See Appendices A and B).

The EPA DRINKS database identifies locations of drinking water supply intakes. This file contains data for 850 supplies which serve more than 25,000 people, and 6,800 supplies which serve between 1,000 and 25,000 people. If any drinking water intakes exist within the study area, a file in DBASE III+ format documenting a variety of information about each intake accompanies this report on disk (See Appendices A and B).

The GAGES data originates primarily with the USGS and copies are maintained on the EPA mainframe computer for ease of integration with other EPA national data systems. Although other agency's water gages, as well as some artificial gages, may appear in GAGES, the vast majority of gages are stream gages belonging to the USGS. The GAGES database contains approximately 36,000 records for both active and inactive gaging stations. If any USGS or other agency stream gages occur within the study area, a file in DBASE III+ format documenting several fields of information about each gage accompanies this report on disk (See Appendices A and B).

The Water Impoundment database was originally compiled by the U.S. Army Corps of Engineers in response to a Congressional inquiry on dam safety hazards (GKY and Associates 1990). The EPA subsequently modified the database for use in water quality investigations. Of the 68,155 dams in the database, 2,125 are considered large (impounding 10,000 acre feet or more at normal pool volume). It is important to note that while the database includes entries for 66,030 smaller dams, estimates place the actual number of dams in the U.S. at several million

(including small farm ponds). If any water impoundments occur within the study area, a file in DBASE III+ format documenting several fields of information about each impoundment accompanies this report on disk (See Appendices A and B).

The RF3 data system is a hydrologic database of surface water features across the U.S. (excluding, at present, Idaho, Oregon and Washington, which currently operate a different system - although this data is expected to be converted to RF3 soon, Alaska and Hawaii). RF3 was created primarily from 1:100,000 scale USGS Digital Line Graph data. RF3 is made up of over 3,000,000 individual "reaches". A reach is generally defined as a portion of surface water between two confluences (U.S. Environmental Protection Agency 1993). The linework underlying RF3 contains over 95,000,000 coordinate points. RF3 is designed to facilitate hydrologic routing, identifying upstream and downstream elements, and specifying the exact location of any point on a stream network. RF3 data exists as a series of traces with associated attributes. The EPA project which is producing RF3 is being conducted in three phases: Compilation, Assessment, and Revision. The Compilation phase is complete except for Idaho, Washington, Oregon, and Alaska. The Assessment phase was completed during the first half of 1994; while the Revision phase was begun in March 1994. One important outcome of the Revision phase is that the reach codes which uniquely identify each surface water feature will change. Consequently, these codes should not be used, at this time, as keys for relating other data to RF3. The RF3 data provided with this document is provisional and should be used only to provide a geographic backdrop for the park's water quality data. RF3 data covering each USGS catalog unit (a geographic area representing a single or multiple drainage basin(s), or some other distinct hydrologic feature (U.S. Geological Survey 1982)) touched by the park's study area is included in ASCII export and DBASE III+ formats on the disk(s) accompanying this report (See Appendices A and B).

For additional information on any of these data systems, contact the EPA Office of Water at (202) 260-7028.

Data Retrieval and Analysis Procedures

The six EPA data systems discussed above reside on the EPA mainframe computer located in Research Triangle Park, N.C. Horizon Systems used a dedicated, leased telephone line with a data transfer rate of 9600 bits per second to download data occurring within the park's study area from all the databases. The bisynchronous communication software and hardware provided error checking during all data transfer procedures.

As described above, the park study/query area boundary was used to select the water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and river reaches associated with the park unit. For various reasons, screening criteria (described later in this section) were employed to select appropriate water quality stations, parameters, and observations. Horizon Systems wrote several mainframe programs to automate, to the greatest extent feasible, the STORET data retrieval and storage procedures. Once the data were extracted from the EPA data systems, they were downloaded to a microcomputer for statistical analyses and reformatted into DBASE III+ compatible format.

Specifically, once on the PC, the data were processed to:

- (1) Reformat the data into DBASE III+ format and other database structures;
- (2) Eliminate questionable data outside the STORET edit criteria ranges (See Appendix C);
- (3) Display on a map the location of water quality monitoring stations and other water resources themes;
- (4) Determine the frequency of water quality observations by station, parameter, and station/parameter;
- (5) Generate descriptive period-of-record water quality statistics in a tabular format;
- (6) Generate appropriate descriptive annual and seasonal analyses of the water quality data in a tabular format;
- (7) Plot appropriate period of record time series and annual and seasonal box-and-whisker graphs;
- (8) Compare the water quality data against relevant EPA national criteria; and

- (9) Compare the water quality data against the NPS Servicewide Inventory and Monitoring Program's "Level I" water quality parameters.

Special customized microcomputer programs (primarily written in Clipper and Microsoft Professional BASIC) and procedures were created to address each of these tasks. All reformatted database files are included on disk(s) accompanying this document. The contents of these databases are described briefly below. Complete database structures are included in Appendices A and B. The descriptive water quality tabular statistics (see "Statistical Analyses" below) were computed based upon NPS specifications. Command or batch files were generated to drive STATGRAPHICS 7.0 in order to produce all the time series and box-and-whiskers plots.

Park Unit Databases

Up to seven digital databases in DBASE III+ and other formats have been created for the park by querying the water resources-related data sources described above. The disk(s) containing these databases accompany the report. The contents of each of these databases are discussed briefly below. More detailed documentation of these databases is included in Appendices A and B.

- (A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.
- (B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.
- (C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.
- (D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.
- (E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.
- (F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.
- (G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

The absence of any of these seven files from the disk(s) accompanying the report indicates that there was either no data of this type within the park's study area or the data was unavailable. Several other files are included on the disk(s) accompanying this report, including digital copies of all the figures and tables contained in the document and some other items. Refer to Appendices A and B for detailed documentation of these files. Not included on

disk is an Encyclopedia File (for WRD reference) that documents the minimum and maximum values for each water quality parameter and the parks in which those values were recorded. When Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks, this Encyclopedia File will be available upon request from the NPS WRD.

Screening Methodologies and Procedures

Developing automated or semi-automated procedures to produce baseline water quality inventories and analyses for all national park units required constant testing and debugging of procedures. Three parks, Rock Creek Park, Yellowstone National Park, and Indiana Dunes National Lakeshore, were used to pilot test and refine the automated procedures. It became evident, after a preliminary analysis of all the downloaded STORET data, especially for Indiana Dunes National Lakeshore, that the specifications for the graphical analyses could generate hundreds (possibly thousands) of plots, many of which would not necessarily be useful. Also, there were many stations; parameters; and/or observations downloaded that were not part of the study's objectives; not overly useful; or of dubious quality. In order to reduce the number of graphical plots (time series, annual and seasonal box-and-whiskers) to fit within project resources, various screening criteria were investigated. Ultimately, a comprehensive set of screening criteria were developed to reduce the number of graphical plots. After initial counts of the total number of possible time series and annual and seasonal box-and-whiskers plots were generated, these counts were used to decide which screening criteria would be applied to limit the number of these plots produced for the park unit. Additional screening criteria were employed to restrict the tabular descriptive statistics results to only those deemed useful to the park. Table A provides the categories of screening criteria and to which analyses the screens were applied. A "yes" entry in the table means that the screening category eliminated or prevented data from appearing in certain tables and plots contained in the document. Consequently, in understanding how data from STORET was used in this report, it may be helpful to keep in mind the three general types of screening criteria: (1) screens that apply to stations; (2) screens that apply to certain parameters at stations; and/or (3) screens that apply only to particular observations of parameters at stations. A detailed description of each of the screening criteria categories follows this table. *It is important to note that statistics in "Inventory" reports may not be consistent with statistics in "Overview" reports since different categories of screening criteria were applied.* Also, if attempting to replicate the results of the statistical and graphical analyses presented in this document, be sure to follow the same screening methodologies.

STORET Edit Criteria

As mentioned previously, STORET is a "user-beware" data system. As the EPA doesn't certify any data in STORET, public agencies enter and are responsible for the quality of their own data. Only data entered since November 1983 have been subjected to any rudimentary edit/bounds checking. Agencies entering data since this date can elect to override the edit/bounds checking for individual observations. USGS WATSTORE water quality data is entered into STORET without any EPA edit/bounds checking to ensure data integrity between WATSTORE and STORET. Unfortunately, during the course of our pilot tests, erroneous USGS and EPA water quality data values were discovered. In order to eliminate as much "bad" data as possible, all water quality data downloaded from STORET was subjected to automatic edit/bounds checking (STORET Edit Criteria contained in Appendix C) for the 190 most common parameters. Observations falling outside the STORET Edit Criteria were documented (See the Water Quality Observations Outside STORET Edit Criteria for Park section in the Water Quality Results chapter) and then retained or discarded from the database and all tables and plots based on whether the value was judged as being in the realm of possibility. Although the STORET Edit Criteria screen likely removed some "bad" data for these common parameters, the probability of other erroneous data in the database is high. Be sure to consult the Caveat section in the Introduction.

Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product):							
Screening Category	Data Download	Overview Tables	Inventory Tables	Annual Tables	Seasonal Tables	Standards Tables	Plots (All)
STORET Edit Criteria	yes	yes	yes	yes	yes	yes	yes
Date	yes	yes	yes	yes	yes	yes	yes
Station Type	yes	yes	yes	yes	yes	yes	yes
Phase 0 Parameter	yes	yes	yes	yes	yes	yes	yes
Phase 1 Parameter	no	no	yes	yes	yes	yes	yes
Media Type	no	no	yes	yes	yes	yes	yes
Remark Codes	no	no	yes	yes	yes	yes	yes
Composite Type	no	no	yes	yes	yes	yes	yes
Phase 2 Parameter	no	no	no	no	no	no	yes
Observations/Period of Record	no	no	no	yes	yes	no	yes

Date Screen

Every water quality observation in STORET typically has a sampling date associated with it. Unfortunately, STORET does not prevent users from entering incorrect dates. Consequently, any water quality observation with an incorrect and/or suspect date (eg. a month greater than 12; a day greater than 31; or a sample date later than the STORET retrieval date) were discarded.

Station Type Screen

STORET contains data from a wide variety of stations classified by the type of waterbody in which samples were collected. As this project's purpose was to inventory and analyze surface-water quality, the following surface-water station types were retrieved (clarification provided in parentheses):

Station Types Included In Retrieval

- (a) STREAM
- (b) CANAL
- (c) LAKE
- (d) RESERV (Reservoir)
- (e) SPRING
- (f) FWTLND (Fresh Water Wetland)
- (g) SWTLND (Salt Water Wetland)
- (h) ESTURY (Estuary)
- (i) OCEAN

Ground water and/or other station type data may have been retrieved if the entering agency classified the station type incorrectly. Rectifying this error was beyond the scope and resources of this project.

Phase 0 Parameter Screen

Nearly all water quality parameters associated with each station type listed above were retrieved. The only exception to this was the exclusion of most of the STORET administrative parameters. A complete list of STORET administrative parameters is included in Appendix D. The few administrative parameters that were included in the retrievals are as follows:

<u>Code</u>	<u>STORET Administrative Parameter Description</u>
00027	Code No. for Agency Collecting Sample
00028	Code No. for Agency Analyzing Sample
00063	Sampling Points, Number of In a Cross Section
00111	Ratio of Fecal Coliform to Fecal Streptococci
00115	Sample Treatment Code (1=Raw, 2=Treated)
34772	NPDES Number, Cross Reference
45580	Method of Analysis
74065	Stream Flow Class
74066	Annual Runoff
74067	Soil Classification
74068	Water Quality Designated Use Classification

Phase 1 Parameter Screen

Some of the data retrieved from STORET was not suitable for statistical or graphical analysis. Consequently, this screening criterion eliminated all parameters which were not suitable for statistical or graphical analysis within the context of this project. The full list of these parameters is presented in Appendix E. Examples of parameters excluded from statistical and graphical analysis include the administrative parameters mentioned above, land use acreage, encoded values, dates, latitude/longitude, etc. Excluded parameters do, however, appear in the Parameter Period of Record and Station/Parameter Period of Record (two of the "Overview" Tables), as well as in the water quality parameter file included on disk(s) accompanying this report.

Media Type Screen

Water quality samples can be taken in a variety of aqueous media. Water quality data were retrieved from STORET only if the media were WATER or VERT (vertically integrated). WATER and VERT samples comprise the overwhelming majority of samples in STORET. The media screen eliminated the following water quality sampling media:

<u>Media Screen</u>	<u>Description</u>
BOTTOM	Sampled At the Bottom
DREDGE	Sampled By Dredge
PORE	Pore Sample
CORE	Core Sample

Remark Code Screen

STORET enables the agency collecting water quality samples to provide a qualifying remark for each parameter observation. These remarks provide additional information about the measured or observed value entered into STORET (See Appendix B - Parameter Data File for a complete listing and description of all remark codes). Based on the STORET remark codes, two potential screens were applied to water quality observations based on whether the measured value was used in subsequent analyses: (1) Elimination or (2) Modification/Inclusion.

Elimination:

Non-composite water quality parameters with the remark codes presented in Table B were eliminated from the period of record, annual, and seasonal descriptive statistics and graphics. Not including observations with these remarks was justified by the fact that most of the remarks: (A) indicate either less confidence in the measured value; (B) are remarks for nominal or categorical data that doesn't lend itself to statistical analysis; or, (C) complicate the statistical analysis beyond the scope of this effort. Observations containing these remark codes comprise a very small fraction of the data. Although statistical analyses weren't undertaken on this data, all water quality observations, regardless of remark code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to eliminate all non-composite observations with the remark codes presented in Table B.

Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis:	
Remark Code	Description of STORET Remark Code
F	Female Species.
J	Estimated, Not the Result of Analytic Measurement.
M	Presence Verified, But Not Quantified, Below Quantification Limit. For Species, Male. For Oxygen Reduction Potential, Indicates Negative Value.
N	Presumptive Evidence of Presence.
O	Analysis Lost.
V	Analyte Was Detected In Sample and Method Blank.
W	Less Than Lowest Value Reportable Under Remark "T".
Z	Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value.

Modification/Inclusion:

Water quality parameter observations with the remark codes presented in Table C were halved prior to inclusion in period of record, annual, and seasonal descriptive statistics and graphics. These remark codes deal with observations that were below the detection limit for the parameter. The common water quality data analysis convention for these remark codes is to use half of the detection limit in statistical analyses (Ward, Loftis, and McBride 1990; Gilbert 1987). Although this is a somewhat defensible treatment of observations below the detection limit, the statistics that may be computed using these halved values may not be defensible. Consequently, any computed statistics in inventory, annual, or seasonal tables that are comprised of 50% or more K, T, and U remark codes are footnoted "Computed with 50% or more of the total observations as values that were half the detection limit." This will provide the user with some caution in using and interpreting these results. Water quality data included on disk(s) accompanying this report that may have these remark codes are stored as the original entry (detection limit). If you re-analyze this data in order to replicate the results presented here, be sure to substitute half the detection limit value in the database whenever these remark codes are encountered.

Table C. The Value of Water Quality Parameters With the Following Remark Codes Were Halved (Half of the Detection Limit Entered In STORET) Prior to Inclusion In Descriptive Statistics and Graphics:	
Remark Code	Description of STORET Remark Code
K	Off-scale Low, Actual Value Not Known, But Known to Be Less Than Value Shown.
T	Less Than Detection Criteria.
U	Analyzed For But Not Detected, Value is Detection Limit For Process Used. If Species, Undetermined.

Composite Type Screen

Sometimes data entered in STORET represent something other than a single measurement at one location at one point in time. These samples are typically referred to as composite samples due to the fact that they vary temporally and spatially. Consequently, the observation entered into STORET for composite data is typically a computed value that summarizes the data over time and/or space. Such data complicate statistical and graphical analyses and must be handled separately. Such treatment was beyond the scope of this study; although composite values typically represent only a fraction of STORET observations. The composite type screen eliminates all composite observations from statistical and graphical analyses, except those with a composite type code of "A" that have a one day or less sampling period and those with a composite type code "D". All water quality observations, regardless of composite type code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to exclude all composite observations except those with a code of "A" that have a one day or less sampling period and those with a code of "D". Table D presents a list of possible STORET composite type codes.

Table D. Possible STORET Composite Type Codes	
Composite Type Code	STORET Composite Type Description
A	Average
H	Maximum
L	Minimum
N	Number of Observations
#	Number of Observations
S	Standard Deviation
U	Sum of Squares
V	Variance
C	Coefficient of Error
X	Coefficient of Variance
E	Skewness
F	Kurtosis
Z	Number of Obs. That Exceed An Established Limit
%	Precision
\$	Accuracy
B	N/A
D	Indicates Replicate Sample

Phase 2 Parameter Screen

Due to budgetary limitations, the number of graphical plots (time series, annual and seasonal box-and-whiskers) produced had to be manageable - typically no more than 100 total plots. After scrutinizing the results of the pilot tests and the Baseline Water Quality Data Inventory and Analysis Reports produced for the first group of parks, the 19 parameters which, typically, were the most frequently measured at nearly all stations were water temperature, stage, discharge, and various meteorological measurements (See Table E). Consequently, most of the graphical plots produced would be of water temperature, stage, discharge, and meteorological conditions. Although these are important parameters, particularly in conjunction with other water quality parameters, it was felt that plotting resources would be better allocated to other water quality parameters. Consequently the STORET parameter codes listed in Table E never generated graphical plots. It is important to note, however, that these parameters are included in all other aspects of the project, including all applicable period of record, annual, and seasonal descriptive statistics tables.

Table E. Frequently Measured STORET Codes That Were Prevented From Generating Plots	
STORET Parameter Code	STORET Parameter Description
00003	Sampling Station Location, Vertical (Feet)
00010	Water Temperature (Degrees Centigrade)
00020	Temperature, Air (Degrees Centigrade)
00021	Temperature, Air (Degrees Fahrenheit)
00025	Barometric Pressure (MM of HG)
00032	Cloud Cover (Percent)
00035	Wind Velocity (Miles Per Hour)
00036	Wind Direction in Degrees from Trun N (Clockwise)
00040	Wind Direction (Azimuth)
00045	Precipitation, Total (Inches Per Day)
00046	Precipitation, Total (Inches Per Week)
00052	Humidity, Relative (Percent)
00061	Stream Flow, Instantaneous (CFS)
00065	Stream Stage (Feet)
81903	Depth of Bottom of Water @ Sample Site (Feet)
82553	Rainfall In 1 Day Inclusive Prior to Sample (Inches)
82554	Rainfall In 7 Days Inclusive Prior to Sample (Inches)
82371	Rainfall In 3 Days Inclusive Prior to Sample (Inches)
82372	Rainfall In 14 Days Inclusive Prior to Sample (Inches)
85599	Precipitation, Total/Period-Rain Equivalent (Cm/Sample)

Observations/Period of Record Screen

Despite never plotting water temperature, stage, discharge, and meteorological measurements, the number of plots generated by some parks still exceeded the 100 plot limit. Also, some rationale was needed to plot only those parameters with sufficient data density to make a meaningful statistical graphic. For example, time series plots comprised of only a few observations or annual or seasonal box-and-whiskers plots with limited observations and/or data in only one or two years or seasons are not very informative. Consequently, a number of plotting criteria were developed to limit the number of time series and box-and-whiskers plots to, at most, 100 informative graphics by using each parameter's number of observations and period of record. Similar, albeit less stringent criteria, were used for including results of annual and seasonal analyses in descriptive statistics tables. Consequently, there are more summaries of annual and seasonal results in tables than in graphics. Whenever an entry in an annual or seasonal table generated a plot, this entry was footnoted to notify the reader of the presence of the graphic. Due to differing quantities of data at parks, different screening criteria were employed. The same

criteria for appearance in seasonal and annual tables were used for all parks. Table F presents the least stringent plot screens.

Table F. Least Stringent Plot Screening Criteria Used to Limit the Number of Plots Generated

Time Series: To generate a time series plot, a station/parameter combination must have a period of record of at least 2 years and a total of at least 8 observations. Annual Analysis: To generate an annual box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive. Seasonal Analysis: To generate a seasonal box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

The exact three plot screens used varied by park unit and are documented in the Overview section of the Water Quality Results chapter. If your park's plotting criteria deviated from these least stringent criteria, it is because too many plots would have been generated using these criteria.

The criteria used for appearance of station/parameter combinations in annual and seasonal analysis tables are presented in Table G. These tabular criteria, which are actually the least stringent plotting criteria, were constant from park to park.

Table G. Criteria Used for Generating Entries in Annual and Seasonal Analysis Tables

Annual Analysis: For an entry to appear in an annual table, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive. Seasonal Analysis: For an entry to appear in a seasonal table, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

Statistical Definitions

Since this report is intended only to characterize historical and/or existing water quality at the park rather than address specific water quality problems, only simple descriptive statistics are presented. Inferential and non-parametric statistical analysis to examine relationships and trends were beyond the scope of the study. The complete water quality dataset is provided on disk accompanying this report to afford the opportunity for more detailed exploratory data analysis. The descriptive statistics are included in the inventory, annual, and seasonal tables. Table H provides a brief definition of each descriptive statistic provided for each parameter at a station.

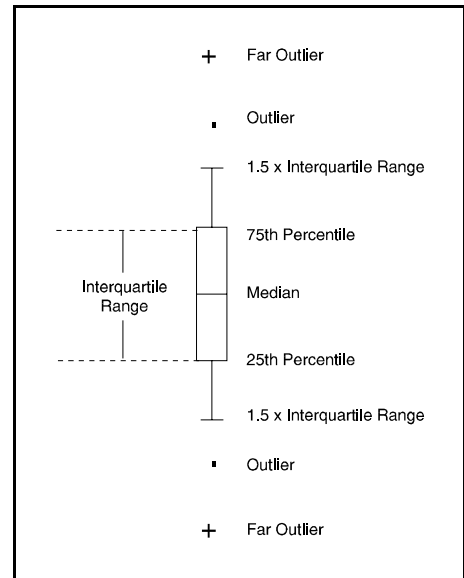
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

Observations:	The number of samples collected.
Median:	The median is the 50th percentile or the value in a dataset sorted in ascending order that exceeds 50% of all observations, yet is also exceeded by the remaining 50% of all observations.
Mean:	The sum of all observations collected divided by the number of observations.
Maximum:	The maximum value observed.
Minimum:	The minimum value observed.
Variance:	This is a measure of variability or dispersion of the observations; or, in other words, describes how many observations are close (or far), from the mean. It is calculated as the weighted average of the squared deviations from the mean.
Standard Deviation:	The positive square root of the variance.
10th Percentile:	The value in a dataset sorted in ascending order that exceeds 10% of all observations, yet is itself exceeded by the remaining 90% of all observations.
25th Percentile:	The value in a dataset sorted in ascending order that exceeds 25% of all observations, yet is itself exceeded by the remaining 75% of all observations. The 25th percentile is also known as the first quartile.
75th Percentile:	The value in a dataset sorted in ascending order that exceeds 75% of all observations, yet is itself exceeded by the remaining 25% of all observations. The 75th percentile is also known as the third quartile.
90th Percentile:	The value in a dataset sorted in ascending order that exceeds 90% of all observations, yet is itself exceeded by the remaining 10% of all observations.

As with the tabular descriptive statistics, the scope of the project limited the generation of exploratory graphics to time series plots and annual and seasonal box-and-whiskers plots. Plots were only generated, however, provided the parameter met or exceeded the relevant plotting criteria specified in the previous section.

Time series plots display the parameter concentration on the Y-axis and the date on the X-axis. This provides the user with a visual feeling for not only the parameter's concentration and variability over time, but also the density of data in different time periods. The time series plots provide a visual representation of the data in the basic station inventory. Due to software limitations, a line connects each measured value in sequence regardless of the time period between samples. Readers are cautioned not to assume that the concentration of the parameter between any two data points can be represented by a straight line. It is likely that the concentration varied between any two observations, particularly if the observations are separated by a significant time period.

The annual and seasonal box-and-whisker plots provide a graphical overview of the measured data and give the user a better understanding of the data's distribution and possible outliers. In essence, the box-and-whisker plots provide a visual representation of the data contained in the annual and/or seasonal tables. The interpretation of the boxes is provided in the figure to the right. Each box encompasses the middle 50 percent of measured values (from the 75th to 25th percentiles). The difference between the 75th and 25th percentiles is also known as the interquartile range. The horizontal line inside each box is the median or 50th percentile. The lines which extend out from each end of the box are the whiskers. The whiskers extend out from first quartile (25th percentile) and third quartile (75th percentile) to the smallest data point within 1.5 interquartile ranges from the first and third quartiles. Observations that extend beyond the whiskers are known as outliers. Far outliers are observations whose values lie more than three interquartile ranges below the first quartile or above the third quartile. These are designated with plus signs.



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

This interpretive guide discusses each of the products presented in the next chapter - Water Quality Results. This chapter highlights how each of the tables and figures were prepared and how they can be used. Each subheading in this chapter corresponds to a particular product in the subsequent Water Quality Results chapter.

Overview

The Overview provides a brief one-page summary of the results of the various database retrievals for both the study area and the park. The study area results include the park results since the study area encompasses the park and all lands and waters within at least 3 miles upstream and 1 mile downstream of the park. Thus, the GIS estimated acreage of the study area should always be greater than the park acreage. The park acreage was computed from the digital boundary that was obtained for the park. More than likely this acreage will differ, perhaps significantly, from the "official" published acreage for the park due to the spatial and temporal accuracy of the digital boundary, treatment of inholdings, and other concerns. The number of STORET stations is the number of locations within the study area and park where an agency monitored (or intended to monitor) water quality. The number of stations with no data reveals the number of stations created in STORET for which water quality data were never entered. The number of stations with no statistical analysis reports the number of stations in the study area and park that contain data not amenable to normal parametric statistics. The number of longer term stations indicates the number of stations in the study area and park with at least 6 parameters having periods-of-record extending 2 years with an average of at least 1 observation per year over the period-of-record. The date of STORET retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. Thus, the report documents all data entered in STORET prior to the retrieval date. Keep in mind that an agency can upload archival data at any time. Consequently, a retrieval date only guarantees that as of that date, this report contains all the data that had been entered into STORET. The period of record is the earliest date for which water quality data exist in STORET for the study area and park up to the date when the most recent data were entered prior to the retrieval date. The number of parameters measured is the number of unique water quality parameters measured within the study area and park and entered in STORET. The number of water quality observations is the sum of the total number of observations across all parameters within the study area and park. The number of industrial/municipal facilities discharges, drinking water intakes, water gages, and water impoundments are the number of each of these entities found within the study area and park. The number of time series, annual, and seasonal plots are the number of these different types of graphics produced by station/parameter combinations within the study area and park using the plotting criteria described in the previous chapter. The hydrologic seasons, described below, are the seasons used for the seasonal water quality data analysis. The time series, annual, and seasonal criteria are the plot and tabular screening criteria described in the previous chapter.

Regional Location Map

The Regional Location Map provides a small scale, general representation of the park and study area location within the United States. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report.

Water Quality Monitoring Locations Map(s)

The Water Quality Monitoring Locations Map(s) usually provides a larger scale representation of the park and study area than the Regional Location Map. This map indicates the locations within the study area where water quality has been monitored and the data entered into STORET. The water quality monitoring stations are labelled sequentially with the rightmost significant digits. The station names were assigned in numerically ascending order by latitude (for parks with a greater north-south extent than east-west) or longitude (for parks with a greater east-

west extent than north-south). Thus, this map serves as a visual index to the water quality data contained in the report. Since the 1:100,000 scale hydrography (from the River Reach File Ver. 3.0 or other sources) is displayed on the map, users can refer to the map to locate the station number on the reach in which they are interested and then find the appropriate section in the report that documents the water quality at that station. If the scale allows, USGS catalog units are also displayed on the map to provide an approximation of drainage basins. More than one Water Quality Monitoring Location map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report. The digital, geo-referenced data files documented in Appendices A and B will allow the park to create water quality monitoring stations as a coverage in their GIS.

Dischargers, Drinking Intakes, Gages, and Impoundments Map(s)

The Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) displays the same information as the Water Quality Monitoring Location Map(s) except the water quality stations are replaced by industrial/municipal facilities discharges, drinking water intakes, active and inactive gage locations, and water impoundments. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, gage, or impoundment. This number can then be used to obtain additional information about the entity on the following page of the report or to refer to the more detailed database files accompanying the report on disk. These more detailed database files are geo-referenced (See Appendices A and B), thus allowing the park to create these coverages in their GIS. More than one Dischargers, Drinking Intakes, Gages, and Impoundments map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are also included on the disk(s) accompanying this report.

Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table

This table provides some additional information about each of the discharges, drinking intakes, water gages, and water impoundments displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address or some other indication of location; and some other pertinent information. More detailed information about each of these entities is contained in the database files on disk accompanying the report (See Appendices A and B).

Representative Mean Annual Hydrograph for Seasonal Analysis

One component of the water quality data analysis contained in the document is a seasonal analysis of the data (where adequate data exist). In order to undertake this analysis, some representation of the park's seasons was required. Seasons can be based on many factors (eg. hydrologic, climatic, recreational use, etc.). Since project resources did not allow us to contact every park and discuss with resource management staff what appropriate seasons may be for the park, WRD staff elected to adopt primarily a hydrologic/climatic definition of the seasons which uses a process of hydrograph separation to glean seasons from stream discharge patterns. The procedure employed to make these determinations was as follows:

- (1) Find the nearest USGS Hydro-Climatic Data Network (HCDN) station (U.S. Geological Survey 1992) to the park that is most representative of streamflow conditions at the park. The HCDN is basically a subset of USGS streamflow stations, including only those stations that are unaffected by artificial diversions, storage, or other disruptions of the natural channel. All HCDN stations generally have at least a 20 year period of record. Consequently, discharge patterns at these stations should reflect only hydrologic and climatic influences. For the most part, selected HCDN sites were typically within 15-20 miles of the park. In some parks where WRD staff were aware of the existence of a stream gage located within the park that would be more representative of park waters even though it wasn't an HCDN site, this gage was selected.

- (2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.
- (3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

This approach, used for the majority of parks, assumes that most water quality data at the park will be found in streams and that the discharge pattern of the selected stream is representative of the seasons for all park waterbodies. Although this assumption may be weak for certain parks, project resources did not allow a more thorough investigation. For parks where there wasn't any stream gage (HCDN or otherwise) deemed representative of park waters, precipitation records from a nearby meteorological station were obtained from the National Climatic Data Center. Plotting daily average precipitation and box-and-whiskers of monthly precipitation sums allowed WRD hydrologists to make a rough approximation of climatic seasons for use in analyzing the water quality data.

Again, it is important to note the many ways of defining "seasons" and thus the limitations of the seasonal analysis contained in this document. For certain parks it may be more useful to perform a seasonal analysis with seasons defined by recreational use patterns or some other natural or anthropogenic factor. This option is available to the park since all the water quality data analyzed in this document is contained on disk(s) accompanying this report. Digital, reproducible copies of this seasonal analysis graphic are also included on the disk(s) accompanying this report.

Contacts for Agency Codes Retrieved

This table provides a list of the organizations who have entered data into STORET. A contact name at the organization and a phone number are also supplied. The agency code in the first column is the key for identifying which stations belong to that agency. This code will appear in the first line of each station's inventory. Although the agencies listed in this table are potential partners for future water quality monitoring or management endeavors, don't be surprised if the name of the contact and/or the telephone number is out of date. This information is entered when an agency first creates a station. The agency may not update this information when the initial contact moves on or the telephone number changes. Nonetheless, it is likely that the contact or someone else at the agency may be able to provide you with project reports or other information relative to the agency's data. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Quantity of Data Retrieved by Agency Code

This table displays the period-of-record; numbers of water quality stations, longer-term stations, and stations without data; total number of water quality observations; and the number of unique water quality parameters measured by each agency within the study area and park boundary. Using this table, a park can quickly determine which agencies collect the most data in and around the park and whether they have monitored recently. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station Period of Record Tabulation

The Station Period of Record Tabulation provides a quick overview of the names of all the stations within the study area where water quality has been monitored and data entered into STORET. It also furnishes the total number of observations taken at each station and the frequency of observations between certain dates: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75. The station identification number, the four character park abbreviation code followed by a four digit number, provides the means to jump from a particular station in the table to the statistical and graphical analyses for this station contained in the Station-By-Station Results section. The Station Period of Record Tabulation reveals which water

quality stations were situated within the park as defined by the park's GIS boundary. The Station Period of Record Tabulation also footnotes longer-term water quality stations. Longer-term stations are those that have at least 6 parameters with an average of one or more observations per year for those parameters during a period of record extending at least two years. Note that although a station may not be flagged as longer-term, it can still harbor much important data (albeit for only a few parameters or over a very long term with just a few observations). A digital copy of this table accompanies this report on disk (See Appendices A and B).

Parameter Period of Record Tabulation

The Parameter Period of Record Tabulation provides a complete listing of every water quality parameter ever measured in the study area and entered into STORET. This table is a summation of all the water quality observations for each parameter across all stations in the study area. Like the Station Period of Record Tabulation, the total number of observations for each parameter and the frequency of observations between: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75 are provided. This table is handy for quickly assessing whether particular parameters have been measured in the study area. The Parameter Period of Record Tabulation also shows how many in-park (and total) water quality stations contained data for each parameter. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station/Parameter Period of Record Tabulation

The Station/Parameter Period of Record Tabulation combines the information found in the Station Period of Record Tabulation and the Parameter Period of Record Tabulation. This table provides a listing of all the stations where a particular water quality parameter was measured in the study area and the data entered into STORET. The table provides the start and end dates of the period of record of each parameter at each station; the number of years of measurement (computed from the start and end dates); whether the station/parameter combination occurred within the park boundary; the total number of observations for each parameter at each station, and whether a time series (T), annual (A), and/or seasonal (S) plot was generated for the station/parameter combination in the Station-By-Station Results section. This table is very useful when you need to determine at which locations within the study area (or park) particular parameters were monitored and how much data was collected there. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Station/Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station-By-Station Results

Probably the most voluminous portion of the document is the Station-By-Station Results. Here the results of the water quality analyses for each station are presented in sequence. The results include the station inventory; parameter inventory; EPA water quality criteria analysis; and, as applicable, time series graphics and annual and seasonal tables and box-and-whiskers graphics. Each of these products are discussed below.

Station Inventory for Station

Each station's data commences with its Station Inventory. The Station Inventory provides the descriptive attributes about each water quality monitoring station contained in STORET. This includes a variety of locational information such as a verbal description, the Federal Information Processing codes for county and state, latitude and longitude, and other items; the station type (stream, spring, estuary, etc.); monitoring agency; creation date; indices to the River Reach File; whether the station lies within the park boundary; and several other attributes. This water quality station location data is also contained on disk(s) accompanying the report (See Appendices A and B).

Parameter Inventory for Station

Following the descriptive attributes about a station is the Parameter Inventory for the station. The Parameter Inventory provides a complete inventory and descriptive summary of all the water quality parameter data for the station. This table furnishes the parameter STORET code and name; the period of record for this parameter at this station; and the descriptive statistics defined in the Statistical Definitions in the previous chapter. Three different footnotes can appear on a parameter's descriptive statistics. Two asterisks (**) in the 10th, 25th, 75th, or 90th percentile columns indicates that there was insufficient data to compute these statistics for this parameter. Percentiles were not computed unless the parameter had at least 9 observations. Two number signs (##) next to the number of observations indicates that more than 50 percent of the observations entered into the computations as values that were taken to be half the detection limit. Caution should be employed in interpreting and using statistical results when more than half the values are set to half the detection limit. The letter "p" following a numeric STORET parameter code in the Parameter Inventory indicates that a time series plot was produced for this parameter at this station. Digital, reproducible copies of the Parameter Inventory tables are contained on the disk(s) accompanying this report.

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from $\mu\text{eq/l H}^+$; and (3) $\mu\text{eq/l H}^+$. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to $\mu\text{eq/l H}^+$ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu\text{eq/l H}^+$, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

Whenever a bacteriological parameter appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original bacteriological entry; (2) an entry computed using the log of each measured value; and (3) an entry that simply reports the geometric mean. The reason for converting to logs and displaying the geometric mean is convention. Bacteriological water quality standards typically reference the geometric mean rather than the arithmetic. The three bacteriological entries in the descriptive statistics tables will all have the same STORET code.

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. In most cases, the EPA water quality criteria values are single sample concentrations that can be directly compared to single sample STORET entries. There are, however, two notable exceptions to this single sample/single value comparison: ammonia and fecal-indicator bacteria. For these two parameters, criteria are either derived from or depend on the results of other chemical characteristics of the water or require a time series statistical treatment of multiple samples to determine whether the criterion has been exceeded. The EPA ammonia criterion is pH and temperature dependent. To calculate the criterion for each ammonia sample value was beyond

the scope of this project. Consequently, ammonia criteria were not included in Appendix F or the EPA Water Quality Criteria Analyses. Un-ionized ammonia criteria can be determined from formula table values included in the EPA Silver Book (Environmental Protection Agency 1995).

For the purposes of this project, fecal-indicator bacteria data were flagged as exceeding criteria when their concentrations exceeded 200, 1000, 126, and 33 (fresh)/35 (salt) colony forming units or most probable number for single samples of fecal coliform, total coliform, E. coli, and enterococci, respectively. These values represent only approximations of the criteria for primary contact recreation waters where criteria are typically expressed in terms of a geometric mean computed with no less than 5 samples during a given month. When a fecal-indicator bacterial observation exceeds a criterion in the EPA Water Quality Criteria Analysis section, the reader should refer to the corresponding geometric mean calculations in the preceding Parameter Inventory. Long-term geometric means that exceed the respective water quality criteria for multiple samples are more indicative of chronic bacteriological problems than single sample values.

Water quality observations carrying non-detection or below-detection limit remark codes (K, T, and U) required special treatment in the EPA Water Quality Criteria Analysis. As with the statistics in the Parameter Inventory, half the detection limit was the value used in the EPA Water Quality Criteria Analysis. For certain observations, however, half the detection limit may exceed a water quality criterion. For those observations it would be inappropriate to classify them as exceeding a criterion since the actual value wasn't known. Thus, it was decided that any below detection limit or non-detect observations that exceed a water quality criterion using half the detection value would be excluded from the EPA Water Quality Criteria Analysis. If non-detect or below detection limit values are excluded from the EPA Water Quality Criteria Analysis for a particular parameter, the total observations for that parameter will be footnoted with an ampersand (&). This will also explain the difference between the total observations in the Parameter Inventory and the EPA Water Quality Criteria Analysis. Non-detect or below detection limit values are included in the EPA Water Quality Criteria Analysis, however, if half the detection limit doesn't exceed the parameter's criterion.

The EPA Water Quality Criteria Analysis for each station lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis table is a good starting point for assessing potential water quality problems at the station, the reader is strongly encouraged to read the caveat section in the Introduction concerning drawing conclusions about water quality problems from this table. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Time Series Plots for Station

Following the EPA Water Quality Criteria analysis will be any Time Series Plots for each parameter that met the time series plot screening criterion selected for the park unit. If a time series plot is generated for a particular parameter at a station, a "p" will appear next to the STORET parameter code in the Parameter Inventory. If no time series plots are present for the particular station, the data did not meet the time series screening criterion listed in the Overview section of the Water Quality Results chapter. The x-axis on these plots is the period of record, listing only the 2-digit calendar year for clarity (i.e. 1983 is presented as 83). The y-axis is the concentration of the selected parameter in its measurement units. In general, the units for a given parameter are given either on the y-axis or in the parameter description in the subtitle of the graph. Subtitle and/or y-axis parameter descriptions may be truncated on the plots so as to not exceed the maximum number of plotting characters. Y-axis values less than zero are sometimes shown for better representation of the entire plot. The station identification code, parameter description, and parameter STORET code are presented in the main title. The footnote provides a descriptive location name. Observations on the plot are represented as squares. Lines are drawn connecting each successive observation. As mentioned previously in the Statistical Definitions section of the Methodology chapter, the interconnecting line is drawn only for ease of reading and provides no indication of what the actual parameter

values were between the two observed measurements. Digital, reproducible copies of all time series plots accompany the report on disk (See Appendices A and B).

For time series plots of pH, the original pH values are plotted. For time series plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a time series plot for bacteriological parameters is log-linear.

Annual Analysis for Station

If more than 9 observations exist in each of at least 4 years for a particular parameter at a station, an Annual Analysis table will be generated. Entries will be made in the table for each parameter having more than 9 observations in each of at least 4 years. The Annual Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by year, rather than the entire period of record. Although some of the years may not contain 9 observations, these years still have an entry in the table. A parameter needs only to have 9 observations in any 4 years of its period of record to qualify for the Annual Analysis table. Like the Parameter Inventory, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Annual Analysis table that also meet the annual analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Annual Box-and-Whiskers Plots for Station

Entries in the Annual Analysis table that meet the annual box-and-whisker plot screening criterion will generate Annual Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each year of the period of record, even if less than 9 observations were recorded in the year. The axis labeling and plot titling is the same as for the time series plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For annual box-and-whiskers plots of pH, $\mu\text{eq/l H}^+$ are plotted. For annual box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of an annual box-and-whiskers plot for bacteriological parameters is log-linear.

Seasonal Analysis for Station

As explained above, a park's hydrologic seasons for seasonal water quality analysis were determined using a process of hydrograph separation and other techniques. If a parameter has more than 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years, a Seasonal Analysis table will be generated for the station. The Seasonal Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by season, rather than the entire period of record. Although certain parameters for a season at a station may not contain 9 observations, these parameters can still have an entry in the table. A parameter needs only to have 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years to qualify for the Seasonal Analysis table. Consequently, some of the parameters could have fewer than 9 observations in a particular season but still generate a table entry. Like the Parameter Inventory and Annual Analysis, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Seasonal Analysis table that also meet the seasonal analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Seasonal Box-and-Whiskers Plots for Station

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are labeled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labeled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labeling and plot titling are the same as for the time series and annual box-and-whiskers plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For seasonal box-and-whiskers plots of pH, $\mu\text{eq/l H}^+$ are plotted. For seasonal box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a seasonal box-and-whiskers plot for bacteriological parameters is log-linear.

EPA Water Quality Criteria Analysis for Entire Park Study Area

This table essentially summarizes all the individual station-by-station EPA water quality criteria analyses in the study area. (Refer to the EPA Water Quality Criteria Analysis for Station section above for more detailed information on the treatment of special cases in the EPA Water Quality Criteria Analysis for Entire Park Study Area.) This table presents a comparison between the study area's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. The EPA Water Quality Criteria Analysis for the Entire Park Study Area lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis for the Entire Park Study Area is a good starting point for assessing potential water quality problems at the park, the reader is strongly encouraged to read the caveat section in the Introduction before drawing conclusions about water quality problems from this table. A digital, reproducible copy of this table accompanies the report on disk (See Appendices A and B).

NPS Servicewide Inventory and Monitoring Program

Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

One of the objectives of this Baseline Water Quality Data Inventory and Analysis project is to perform an IDEA - an Inventory Data Evaluation and Analysis - to determine the presence and/or absence of Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in the park's study area. The Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service (National Park Service 1993) identified the basic water quality parameters displayed in Table I as the parameters that all parks must have for "key" waterbodies (determined on the basis of size, uniqueness, threats, etc.) within park boundaries. Since these parameters can be measured in different ways and with different units, there are multiple STORET codes associated with each parameter; hence the concept of parameter groups. The Strategic Plan distinguishes between those parameter groups required for all parks and parameter groups required only on a case-by-case basis.

The IDEA basically compares the parameters listed in the Parameter Period of Record Tabulation and Station/Parameter Period of Record Tabulation with the "Level I" Servicewide Inventory and Monitoring water quality parameter groups, listed in Table I and in Appendix G, and notes, not only the presence or absence of each parameter group, but the total number of observations for each parameter present in the group; the number of

observations between certain time periods; and the total number of stations within the study area at which the parameter was measured. The total number of different (unique) stations measuring parameters for the group is in parentheses on each parameter group's summary line.

The first page of the IDEA lists the missing Servicewide Inventory and Monitoring Program "Level I" groups. If a parameter group appears on this list, no data for any of the parameters defining the group (See Appendix G) was retrieved for it within the study area. So-called non-priority parameter groups may appear in the missing list. Non-priority parameters are park-specific parameters (case-by-case) which may not be applicable to your park. Consequently, if you believe a particular parameter, not included in IDEA (See Appendix G), to be important for your park, you will have to consult the Parameter and Station/Parameter Period of Record Tabulations to determine the presence or absence of this parameter for the park. Although considered a "Level I" parameter, biological data, obtained through rapid bioassessment or other means, is not considered in this report which deals specifically with surface water chemistry. Following the Missing Level I Group list is the Present Level I Group list which displays the summary results for each Servicewide Inventory and Monitoring "Level I" water quality parameter group that was found.

Table I. Basic "Level I" Water Quality Parameters Identified as Required and Optional By the Servicewide Inventory and Monitoring Program for "Key" Park Waterbodies

<u>Required Parameter Groups:</u> (1) Alkalinity (2) pH (3) Conductivity (4) Dissolved Oxygen (5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates) (6) Temperature (7) Flow <u>Case-By-Case Parameters Groups:</u> (8) Toxic Elements (9) Clarity/Turbidity (10) Nitrate/Nitrogen (11) Phosphate/Phosphorus (12) Chlorophyll (13) Sulfates (14) Bacteria

The last page of the IDEA summarizes the information from the Missing and Present Level I Group lists. This page provides information on the temporal and spatial distributions of the data. Included in this table are the total number of observations for each parameter group; the number of observations since January 1, 1985; the percent of the total observations since January 1, 1985; the number of stations measuring each parameter group; the percent of the total number of stations with data measuring the parameter group; the number of observations per station with data; the period-of-record for this parameter group; and the average number of observations per year of the period-of-record.

In interpreting the results of the IDEA, the reader should first consult the Missing Level I Group list. For the parameter groups listed, there was no baseline water quality data within the study area entered in STORET. Consequently, these parameter groups could be a higher priority for data collection. It is important, however, to realize that data within these parameter groups may have been already collected but not entered into STORET. The resources for this project did not enable us to pursue thorough literature and file cabinet reviews to dredge up

every last iota of data. If data exists for certain Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in a park's file cabinet, it is the park's responsibility to factor that data into their IDEA. Consequently, the listing of a parameter group on the Missing "Level I" Group list is not a WRD endorsement to launch a study to collect these data. The IDEA is intended to simply note that no data exist for these parameter groups in STORET for the park. It is the park's responsibility to ascertain whether such data has already been collected by the park or other entities before embarking on a new study. In fact, in the future the WRD will require that any park study plan proposing to collect baseline water quality data show that they have consulted their Baseline Water Quality Data Inventory and Analysis report and searched in other locations (file cabinets, published literature, etc.) for the data they propose to collect. A similar interpretation springs from the Present "Level I" Group list. Insufficient data density in certain time periods for particular parameter groups is not necessarily cause for launching a new inventory and/or monitoring program. The park should still consult with other potential sources of data. Again, the IDEA is designed to provide only a quick check on data in STORET for the Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups.

Water Quality Observations Outside STORET Edit Criteria for Park

STORET data entered after November 1983 were subjected to rudimentary edit/bounds checking for 190 common parameters (See the STORET Edit Criteria in Appendix C). None of the data entered into STORET prior to that time has been subjected to edit/bounds checking. Moreover, to maintain exact comparability with USGS WATSTORE data, WATSTORE data entered into STORET has never been subjected to the EPA edit/bounds checking. During the pilot test phase of this project, obviously incorrect data was identified from both USGS and other agency data in STORET. As a consequence, all data downloaded from STORET was filtered through the STORET edit criteria to identify parameter observation values that fall outside any edit criterion ranges. This section documents the station name, parameter, date, time, parameter value, agency, and STORET station name of every observation that fell outside the range of an edit criterion. Not all data falling outside an edit criterion are necessarily incorrect. Such data may represent unique or special conditions. Consequently, every observation falling outside a STORET edit criterion was scrutinized to determine, in our best professional judgement, whether the value was in the realm of possibility or obviously incorrect. Water quality observations that appeared to be obviously incorrect are marked with an "X" in the Disposition column of this table. These values were not retrieved or included in any of the inventory tables or graphs. Water quality values outside a STORET edit criterion but within the realm of possibility were retained and included in inventory tables and graphs. The Water Quality Observations Outside STORET Edit Criteria for Park table documents all values that were outside an edit criterion range. This documentation is also necessitated by the fact that agencies can override the STORET edit criteria for individual observations. Although the edit criteria eliminate some potentially "bad" data from the report, the probability of other incorrect data, for both the 190 parameters that are edit/bound checked and all the other STORET parameters that aren't error checked, is high. Readers should consult the Caveat section in the Introduction for guidelines on the use and interpretation of STORET data. The responsibility for correcting these observations rests with the collecting agency.

WATER QUALITY RESULTS

OVERVIEW FOR SLBE

Study Area Boundary Description

The study area includes the park and all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

	<u>Study Area</u>	<u>Park</u>
GIS Estimated Acreage:	422122	69851
# STORET Stations:	149	76
# Stations With No Data:	10	1
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	60	36
Date of STORET Retrieval:	12/12/96	12/12/96
Period of Record:	06/07/62-10/01/96	06/17/68-08/10/95
# Parameters Measured:	294	199
# Water Quality Observations:	51317	12629
# Industrial/Municipal Facilities:	3	0
# Drinking Water Intakes:	0	0
# Water Gages:	4	1
# Water Impoundments:	12	0
# Total Plots:	132	4
# Time Series:	54	0
# Annual:	29	4
# Seasonal:	49	0

Hydrologic Definition of Seasons:

1. August 1 - November 30
2. December 1 - February 29
3. March 1 - April 14
4. April 15 - July 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 10 years and at least 40 observations.

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 6 years.

To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

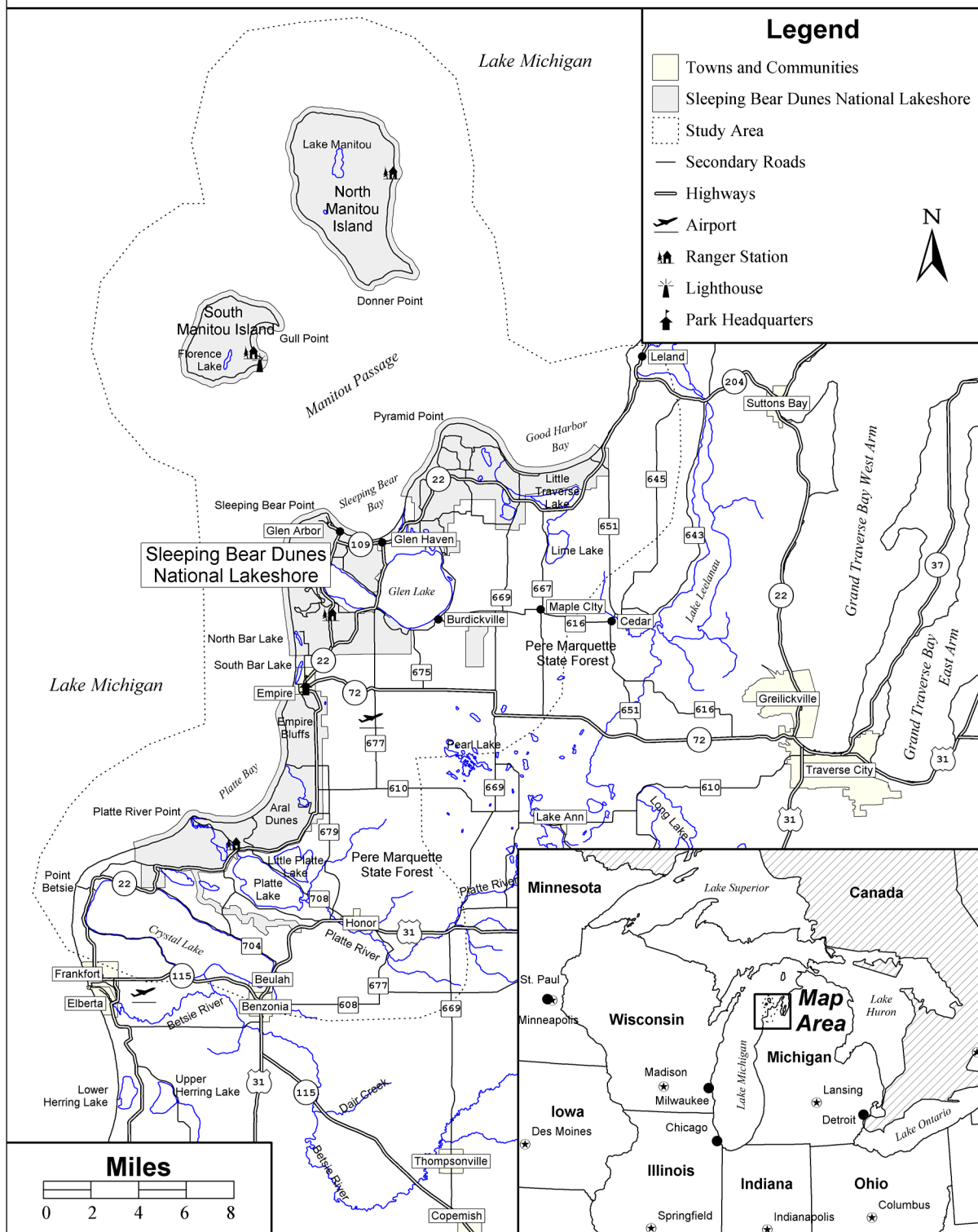
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 10 years and observations in at least 4 of the 10 years.

To be included in the seasonal analysis tables, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.

Sleeping Bear Dunes National Lakeshore

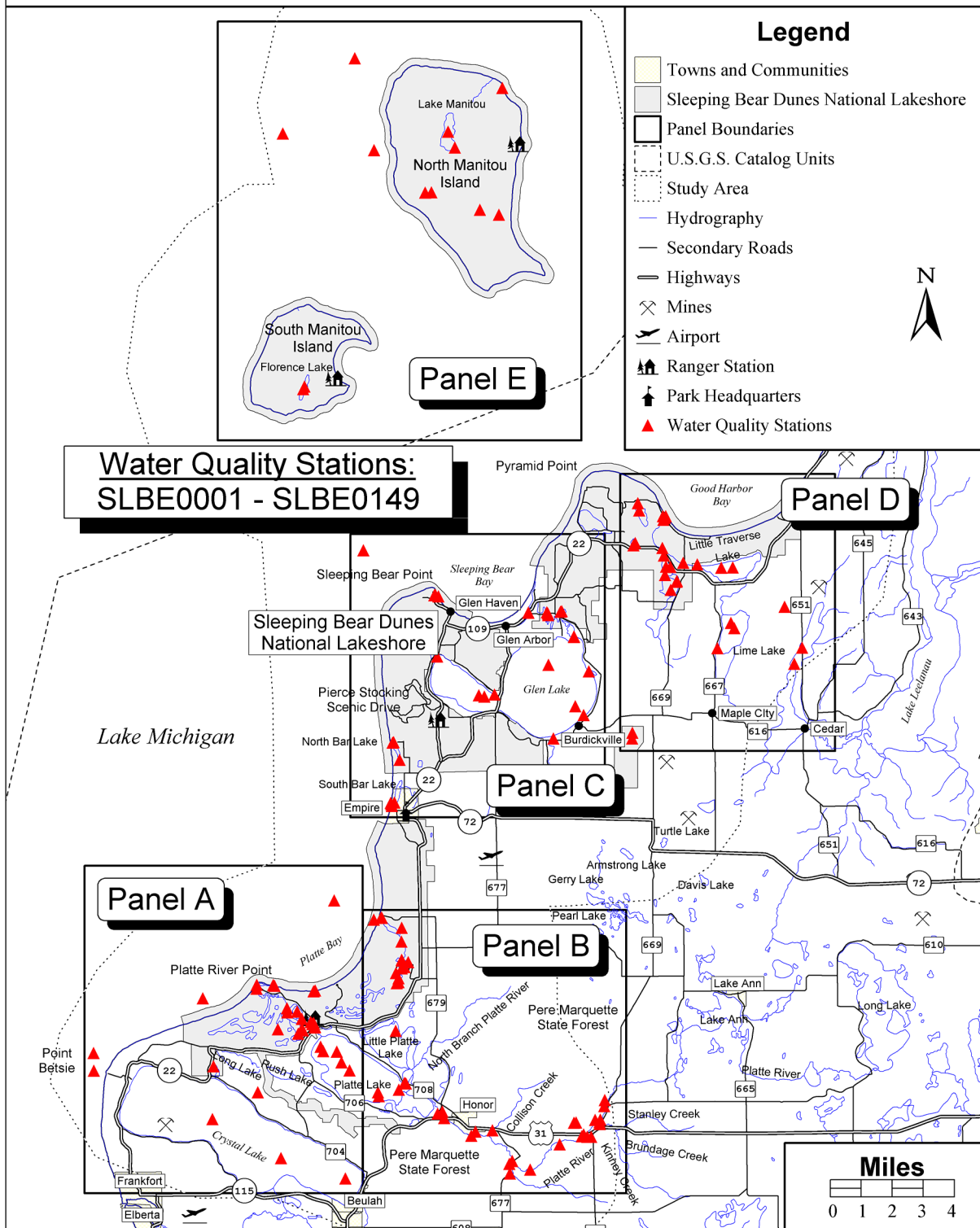
Regional Location Map



Sleeping Bear Dunes National Lakeshore

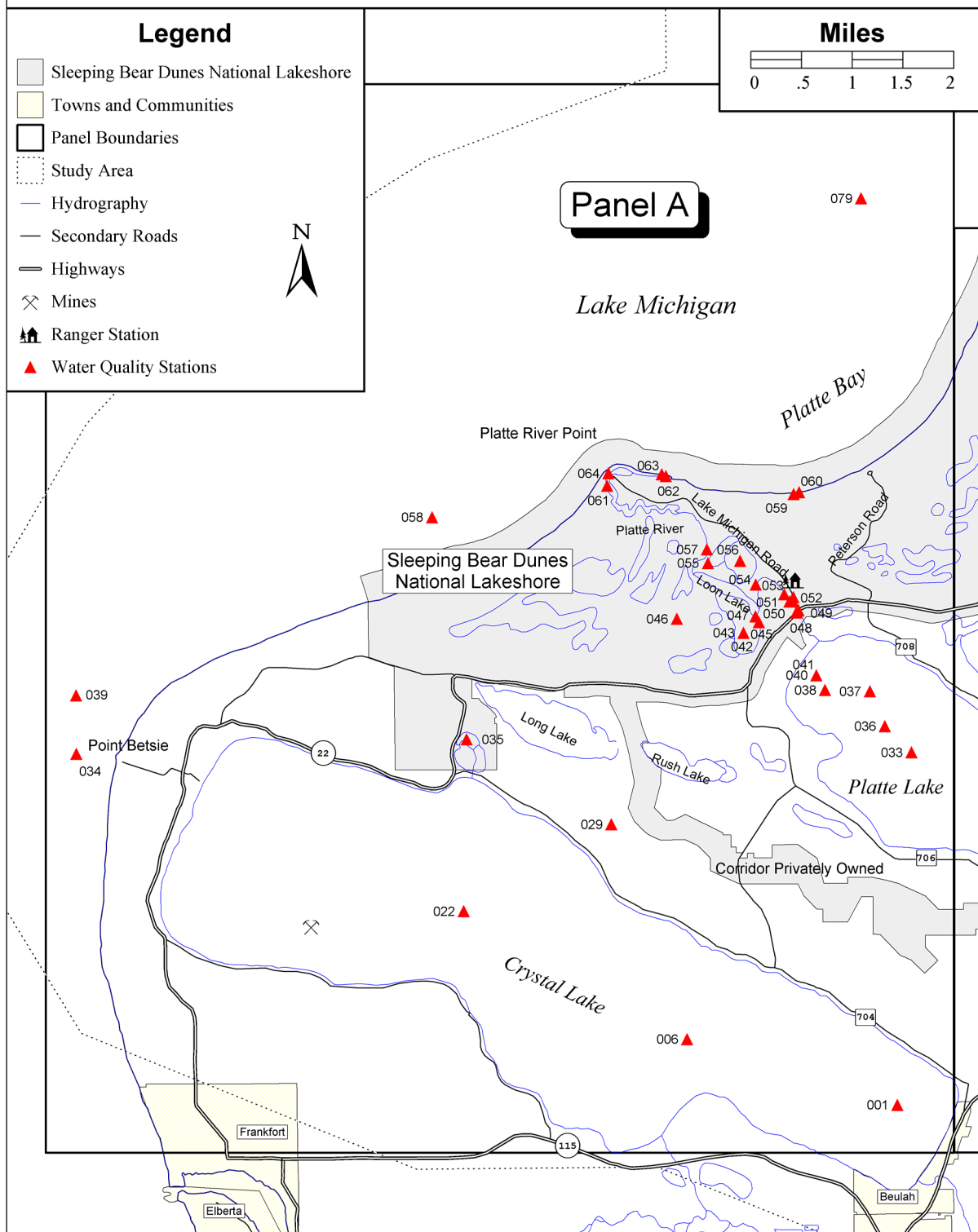
Water Quality Monitoring Stations

Graphic Panel Index



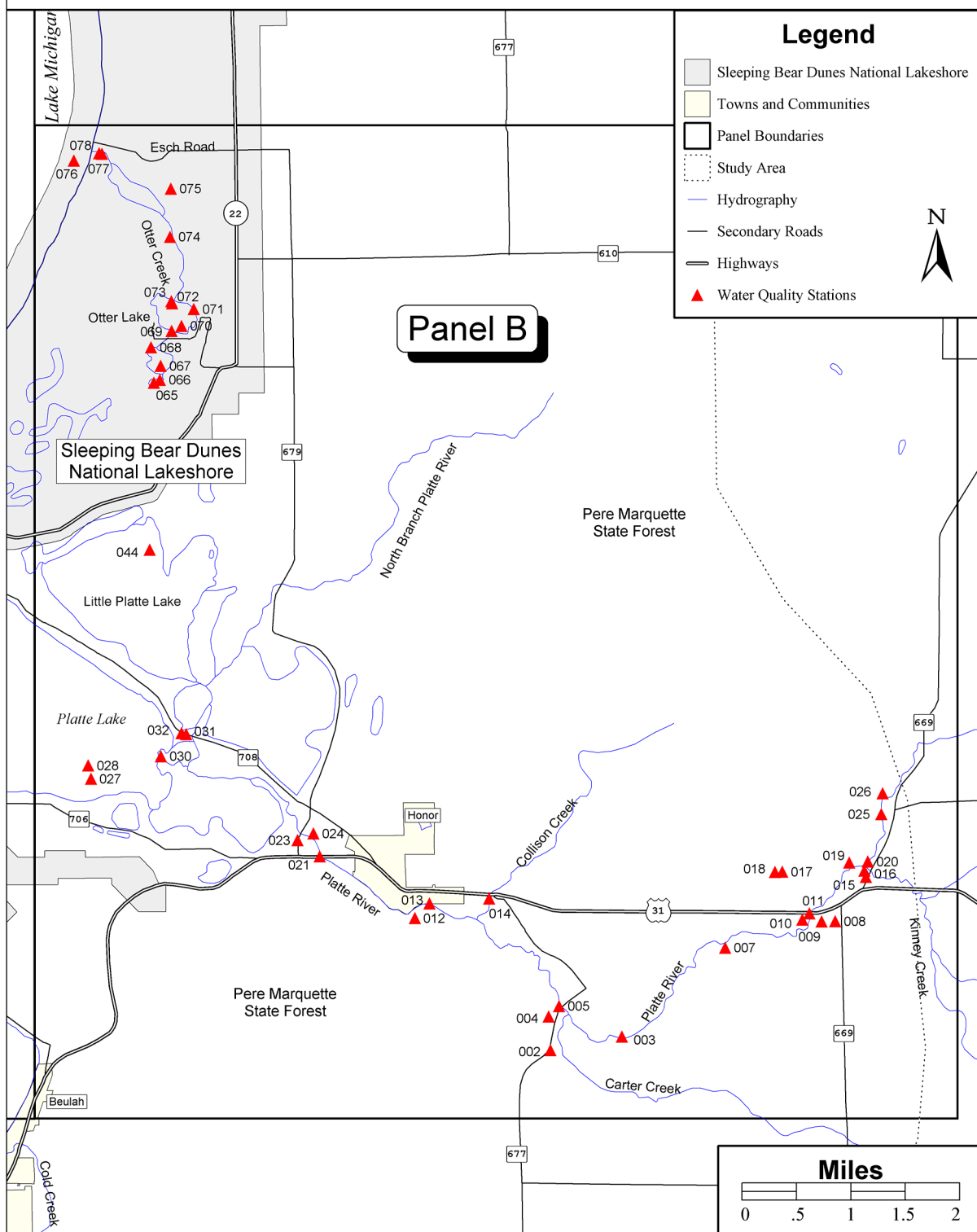
Sleeping Bear Dunes National Lakeshore

Water Quality Monitoring Stations



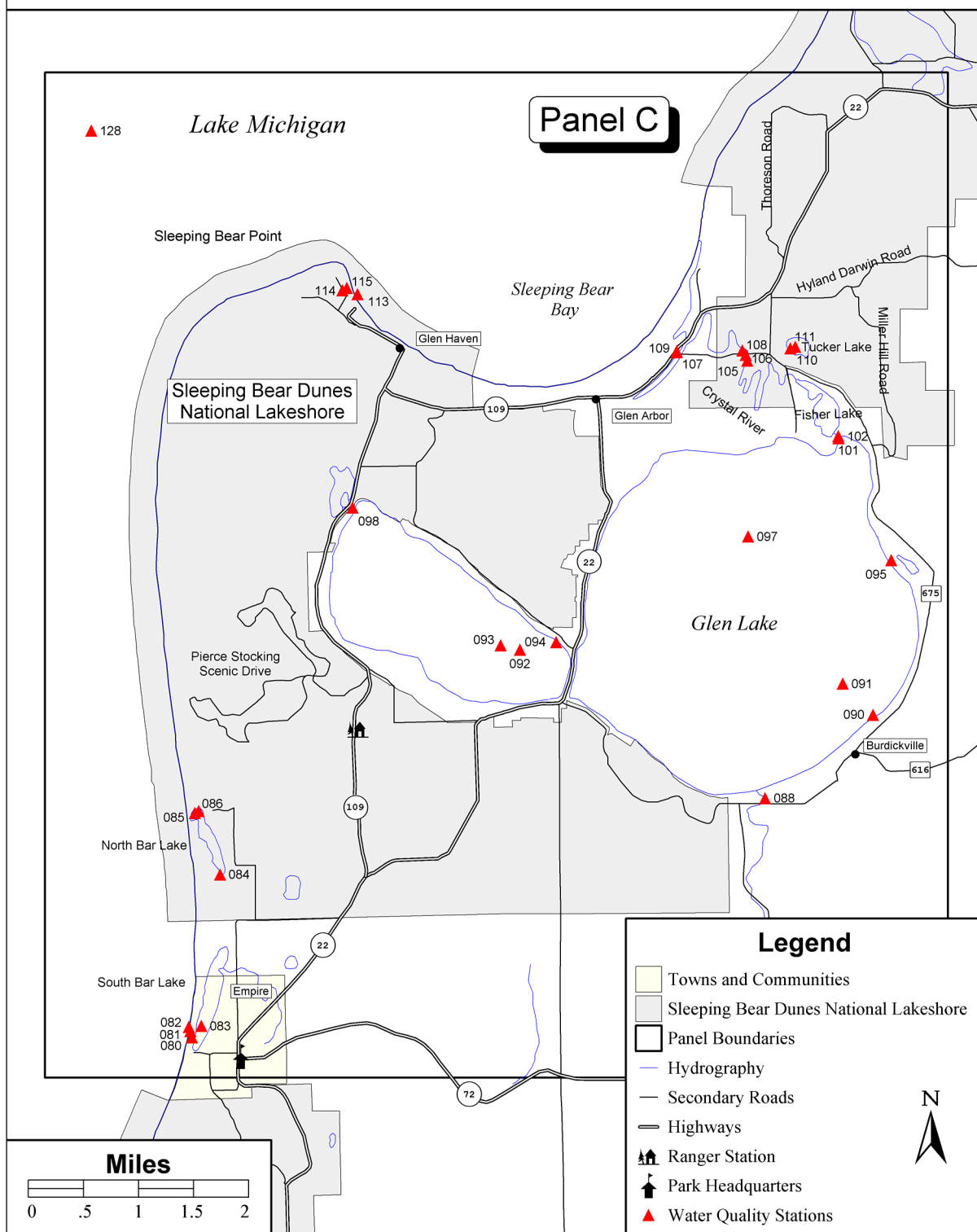
Sleeping Bear Dunes National Lakeshore

Water Quality Monitoring Stations



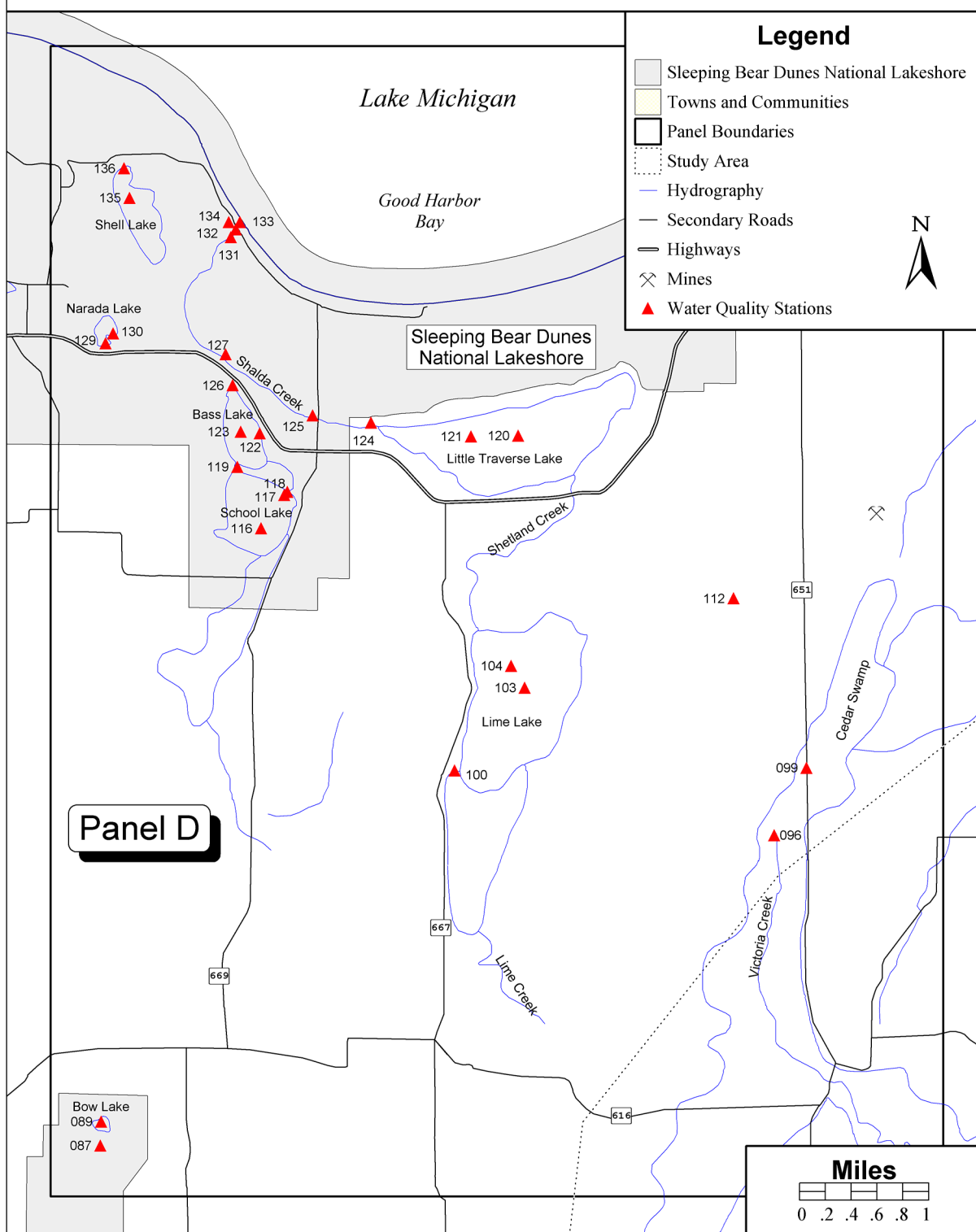
Sleeping Bear Dunes National Lakeshore

Water Quality Monitoring Stations



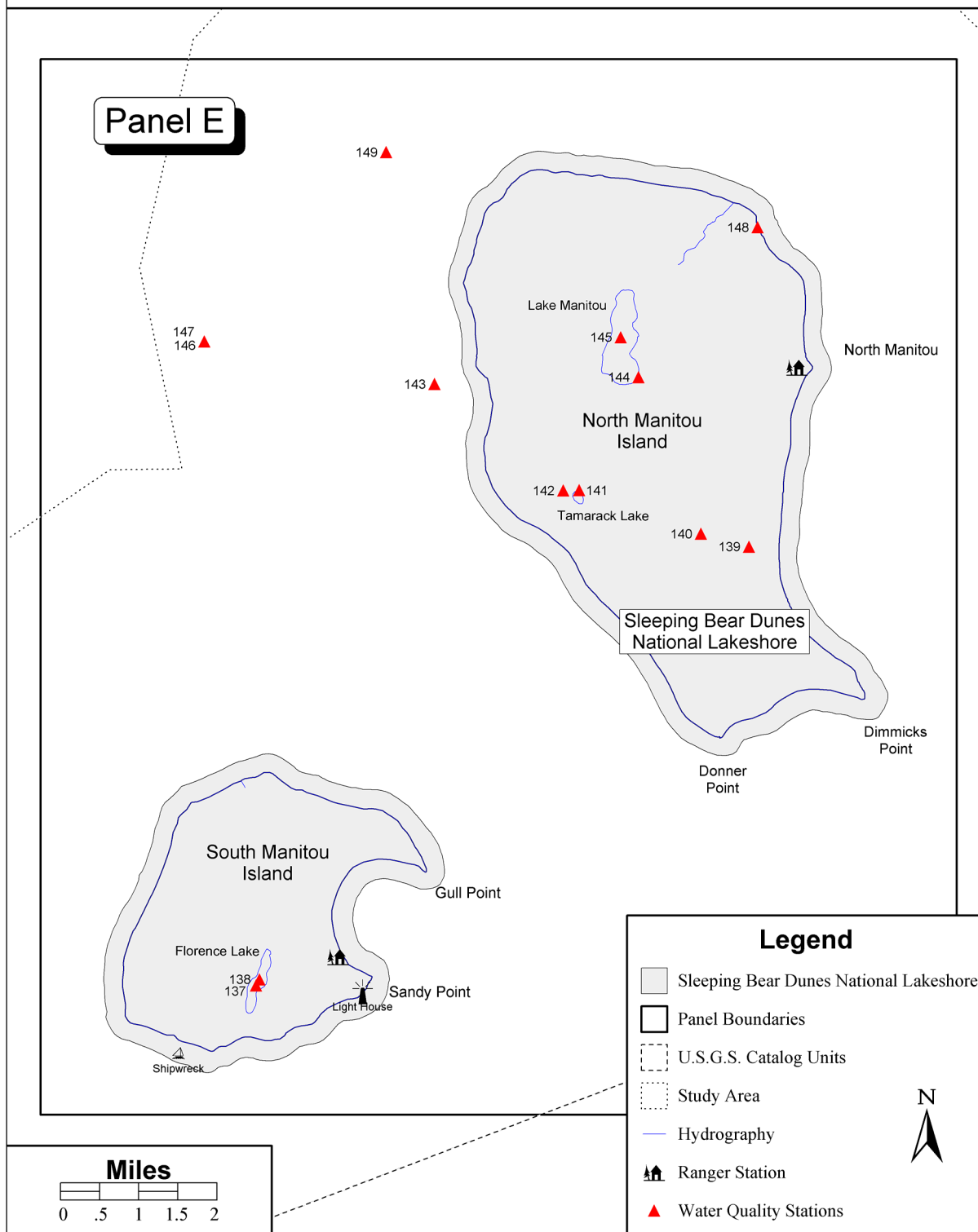
Sleeping Bear Dunes National Lakeshore

Water Quality Monitoring Stations



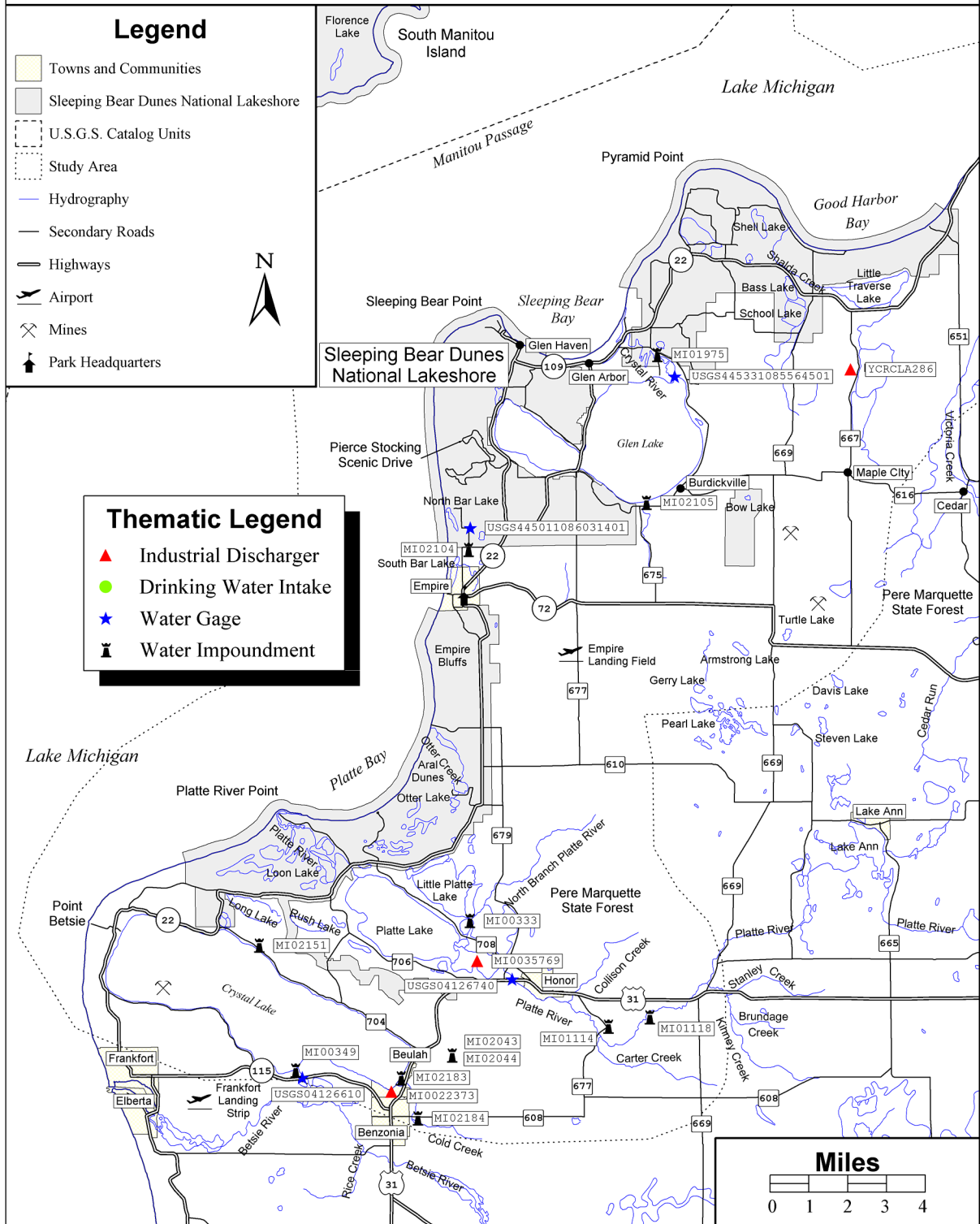
Sleeping Bear Dunes National Lakeshore

Water Quality Monitoring Stations



Sleeping Bear Dunes National Lakeshore

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the SLBE Study Area

Industrial Facility Discharges

<u>Site ID</u>	<u>Station/Facility Name</u>	<u>Address</u>	<u>City</u>	<u>Facility Receiving Water Name</u>
MI0022373	BEULAH VILLAGE OF		BEULAH	BETSIE R
MI0035769	MDNR PLATTE RIVER HATCHERY	15200 HONOR STREET	HONOR	PLATTE RIVER
YCRCLA286	WASH KING LAUNDRY		PLEASANT PLAINS TWP	

Drinking Water Intakes

<u>Site ID</u>	<u>Station/Facility Name</u>	<u>City</u>	<u>Population Served</u>	<u>Avg. Daily Production (Gal./Day)</u>

No drinking water intakes available for this study area.

Water Gages

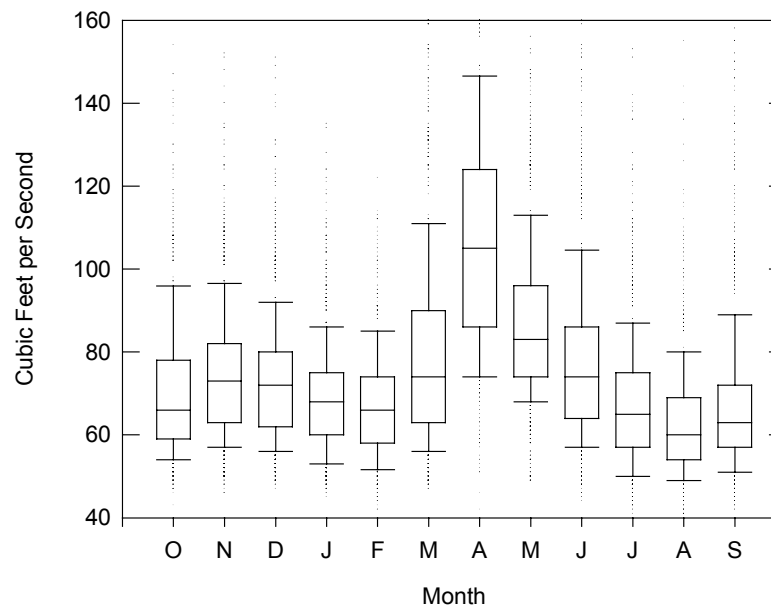
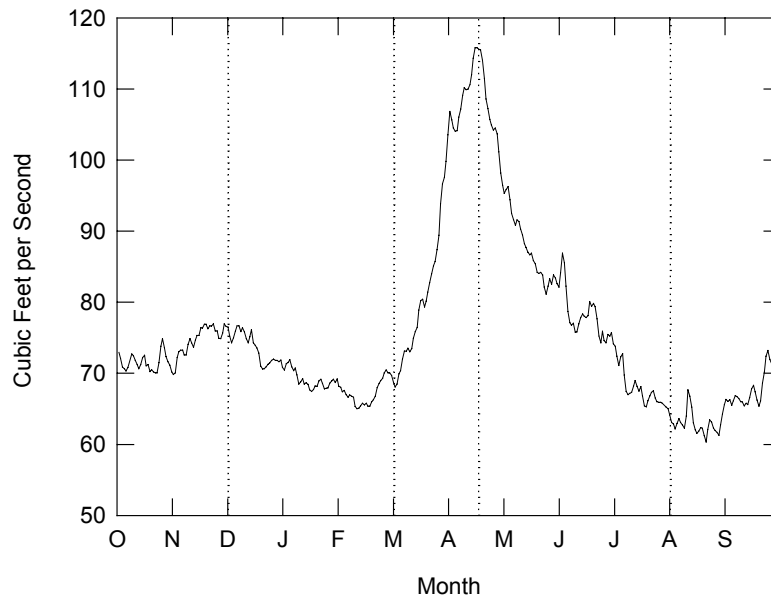
<u>Site ID</u>	<u>Station Name</u>	<u>Site Type</u>	<u>Drainage Area (Square Miles)</u>	<u>Begin Year</u>	<u>End Year</u>
USGS04126610	CRYSTAL LK OUTLET NR	Stream	32.00		
USGS04126740	PLATTE RIVER AT HONOR, MI	Stream	118.00	1990	1993
USGS445011086031401	28N 14W 18BABB01 LELANU SLEEPING BEAR S	Well			
USGS445331085564501	GLEN LAKE NR GLEN ARBOR, MICHIGAN	Stream	30.80		

Water Impoundments

<u>Site ID</u>	<u>Impoundment Name</u>	<u>Owner</u>	<u>Primary Purpose</u>	<u>Type of Dam</u>	<u>Downstream Hazard</u>	<u>Year Completed</u>
MI00333	LITTLE PLATTE L. CONTROL DAM	BENZIE COUNTY	Rec.	Other	Low	1969
MI00349	CRYSTAL LAKE CONTROL DAM	BENZIE CO. ROAD COMM.	Rec.	Gravity	Low	1976
MI01114	CARTERS MILL DAM	BERT OSBURN	Other	Earth	Low	1875
MI01118	NORSTRANDT DAM	CHARLES BARE NOSTRADT	Rec.	Gravity	Low	1936
MI01975	GLEN L. LEVEL CONTROL STRUCT	GLEN LAKE ASSOCIATION	Rec.	Gravity	Low	1945
MI02043	HILLEY DAM NO. ONE	EARL HILLEY	Other	Earth	Low	1968
MI02044	HILLEY DAM NO. TWO	EARL HILLEY	Other	Earth	Low	1968
MI02104	MEAK DAM	TED MEAK			Low	
MI02105	CZAMANSKE DAM	PAUL CZAMANSKE JR.	Rec.	Earth	Low	1978
MI02151	BROUWER DAM	BERNARD BROUWER	Rec.	Gravity	Low	1966
MI02183	COLD CREEK DAM	CITY OF BEULAH			Low	
MI02184	CASE CREEK DAM	CASE			Low	

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

SLEEPING BEAR DUNES NATIONAL LAKESHORE
 Au Sable River at Grayling, MI
 04135500, 46 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Sleeping Bear Dunes National Lakeshore are: Aug. 1 to Nov. 30, Dec. 1 to Feb. 28, Mar. 1 to Apr. 14, and Apr. 15 to Jul. 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR SLBE

<u>AGENCY</u>	<u>PRIMARY CONTACT NAME</u>	<u>ORGANIZATION</u>	<u>PHONE NUMBER(S)</u>
21MICH	PUNG, DALE	MICHIGAN DEPT OF NAT RES	(517)373-2867
112WRD	WILLIAMS, OWEN	US GEOLOGICAL SURVEY	(703)648-5610
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516 (970)225-3518
1115GLSB	ROCKWELL, DAVE	USEPA REGION 5	(312)353-1373
31UMGLSB	ROCKWELL, DAVE	USEPA REGION 5	(312)353-1373
1115G050	JUTIS, BILL	USEPA REGION 2	(212)264-4753

QUANTITY OF DATA RETRIEVED FOR SLBE BY AGENCY CODE
WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

Agency	Organization	Period of Record		Water Quality Stations		Longer Term ¹ Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
		Study Area	Park Only	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park
21MICH	MICHIGAN DEPT OF NAT RES	04/12/67-09/28/93	06/17/68-09/28/93	50	12	29	9	7	1	23066	4948	166	119
112WRD	US GEOLOGICAL SURVEY	05/12/70-09/15/82	05/12/70-07/27/82	24	17	9	8	1	0	2155	1544	160	81
11EPALES	USEPA	11/27/72-10/03/73	No Data in Park	1	0	0	0	0	0	90	0	7	0
11NPSWRD	NATIONAL PARK SERVICE	05/10/80-10/01/96	11/30/89-08/10/95	67	47	21	19	0	0	24673	6137	74	69
1115GLSB	USEPA REGION 5	07/31/77-07/31/77	No Data in Park	3	0	0	0	2	0	23	0	22	0
31UMGLSB	USEPA REGION 5	04/23/76-10/11/76	No Data in Park	3	0	0	0	0	0	764	0	20	0
1115G050	USEPA REGION 2	06/07/62-10/08/74	No Data in Park	1	0	1	0	0	0	546	0	70	0
Totals		06/07/62-10/01/96	06/17/68-08/10/95	149	76	60	36	10	1	51317	12629	294	199

¹Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Station Period of Record Tabulation From 06/07/62 To 10/01/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75
SLBE0001	BETSIE R. AT US-31 BR; BENZONIA TWP. SEC 3	No	27	0	0	27
SLBE0002	CARTER CR AT BROWNELL RD; HOMESTEAD TWP. SEC 22	No	24	0	24	0
SLBE0003	PLATTE R@ GOOSE CAMPGRNDS; HOMESTEAD TWP SEC 22	No	0	0	0	0
SLBE0004	PLATTE R AT CASE BRIDGE; HOMESTEAD TWP SEC 15	No	523	0	36	487
SLBE0005	PLATTE R AT CASE BRIDGE NEAR HONOR, MICH.	No	14	0	0	14
SLBE0006	UNNAMED OUTLET CRYSTAL LAKE	No	90	0	0	90
SLBE0007	PLATTE R. AT HAZERD BR; HOMESTEAD TWP. SEC 13	No	482	0	13	469
SLBE0008	PLATTE R. AT US-31 BRIDGE; HOMESTEAD TWP SEC. 12	No	2373	0	1626	747
SLBE0009	26N 14W 13AAB 01 BENZIE	No	183	0	183	0
SLBE0010	26N 14W 13ABA 01 BENZIE	No	182	0	182	0
SLBE0011	Platte River downstream of Fish Hatchery	No	247	247	0	0
SLBE0012	PLATTE R AT ZIMMERMAN BR; HOMESTEAD TWP. SEC 16	No	480	0	12	468
SLBE0013	PLATTE R 300YD ABV SOUTH ST; HOMESTEAD TWP SEC17	No	0	0	0	0
SLBE0014	COLLISON CR AT US-31 BR; HOMESTEAD TWP. SEC 9	No	24	0	24	0
SLBE0015	BRUNDAGE CR AT COUNTY RD 669; INLAND TWP. SEC 7	No	24	0	24	0
SLBE0016	PLATTE R BELOW BRUNDAGE CREEK; INLAND TWP. SEC 7	No	467	0	12	455
SLBE0017	PLATTE HATCH. BUILDING OUTLET; INLAND TWP. SEC 7	No	446	0	12	434
SLBE0018	PLATTE R BELOW HATCHERY WEIR; INLAND TWP. SEC. 7	No	481	0	12	469
SLBE0019	PLATTE R BELOW LAST HATCH OUTFALL; INLAND TWP SEC7	No	0	0	0	0
SLBE0020	Platte River upstream of Fish Hatchery	No	40	40	0	0
SLBE0021	Platte River at USGS Gaging Station	No	663	663	0	0
SLBE0022	CRYSTAL LAKE-CENTRAL BASIN; LAKE TWP. SEC. 12	No	400	106	76	218
SLBE0023	PLATTE R AT INDIAN HILL RD; HOMESTEAD TWP. SEC 8	No	1130	0	540	590
SLBE0024	Platte River at Indian Hill Road	No	29	29	0	0
SLBE0025	PLATTE R ABOVE PLATTE HATCHERY; INLAND TWP SEC 6	No	2088	0	1534	554
SLBE0026	PLATTE R. AT FEWINS ROAD; INLAND TWP. SEC.6	No	23	0	23	0
SLBE0027	Platte Lake at 22 Foot Basin	No	12	12	0	0
SLBE0028	PLATTE LAKE-EAST BASIN; BENZONIA TWP., SEC. 1	No	2214	0	2214	0
SLBE0029	PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SEC. 27	No	759	153	36	570
SLBE0030	PLATTE LK. AT INLET; BENZONIA TWP., SEC. 1	No	353	0	353	0
SLBE0031	N. Branch of Platte R. at Deadstream Rd.	No	645	645	0	0
SLBE0032	N. BR. PLATTE R DEADSTREAM; HOMSTEAD TWP SEC 6	No	503	0	36	467
SLBE0033	Platte Lake at 75 Foot Basin	No	28	28	0	0
SLBE0034	LAKE MICHIGAN OPEN LAKE	No	0	0	0	0
SLBE0035	ROUND LAKE	Yes	149	149	0	0
SLBE0036	PLATTE LAKE IN CENTRAL BASIN; LAKE TWP., SEC. 34	No	423	63	360	0
SLBE0037	Platte Lake at 44 Foot Basin	No	9	9	0	0
SLBE0038	BIG PLATTE LK-NW BASIN; BENZONIA TWP., SEC. 34	No	2964	181	2677	106
SLBE0039	OPEN WATER	No	156	0	156	0
SLBE0040	Platte Lake at 90 Foot Basin	No	15279	15274	5	0
SLBE0041	Platte Lake at 90 Foot Basin	No	336	243	93	0
SLBE0042	LOON LAKE	Yes	567	567	0	0
SLBE0043	LOON LAKE PHOSPHOROUS SAMPLING	Yes	2	2	0	0
SLBE0044	LITTLE PLATTE LK IN N. BASIN, LAKE TWP. SEC. 25	No	26	0	26	0
SLBE0045	LOON LAKE NUTRIENT AND CHLOROPHYLL A	Yes	4	4	0	0
SLBE0046	EL DORADO PARK	Yes	2	2	0	0
SLBE0047	LOON LAKE INLET	Yes	2	2	0	0
SLBE0048	PLATTE RIVER AT M-22 NR HONOR, MICHIGAN	Yes	154	0	154	0
SLBE0049	Platte River at Platte Lake Outflow	Yes	428	428	0	0
SLBE0050	UPSTREAM OF FISH CLEANING STATION	Yes	2	2	0	0
SLBE0051	PLATTE RIVER UPSTREAM	Yes	361	361	0	0
SLBE0052	PLATTE R AT W END MICH. RD; LAKE TWP. SEC 20	Yes	2979	0	2364	615
SLBE0053	DOWNSTREAM OF FISH CLEANING STATION	Yes	2	2	0	0
SLBE0054	MUD LAKE OUTLET	Yes	2	2	0	0
SLBE0055	PLATTE RIVER BELOW LOON LAKE	Yes	9	9	0	0
SLBE0056	MUD LAKE	Yes	29	29	0	0
SLBE0057	PLATTE RIVER AT WEIR ON LOON LAKE NR HONOR, MICH	Yes	151	0	151	0
SLBE0058	LAKE MICHIGAN OPEN WATER	No	23	0	23	0
SLBE0059	L MICHIGAN, EAST OF PLATTE R; LAKE TWP. SEC 22	Yes	234	0	0	234
SLBE0060	L MICHIGAN, EAST OF PLATTE R; LAKE TWP. SEC 23	Yes	245	0	0	245
SLBE0061	PLATTE RIVER DOWNSTREAM 94 - 95	Yes	8	8	0	0
SLBE0062	L MICH. NEAR PLATTE R MOUTH; LAKE TWP. SEC 20	Yes	233	0	0	233
SLBE0063	L MICH. NEAR PLATTE R MOUTH; LAKE TWP. SEC 19	Yes	244	0	0	244
SLBE0064	PLATTE RIVER DOWNSTREAM	Yes	278	278	0	0
SLBE0065	DEER LAKE	Yes	335	335	0	0
SLBE0066	DEER LAKE NUTRIENT & CHLOROPHYLL A	Yes	6	6	0	0
SLBE0067	BASS LAKE (BENZ.)	Yes	364	364	0	0
SLBE0068	BASS LAKE (BENZ.) NUTRNT & CHLRPHYLL A	Yes	4	4	0	0
SLBE0069	OTTER LAKE CHLOROPHYLL A	Yes	1	1	0	0
SLBE0070	OTTER LAKE	Yes	342	342	0	0
SLBE0071	OTTER LAKE NUTRIENT	Yes	5	5	0	0

Station Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75
SLBE0072 ¹	OTTER CREEK AT OTTER LAKE NEAR EMPIRE MI	Yes	153	0	153	0
SLBE0073	OTTER CREEK UPSTREAM	Yes	361	361	0	0
SLBE0074	OTTER CREEK MIDSTREAM	Yes	8	8	0	0
SLBE0075	27N 15W 12ACAD01 BENZIE SPRING TO OTTER CREEK	Yes	65	0	65	0
SLBE0076 ¹	L MICHIGAN, EAST OF PLATTE R; LAKE TWP, SEC 14	Yes	234	0	0	234
SLBE0077 ¹	OTTER CREEK AT ARAL ROAD NR EMPIRE, MICHIGAN	Yes	190	0	187	3
SLBE0078 ¹	OTTER CREEK DOWNSTREAM	Yes	276	276	0	0
SLBE0079	LAKE MICHIGAN 1 MILES WEST OF ESCH ROAD MICHIGAN	No	68	0	68	0
SLBE0080 ¹	L MICHIGAN, IN EMPIRE; EMPIRE TWP, SEC 18	No	353	0	0	353
SLBE0081 ¹	L MICHIGAN, IN EMPIRE; EMPIRE TWP, SEC 18	No	232	0	0	232
SLBE0082 ¹	L MICHIGAN, IN EMPIRE; EMPIRE TWP, SEC 18	No	234	0	0	234
SLBE0083	SOUTH BAR LAKE	No	31	31	0	0
SLBE0084 ¹	NORTH BAR LAKE NR EMPIRE, MICHIGAN	Yes	150	0	150	0
SLBE0085 ¹	NORTH BAR LAKE	Yes	313	313	0	0
SLBE0086	NORTH BAR LAKE NUTRIENT SAMPLING	Yes	5	5	0	0
SLBE0087	BOW LAKE (SOUTH)	Yes	35	35	0	0
SLBE0088	HATLEN'S CREEK, EMPIRE TWP, SEC 11, T28N, R14W	No	0	0	0	0
SLBE0089	BOW LAKE (NORTH)	Yes	66	66	0	0
SLBE0090	BIG GLEN LAKE NUTRIENT SAMPLING	No	5	5	0	0
SLBE0091	BIG GLEN LAKE	No	482	482	0	0
SLBE0092	LITTLE GLEN LAKE	No	134	134	0	0
SLBE0093	LITTLE GLEN LK-S CENTRAL BASIN; EMPIRE TWP SEC 4	No	184	52	100	32
SLBE0094	LITTLE GLEN LAKE NUTRIENT SAMPLING	No	5	5	0	0
SLBE0095	BROOKS LK OUTLET, GLEN ARBOR TWP, SEC 31, T29N, R13W	No	0	0	0	0
SLBE0096	VICTORIA CR. @ GATSKE RD. CENTERVILLE TWP, SEC 31	No	43	43	0	0
SLBE0097 ¹	GLEN LK-NORTH CENT BASIN; GLEN ARBOR TWP SEC 35	No	467	115	237	115
SLBE0098	DAY POND OUTLET, GLEN ARBOR TWP, SEC 29, T29N, R14W	Yes	0	0	0	0
SLBE0099	BODUS CR AT CO. RD. 651; CENTERVILLE TWP SEC 30	No	24	0	0	24
SLBE0100	BALDWIN RIVER AT BALDWIN, MICH.	No	0	0	0	0
SLBE0101	GLEN LK OUTLET, GLEN ARBOR TWP, SEC 25, T29N, R14W	No	0	0	0	0
SLBE0102 ¹	GLEN LAKE NR GLEN ARBOR, MICHIGAN	No	149	0	149	0
SLBE0103	LIME LAKE	No	123	123	0	0
SLBE0104 ¹	LIME LAKE-CENTRAL BASIN; CLEVELAND TWP, SEC 23	No	138	0	138	0
SLBE0105 ¹	CRYSTAL RIVER DOWNSTREAM	Yes	286	286	0	0
SLBE0106 ¹	CRYSTAL RIVER NR GLEN ARBOR, MICHIGAN	Yes	156	0	156	0
SLBE0107	CRYSTAL RIVER DOWNSTREAM 95	No	4	4	0	0
SLBE0108	CRYSTAL RIVER DOWNSTREAM 94	Yes	4	4	0	0
SLBE0109 ¹	CRYSTAL RIVER UPSTREAM	No	301	301	0	0
SLBE0110	TUCKER LAKE NUTRIENT SAMPLING	Yes	5	5	0	0
SLBE0111 ¹	TUCKER LAKE	Yes	156	156	0	0
SLBE0112	CRYSTAL RIVER AT M-22 BR; GLEN ARBOR TWP, SEC 23	No	80	43	0	37
SLBE0113 ¹	L MICH, NEAR GLEN HAVEN; GLEN ARBOR TWP, SEC 17	Yes	233	0	0	233
SLBE0114 ¹	L MICH, NEAR GLEN HAVEN; GLEN ARBOR TWP, SEC 17	Yes	233	0	0	233
SLBE0115 ¹	L MICH, NEAR GLEN HAVEN; GLEN ARBOR TWP, SEC 17	Yes	244	0	0	244
SLBE0116	SCHOOL LK IN SO-CENT BASIN, CLEVELAND TWP, SEC 16	Yes	26	0	26	0
SLBE0117 ¹	SCHOOL LAKE	Yes	130	130	0	0
SLBE0118	SCHOOL LAKE NUTRIENT SAMPLING	Yes	5	5	0	0
SLBE0119 ¹	SCHOOL LAKE NR GLEN ARBOR, MICHIGAN	Yes	153	0	153	0
SLBE0120	LITTLE TRAVERSE LAKE	No	102	102	0	0
SLBE0121	L. TRAVERSE LK IN W-CENT. BASIN, CLEV. TWP, SEC 11	No	129	37	92	0
SLBE0122	BASS LAKE (LEE.) NUTRIENT SAMPLING	Yes	4	4	0	0
SLBE0123 ¹	BASS LAKE (LEE.)	Yes	252	252	0	0
SLBE0124	SHALDA CREEK OVERTURN	No	61	61	0	0
SLBE0125 ¹	SHALDA CREEK UPSTREAM	Yes	299	299	0	0
SLBE0126	SHELDAL SPRINGS NR BASS LAKE	Yes	55	0	55	0
SLBE0127	SHALDA CREEK MIDSTREAM	Yes	8	8	0	0
SLBE0128 ¹	LAKE MICHIGAN OPEN WATER	No	546	0	0	546
SLBE0129	NARADA LAKE NUTRIENT AND CHLOROPHYLL A	Yes	6	6	0	0
SLBE0130 ¹	NARADA LAKE	Yes	429	429	0	0
SLBE0131 ¹	SHALDA CREEK DOWNSTREAM	Yes	275	275	0	0
SLBE0132 ¹	SHALDA CREEK NR GLEN ARBOR, MICHIGAN	Yes	154	0	154	0
SLBE0133	SHALDA CREEK DOWNSTREAM 94 - 95	Yes	8	8	0	0
SLBE0134	SUCKER CR. @ L. MICH. RD. CLEVELAND TWP, SEC. 4	Yes	43	43	0	0
SLBE0135 ¹	SHELL LAKE	Yes	192	192	0	0
SLBE0136	SHELL LAKE NUTRIENT SAMPLING	Yes	5	5	0	0
SLBE0137	FLORENCE LAKE SOUTH MANITOU ISLAND MI	Yes	28	0	28	0
SLBE0138	FLORENCE LAKE	Yes	44	44	0	0
SLBE0139	THE SPRING	Yes	19	0	19	0
SLBE0140	ANGELL SPRING	Yes	20	0	20	0
SLBE0141	TAMARACK LAKE NORTH MANITOU ISLAND MI	Yes	23	0	23	0
SLBE0142	UNNAMED CREEK NR TAMARACK LAKE, MI	Yes	26	0	26	0

Station Period of Record Tabulation From 06/07/62 To 10/01/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75
SLBE0143	OPEN WATER	No	157	0	157	0
SLBE0144	LAKE MANITOU, NORTH MANITOU ISLAND, MI.	Yes	25	0	25	0
SLBE0145	LAKE MANITOU	Yes	63	63	0	0
SLBE0146	OPEN WATER	No	451	0	451	0
SLBE0147	LAKE MICHIGAN OPEN LAKE	No	0	0	0	0
SLBE0148	UNNAMED SPRING	Yes	22	0	22	0
SLBE0149	L MANISTEE R AT RIVER DV NEAR FREESOIL, MICH.	No	15	0	0	15

¹Longer Term Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Parameter Code	Name	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	7190	6476	627	87	59	33
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	68	0	52	16	16	1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	2805	1285	711	809	105	56
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	1692	1692	0	0	7	1
00019	SAMPLE WEIGHT IN GRAMS	42	0	42	0	1	1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	731	441	7	283	36	27
00023	SAMPLE WEIGHT IN POUNDS	86	0	82	4	1	1
00024	SAMPLE LENGTH IN INCHES	83	0	72	11	3	1
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	18	0	18	0	18	15
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	30	0	30	0	21	17
00031	LIGHT, INCIDENT, PERCENT REMAINING AT CERTAIN DEPTH	27	0	27	0	3	0
00032	CLOUD COVER (PERCENT)	316	0	0	316	23	9
00035	WIND VELOCITY (MILES PER HOUR)	317	0	1	316	24	9
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	314	0	0	314	23	9
00039	SAMPLE LENGTH IN MILLIMETERS	42	0	42	0	1	1
00040	WIND DIRECTION, AZIMUTH	1	0	1	0	1	0
00060	FLOW, STREAM, MEAN DAILY CFS	17	0	0	17	3	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	182	155	24	3	17	12
00070	TURBIDITY, (JACKSON CANDLE UNITS)	351	0	2	349	19	1
00075	TURBIDITY, HELLOGE (PPM AS SILICON DIOXIDE)	10	0	0	10	1	0
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	462	8	409	45	43	13
00077	TRANSPARENCY, SECCHI DISC (INCHES)	566	428	134	4	12	1
00078	TRANSPARENCY, SECCHI DISC (METERS)	95	80	15	0	25	16
00080	COLOR (PLATINUM-COBALT UNITS)	223	0	211	12	28	11
00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	9	0	9	0	9	8
00092	FLOW, MAXIMUM OF FLOW RANGE CFS	2	0	0	2	1	0
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	623	361	262	0	40	23
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	600	8	461	131	56	20
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	1630	1630	0	0	36	28
00300	OXYGEN, DISSOLVED MG/L	2653	1556	555	542	52	16
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	42	0	32	10	14	12
00310	BOD, 5 DAY, 20 DEG C MG/L	585	0	168	417	16	1
00324	BOD, 20 DAY, 20 DEG C MG/L	2	0	2	0	2	0
00335	COD, .025N K2CR2O7 MG/L	74	0	74	0	3	0
00400	PH (STANDARD UNITS)	2081	1040	544	497	62	20
00403	PH, LAB, STANDARD UNITS SU	172	0	168	4	26	15
00405	CARBON DIOXIDE (MG/L AS CO2)	202	176	24	2	16	9
00406	PH, FIELD, STANDARD UNITS SU	461	461	0	0	36	28
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	1579	1204	325	50	74	35
00425	ALKALINITY, BICARBONATE (MG/L AS CaCO3)	309	176	132	1	5	0
00430	ALKALINITY, CARBONATE (MG/L AS CaCO3)	134	0	131	3	4	0
00440	BICARBONATE ION (MG/L AS HCO3)	25	0	22	3	16	9
00445	CARBONATE ION (MG/L AS CO3)	26	0	23	3	16	9
00500	RESIDUE, TOTAL (MG/L)	223	8	198	17	16	2
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	21	0	0	21	8	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	815	8	385	422	30	3
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	17	0	16	1	4	0
00546	RESIDUE, SETTLEABLE (MG/L)	284	0	0	284	12	1
00600	NITROGEN, TOTAL (MG/L AS N)	208	203	2	3	11	7
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	8	0	8	0	3	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	445	24	376	45	28	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	44	0	44	0	4	1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	937	60	393	484	55	21
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	363	0	31	332	24	11
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	158	16	59	83	23	2
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	22	0	22	0	12	10
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	517	30	16	471	46	21
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	573	315	235	23	51	25
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	729	320	380	29	52	25
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	90	0	90	0	22	17
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	7	6	0	1	7	6
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10	0	0	10	1	0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	1	0	0	1	1	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	6508	5540	516	452	93	43
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	80	0	77	3	23	17
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	182	0	169	13	7	0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	184	74	110	0	20	8
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	4	0	4	0	2	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	2	0	2	0	2	0
00694	CARBON, SUSPENDED TOTAL (MG/L AS C)	9	0	9	0	3	0
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	40	0	40	0	17	10

**Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Parameter Code	Name	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	8	0	8	0	8	8
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	182	12	152	18	43	21
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	25	0	23	2	15	9
00910	CALCIUM (MG/L AS CaCO3)	1	0	1	0	1	1
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	99	4	85	10	38	20
00916	CALCIUM, TOTAL (MG/L AS Ca)	381	196	166	19	21	4
00920	MAGNESIUM (MG/L AS CaCO3)	7	0	0	7	1	0
00925	MAGNESIUM, DISSOLVED (MG/L AS Mg)	106	4	85	17	38	20
00927	MAGNESIUM, TOTAL (MG/L AS Mg)	197	20	165	12	20	4
00929	SODIUM, TOTAL (MG/L AS Na)	196	12	165	19	16	2
00930	SODIUM, DISSOLVED (MG/L AS Na)	92	4	85	3	37	20
00931	SODIUM ADSORPTION RATIO	45	4	41	0	25	19
00932	SODIUM, PERCENT	45	4	41	0	24	18
00933	SODIUM, PLUS POTASSIUM (MG/L)	3	0	3	0	3	3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	92	4	85	3	37	20
00937	POTASSIUM, TOTAL (MG/L AS K)	274	83	165	26	24	5
00940	CHLORIDE, TOTAL IN WATER (MG/L)	522	21	463	38	49	20
00945	SULFATE, TOTAL (MG/L AS SO4)	254	14	219	21	38	18
00946	SULFATE, DISSOLVED (MG/L AS SO4)	71	18	39	14	15	4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	47	8	35	4	20	12
00951	FLUORIDE, TOTAL (MG/L AS F)	12	0	12	0	3	0
00955	SILICA, DISSOLVED (MG/L AS SiO2)	113	8	94	11	29	19
00956	SILICA, TOTAL (MG/L AS SiO2)	3	0	0	3	1	0
00957	SILICA, SUSPENDED (MG/L AS SiO2)	52	0	52	0	3	0
00958	SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	387	9	369	9	17	1
01000	ARSENIC, DISSOLVED (UG/L AS As)	38	4	32	2	19	12
01002	ARSENIC, TOTAL (UG/L AS As)	28	12	16	0	13	3
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	21	0	21	0	1	1
01005	BARIUM, DISSOLVED (UG/L AS Ba)	34	4	30	0	16	12
01007	BARIUM, TOTAL (UG/L AS Ba)	12	4	8	0	8	1
01010	BERYLLIUM, DISSOLVED (UG/L AS Be)	4	4	0	0	4	2
01012	BERYLLIUM, TOTAL (UG/L AS Be)	15	8	4	3	11	3
01015	BISMUTH, DISSOLVED (UG/L AS Bi)	2	0	2	0	2	0
01022	BORON, TOTAL (UG/L AS B)	4	0	4	0	2	0
01025	CADMIUM, DISSOLVED (UG/L AS Cd)	36	4	32	0	18	12
01027	CADMIUM, TOTAL (UG/L AS Cd)	39	12	17	10	15	3
01030	CHROMIUM, DISSOLVED (UG/L AS Cr)	36	4	32	0	18	12
01032	CHROMIUM, HEXAVALENT (UG/L AS Cr)	8	8	0	0	4	1
01034	CHROMIUM, TOTAL (UG/L AS Cr)	39	12	17	10	15	3
01035	COBALT, DISSOLVED (UG/L AS Co)	5	4	1	0	5	2
01037	COBALT, TOTAL (UG/L AS Co)	11	4	4	3	7	1
01040	COPPER, DISSOLVED (UG/L AS Cu)	7	4	3	0	7	2
01042	COPPER, TOTAL (UG/L AS Cu)	45	12	17	16	17	3
01044	IRON, SUSPENDED (UG/L AS Fe)	2	0	2	0	2	0
01045	IRON, TOTAL (UG/L AS Fe)	83	18	46	19	23	5
01046	IRON, DISSOLVED (UG/L AS Fe)	41	4	37	0	20	12
01049	LEAD, DISSOLVED (UG/L AS Pb)	36	4	32	0	18	12
01051	LEAD, TOTAL (UG/L AS Pb)	39	12	17	10	15	3
01054	MANGANESE, SUSPENDED (UG/L AS Mn)	4	0	4	0	2	0
01055	MANGANESE, TOTAL (UG/L AS Mn)	34	8	17	9	17	3
01056	MANGANESE, DISSOLVED (UG/L AS Mn)	41	4	37	0	20	12
01060	MOLYBDENUM, DISSOLVED (UG/L AS Mo)	4	4	0	0	4	2
01062	MOLYBDENUM, TOTAL (UG/L AS Mo)	12	8	4	0	10	3
01065	NICKEL, DISSOLVED (UG/L AS Ni)	7	4	3	0	7	2
01067	NICKEL, TOTAL (UG/L AS Ni)	39	12	17	10	15	3
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	21	0	21	0	1	1
01075	SILVER, DISSOLVED (UG/L AS Ag)	36	4	32	0	18	12
01077	SILVER, TOTAL (UG/L AS Ag)	27	8	16	3	10	1
01080	STRONTIUM, DISSOLVED (UG/L AS Sr)	5	4	1	0	5	2
01082	STRONTIUM, TOTAL (UG/L AS Sr)	4	0	4	0	2	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	7	4	3	0	7	2
01087	VANADIUM, TOTAL (UG/L AS V)	7	4	0	3	5	1
01090	ZINC, DISSOLVED (UG/L AS Zn)	36	4	32	0	18	12
01092	ZINC, TOTAL (UG/L AS Zn)	44	12	16	16	16	3
01097	ANTIMONY, TOTAL (UG/L AS Sb)	4	4	0	0	4	1
01100	TIN, DISSOLVED (UG/L AS Sn)	2	0	2	0	2	0
01102	TIN, TOTAL (UG/L AS Sn)	3	0	0	3	1	0
01105	ALUMINUM, TOTAL (UG/L AS Al)	25	18	4	3	12	4
01106	ALUMINUM, DISSOLVED (UG/L AS Al)	1	0	1	0	1	0
01120	GALLIUM, DISSOLVED (UG/L AS Ga)	2	0	2	0	2	0
01125	GERMANIUM, DISSOLVED (UG/L AS Ge)	2	0	2	0	2	0

**Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Parameter Code	Name	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
01130	LITHIUM, DISSOLVED (UG/L AS LI)	5	4	1	0	5	2
01132	LITHIUM, TOTAL (UG/L AS LI)	22	8	14	0	13	3
01145	SELENIUM, DISSOLVED (UG/L AS SE)	31	0	31	0	14	10
01146	SELENIUM, SUSPENDED (UG/L AS SE)	1	0	1	0	1	1
01147	SELENIUM, TOTAL (UG/L AS SE)	24	8	13	3	14	3
01150	TITANIUM, DISSOLVED (UG/L AS TI)	2	0	2	0	2	0
01152	TITANIUM, TOTAL (UG/L AS TI)	14	4	10	0	7	1
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	2	0	2	0	2	0
01325	ALGAE, FLOATING MATS (SEVERITY)	220	0	0	220	11	8
01340	FISH, DEAD (SEVERITY)	267	0	0	267	11	8
01350	TURBIDITY (SEVERITY)	132	0	0	132	11	8
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	1	0	0	1	1	0
02060	INVALID PARAMETER	1	0	0	1	1	0
03401	INVALID PARAMETER	2	0	0	2	1	0
04201	HYDROGEN, DRY WEIGHT, MOLLUSK TISSUE %	2	0	0	2	1	0
05000	INVALID PARAMETER	2	0	0	2	1	0
05101	INVALID PARAMETER	2	0	0	2	1	0
06701	INVALID PARAMETER	2	0	0	2	1	0
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	2	0	2	0	2	0
22703	URANIUM, NATURAL, DISSOLVED	1	0	1	0	1	0
30000	DIMETHOATE, SOIL, RECOVERABLE MG/KG	2	0	0	2	1	0
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	792	0	37	755	27	9
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	936	0	178	758	27	9
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10	0	10	0	10	9
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	9	0	9	0	9	8
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	66	0	66	0	2	0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	3	0	0	3	1	0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	3	0	0	3	1	0
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	597	404	191	2	51	29
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	2	0	2	0	2	0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	18	0	18	0	5	0
34258	B-BHC-BETA WET WGT TISM/G/KG	42	0	42	0	1	1
34263	DELTA BENZENE HEXACHLORIDE WET WGT TISM/G/KG	42	0	42	0	1	1
34365	ENDOSULFAN, ALPHA WET WGT TISM/G/KG	42	0	42	0	1	1
34370	ENDRIN ALDEHYDE WET WGT TISM/G/KG	42	0	42	0	1	1
34667	PCB - 1232 WET WGT TISM/G/KG	42	0	42	0	1	1
34669	PCB - 1248 WET WGT TISM/G/KG	42	0	42	0	1	1
34670	PCB - 1260 WET WGT TISM/G/KG	63	0	63	0	1	1
34674	PCB - 1016 WET WGT TISM/G/KG	42	0	42	0	1	1
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	63	0	63	0	1	1
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGT T,MG/KG	21	0	21	0	1	1
34685	ENDRIN WET WGT TISM/G/KG	42	0	42	0	1	1
34686	HEPTACHLOR EPOXIDE WET WGT TISM/G/KG	63	0	63	0	1	1
34687	HEPTACHLOR WET WGT TISM/G/KG	63	0	63	0	1	1
34688	HEXACHLOROBENZENE WET WGT TISM/G/KG	21	0	21	0	1	1
34689	PCB - 1242 WET WGT TISM/G/KG	63	0	63	0	1	1
34690	PCB - 1254 WET WGT TISM/G/KG	135	0	124	11	3	1
34691	TOXAPHENE WET WGT TISM/G/KG	63	0	63	0	1	1
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	7	0	0	7	1	0
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	2	0	2	0	2	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	42	0	42	0	1	1
39105	PERCENT FAT HEXANE EXTRACTION	115	0	108	7	3	1
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	12	0	12	0	10	7
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	0	1	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	70	0	63	7	3	1
39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	0	1	1	0
39307	O P DDT IN TISSUE WET WGT (UG/G)	7	0	0	7	2	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	70	0	63	7	3	1
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	70	0	63	7	3	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	12	0	12	0	12	10
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	4	0	4	0	2	0
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	12	0	12	0	12	10
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	4	0	4	0	2	0
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	12	0	12	0	12	10
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	5	0	4	1	3	0
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	12	0	12	0	12	10
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	120	0	4	116	8	1
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	120	0	4	116	8	1
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10

**Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Parameter Code	Name	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total Park	
39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	128	0	124	4	1	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	109	0	4	105	8	1
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	135	0	124	11	3	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	12	0	12	0	12	10
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	100	0	0	100	6	1
39515	PCBS (MG/KG) FISH TISSUE MG/KG	63	0	63	0	1	1
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11	0	11	0	11	9
39755	MIREX, TOTAL (UG/L)	2	0	2	0	2	0
39756	MIREX, DISSOLVED (UG/L)	12	0	12	0	12	10
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12	10
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	42	0	42	0	1	1
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2	0
40000	INVALID PARAMETER	2	0	0	2	1	0
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	190	8	168	14	17	2
60050	ALGAE, TOTAL (CELLS/ML)	13	0	0	13	2	0
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	1	0	0	1	1	0
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	2	0	0	2	1	0
60200	ALGAE, COCCOID GREEN (CELLS/ML)	3	0	0	3	1	0
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	1	0	0	1	1	0
60290	ALGAE, FLAGELLATE, TOTAL (CELLS/ML)	5	0	0	5	1	0
60360	ALGAE, DESMIDS, TOTAL (CELLS/ML)	1	0	0	1	1	0
60400	DIATOMS, CENTRIC (/ML)	6	0	0	6	1	0
60600	DIATOMS, PENNATE (/ML)	6	0	0	6	1	0
61000	INVALID PARAMETER	2	0	0	2	1	0
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)	1	0	1	0	1	0
70222	WAVE HEIGHT (WMO CODE 1555)	1	0	1	0	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	373	176	194	3	19	10
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	75	0	69	6	24	16
70302	SOLIDS, DISSOLVED-TONS PER DAY	21	0	21	0	8	8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	37	0	37	0	18	14
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	603	8	393	202	29	2
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	15	0	15	0	3	0
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	1	0	1	0	1	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	24	0	22	2	14	10
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	22	0	22	0	12	10
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	2	0	2	0	2	0
71887	NITROGEN, TOTAL, AS NO3 - MG/L	2	0	2	0	2	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	34	4	30	0	16	12
71900	MERCURY, TOTAL (UG/L AS HG)	33	12	18	3	14	3
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	25	0	21	4	1	1
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	21	0	21	0	1	1
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	21	0	21	0	1	1
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	21	0	21	0	1	1
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	21	0	21	0	1	1
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	21	0	21	0	1	1
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	1	0	1	0	1	0
80087	BOD, CARBONACEOUS, 20 DAY, 20 DEG C MG/L	2	0	2	0	2	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	42	0	42	0	1	1
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	42	0	42	0	1	1

**Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Parameter Code	Name	Total Obs	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	17	17	0	0	17	15
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	294	294	0	0	30	23
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	1	0	1	0	1	1
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	2	0	2	0	2	0
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	18	18	0	0	5	3
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	14	0	14	0	12	8
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	14	0	14	0	12	8
84007	ANATOMY ALPHA CODE	135	0	124	11	3	1
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE	7	0	0	7	2	0
84015	AGE IN YEARS OF SPECIMEN COLLECTED YEARS	42	0	42	0	1	1

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0022	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/12/67-08/25/87	20	50	
SLBE0027	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/23/93-03/23/93	0	3	
SLBE0028	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/14/76-11/03/82	6	114	
SLBE0030	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/21/82-11/03/82	0	13	
SLBE0033	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/23/93-03/23/93	0	7	
SLBE0035	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/90-08/03/92	2	36	
SLBE0036	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/24/76-09/03/91	15	44	
SLBE0037	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/23/93-03/23/93	0	3	
SLBE0038	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/15/74-04/20/87	12	224	
SLBE0039	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/23/76-10/11/76	0	14	
SLBE0040	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/17/82-10/01/96	14	5346	
SLBE0042	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-08/09/95	5	146	
SLBE0044	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/27/80-08/27/80	0	2	
SLBE0045	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0052	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/09/72-09/29/81	8	128	
SLBE0056	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/03/90-08/04/92	2	3	
SLBE0058	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/77-07/31/77	0	2	
SLBE0065	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/90-08/09/95	5	84	
SLBE0066	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0067	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/90-08/09/95	5	92	
SLBE0068	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0070	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/90-08/09/95	5	85	
SLBE0071	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0083	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/03/90-08/03/90	0	7	
SLBE0084	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/15/79-05/13/80	0	2	
SLBE0085	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/03/90-08/09/95	5	77	
SLBE0086	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0087	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-07/25/90	0	9	
SLBE0089	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-07/25/90	0	17	
SLBE0090	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0091	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/24/90-08/09/95	5	103	
SLBE0092	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/24/90-08/09/95	5	26	
SLBE0093	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/27/73-08/29/85	11	15	
SLBE0094	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0097	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/12/67-08/29/85	18	57	
SLBE0103	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/90-07/27/90	0	21	
SLBE0104	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/02/78-08/26/80	2	15	
SLBE0110	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0111	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-08/09/95	5	36	
SLBE0116	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/80-08/26/80	0	2	
SLBE0117	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/26/90-08/09/95	5	27	
SLBE0118	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0119	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/16/79-05/14/80	0	2	
SLBE0120	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/90-07/27/90	0	17	
SLBE0121	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/26/80-05/02/89	8	16	
SLBE0122	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0123	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-08/09/95	5	60	
SLBE0128	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/07/62-10/03/74	12	30	
SLBE0129	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0130	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-08/09/95	5	107	
SLBE0135	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/26/90-08/09/95	5	44	
SLBE0136	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/94-07/25/94	0	1	
SLBE0137	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/02/82-06/02/82	0	1	
SLBE0138	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/01/90-08/01/90	0	11	
SLBE0141	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/27/82-07/27/82	0	1	
SLBE0143	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/24/76-10/10/76	0	11	
SLBE0144	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/26/82-07/26/82	0	1	
SLBE0145	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/90-07/31/90	0	16	
SLBE0146	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/24/76-10/10/76	0	51	
SLBE0004	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0007	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0008	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0012	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0016	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0017	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0018	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0023	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0025	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0029	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0032	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	
SLBE0039	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/23/76-10/11/76	0	10	
SLBE0052	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/12/73-04/12/73	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0128	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/03/74-10/08/74	0	4	
SLBE0143	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/24/76-10/10/76	0	10	
SLBE0146	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/24/76-10/10/76	0	32	
SLBE0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-07/23/68	0	8	
SLBE0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/80-05/12/81	0	12	
SLBE0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	12	55	
SLBE0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	4	36	
SLBE0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	13	127	
SLBE0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/77-09/15/82	5	2	
SLBE0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/77-09/15/82	5	2	
SLBE0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	4	36	
SLBE0014	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/80-05/12/81	0	12	
SLBE0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/80-05/12/81	0	12	
SLBE0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	4	35	
SLBE0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	4	34	
SLBE0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	4	36	
SLBE0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/67-08/25/87	20	37	
SLBE0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	12	69	
SLBE0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	10	106	
SLBE0026	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/75-07/18/75	0	1	
SLBE0028	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/14/76-11/03/82	6	97	
SLBE0029	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-09/07/93	25	59	
SLBE0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/82-11/03/82	0	12	
SLBE0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	10	48	
SLBE0035	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/90-08/03/92	2	35	
SLBE0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/24/76-09/03/91	15	41	
SLBE0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	12	199	
SLBE0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/76-10/11/76	0	10	
SLBE0042	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	5	142	
SLBE0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/90-08/10/95	5	30	
SLBE0052	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-01/08/75	6	40	
SLBE0056	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/04/92	2	3	
SLBE0057	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/14/79-10/28/81	2	3	
SLBE0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/77-07/31/77	0	1	
SLBE0059	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0060	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	5	26	
SLBE0061	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/94-08/10/95	1	2	
SLBE0062	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0063	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	5	26	
SLBE0064	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/90-08/30/93	3	29	
SLBE0065	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	5	75	
SLBE0067	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	5	84	
SLBE0070	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	5	77	
SLBE0072	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/90-08/10/95	5	30	
SLBE0074	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/94-08/10/95	1	2	
SLBE0075	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/26/79-09/26/79	0	1	
SLBE0076	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0077	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/12/70-10/27/81	11	5	
SLBE0078	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/90-08/10/95	5	29	
SLBE0079	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/80-05/15/80	0	1	
SLBE0080	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	5	26	
SLBE0081	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0082	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0083	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/03/90	0	5	
SLBE0084	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/27/81	2	3	
SLBE0085	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	5	71	
SLBE0087	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-07/25/90	0	9	
SLBE0089	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-07/25/90	0	17	
SLBE0091	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/90-08/09/95	5	103	
SLBE0092	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/90-08/09/95	5	24	
SLBE0093	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/73-08/29/85	11	12	
SLBE0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/93-09/28/93	0	1	
SLBE0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/73-08/29/85	11	44	
SLBE0099	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-11/06/67	0	1	
SLBE0102	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/17/79-10/27/81	2	3	
SLBE0103	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-07/27/90	0	21	
SLBE0104	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/02/78-08/26/80	2	13	
SLBE0105	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/02/90-09/22/93	3	29	
SLBE0106	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/79-10/27/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/95-08/10/95	0	1	
SLBE0108	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/94-06/30/94	0	1	
SLBE0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/02/90-08/10/95	5	30	
SLBE0111	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	5	33	
SLBE0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/68-09/28/93	25	4	
SLBE0113	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0114	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0115	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	5	26	
SLBE0116	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/90-08/09/95	5	22	
SLBE0119	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/79-10/27/81	2	3	
SLBE0120	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-07/27/90	0	17	
SLBE0121	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/80-05/02/89	8	14	
SLBE0123	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	5	58	
SLBE0125	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/90-08/10/95	5	30	
SLBE0126	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/80-08/27/80	0	1	
SLBE0127	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/94-08/10/95	1	2	
SLBE0128	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/62-10/03/74	12	20	
SLBE0130	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	5	102	
SLBE0131	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/90-09/10/93	3	29	
SLBE0132	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/79-10/27/81	2	3	
SLBE0133	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/94-08/10/95	1	2	
SLBE0134	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/90-08/09/95	5	43	
SLBE0137	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/82-06/02/82	0	1	
SLBE0138	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-08/01/90	0	9	
SLBE0139	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	0	1	
SLBE0143	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/76-10/10/76	0	10	
SLBE0144	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/82-07/26/82	0	1	
SLBE0145	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/90-07/31/90	0	16	
SLBE0146	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/76-10/10/76	0	32	
SLBE0148	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/82-07/26/82	0	1	
SLBE0149	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/71-06/23/71	0	1	
SLBE0011	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-01/09/91	1	27	
SLBE0020	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-04/04/90	0	7	
SLBE0021	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	6	125	A
SLBE0024	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-03/21/90	0	6	
SLBE0031	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	6	130	A
SLBE0040	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	6	1324	A
SLBE0049	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	4	73	
SLBE0052	Yes	00019	SAMPLE WEIGHT IN GRAMS	09/27/81-09/29/81	0	42	
SLBE0008	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/06/67-10/08/68	0	12	
SLBE0042	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/18/93-08/09/95	1	79	
SLBE0048	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/80-05/15/80	0	1	
SLBE0057	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/80-05/15/80	0	1	
SLBE0058	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/77-07/31/77	0	1	
SLBE0059	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0060	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	4	25	
SLBE0062	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0063	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	4	25	
SLBE0064	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/30/93-08/30/93	0	1	
SLBE0065	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/25/93-08/09/95	1	38	
SLBE0067	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/25/93-08/09/95	1	43	
SLBE0070	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/19/93-08/09/95	1	40	
SLBE0072	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/13/80-05/13/80	0	1	
SLBE0076	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0077	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/12/70-05/12/80	10	2	
SLBE0080	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	4	25	
SLBE0081	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0082	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0085	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/20/93-08/09/95	1	37	
SLBE0091	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/02/93-08/09/95	1	63	
SLBE0092	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/02/93-08/09/95	1	17	
SLBE0105	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/22/93-09/22/93	0	1	
SLBE0106	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/80-05/14/80	0	1	
SLBE0111	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/24/93-08/09/95	1	15	
SLBE0112	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/68-07/23/68	0	1	
SLBE0113	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	
SLBE0114	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	3	24	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0115	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	4	25	
SLBE0117	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/02/93-08/09/95	1	13	
SLBE0123	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/22/93-08/09/95	1	23	
SLBE0128	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/13/70-08/13/70	0	1	
SLBE0130	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/07/93-08/09/95	1	54	
SLBE0131	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/10/93-09/10/93	0	1	
SLBE0132	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/80-05/14/80	0	1	
SLBE0135	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/30/93-08/09/95	1	16	
SLBE0052	Yes	00023	SAMPLE WEIGHT IN POUNDS	11/09/72-09/25/80	7	86	
SLBE0022	No	00024	SAMPLE LENGTH IN INCHES	08/16/72-08/16/72	0	4	
SLBE0052	Yes	00024	SAMPLE LENGTH IN INCHES	11/09/72-09/25/80	7	76	
SLBE0097	No	00024	SAMPLE LENGTH IN INCHES	08/17/72-08/17/72	0	3	
SLBE0009	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/15/82-09/15/82	0	1	
SLBE0010	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/15/82-09/15/82	0	1	
SLBE0048	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/28/81-10/28/81	0	1	
SLBE0057	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/28/81-10/28/81	0	1	
SLBE0072	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-10/26/81	0	1	
SLBE0077	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/27/81-10/27/81	0	1	
SLBE0084	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/27/81-10/27/81	0	1	
SLBE0102	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/27/81-10/27/81	0	1	
SLBE0106	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/27/81-10/27/81	0	1	
SLBE0119	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/27/81-10/27/81	0	1	
SLBE0132	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/27/81-10/27/81	0	1	
SLBE0137	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/82-07/26/82	0	1	
SLBE0009	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/15/82-09/15/82	0	1	
SLBE0010	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/15/82-09/15/82	0	1	
SLBE0048	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/15/80-10/28/81	1	2	
SLBE0057	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/15/80-10/28/81	1	2	
SLBE0072	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/13/80-10/26/81	1	2	
SLBE0075	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/12/80-10/27/81	1	2	
SLBE0079	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/13/80-10/27/81	1	2	
SLBE0102	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/14/80-10/27/81	1	2	
SLBE0106	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/14/80-10/27/81	1	2	
SLBE0119	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/14/80-10/27/81	1	2	
SLBE0126	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/14/80-10/27/81	1	2	
SLBE0137	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/26/82-07/26/82	0	1	
SLBE0039	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/23/76-08/15/76	0	5	
SLBE0143	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/24/76-10/10/76	0	9	
SLBE0146	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/24/76-10/10/76	0	13	
SLBE0004	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0007	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0008	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0012	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0016	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0017	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0018	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0023	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0025	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0029	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0032	No	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0052	Yes	00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	0	4	
SLBE0059	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0060	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-06/21/73	4	25	
SLBE0062	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0063	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-06/21/73	4	25	
SLBE0076	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0080	No	00032	CLOUD COVER (PERCENT)	06/16/69-06/21/73	4	25	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0081	No	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0082	No	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0113	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0114	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	3	24	
SLBE0115	Yes	00032	CLOUD COVER (PERCENT)	06/16/69-06/21/73	4	25	
SLBE0004	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0007	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0008	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0012	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0016	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0017	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0018	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0023	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0025	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0029	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0032	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0052	Yes	00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	0	4	
SLBE0058	No	00035	WIND VELOCITY (MILES PER HOUR)	07/31/77-07/31/77	0	1	
SLBE0059	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0060	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	4	25	
SLBE0062	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0063	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	4	25	
SLBE0076	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0080	No	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	4	25	
SLBE0081	No	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0082	No	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0113	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0114	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	3	24	
SLBE0115	Yes	00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	4	25	
SLBE0004	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0007	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0008	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0012	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0016	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0017	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0018	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0023	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0025	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0029	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0032	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0052	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/74-07/11/74	0	4	
SLBE0059	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	24	
SLBE0060	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-06/21/73	4	25	
SLBE0062	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	23	
SLBE0063	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-06/21/73	4	24	
SLBE0076	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	24	
SLBE0080	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-06/21/73	4	25	
SLBE0081	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	24	
SLBE0082	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	24	
SLBE0113	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	24	
SLBE0114	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-08/21/72	3	24	
SLBE0115	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/16/69-06/21/73	4	25	
SLBE0052	Yes	00039	SAMPLE LENGTH IN MILLIMETERS	09/27/81-09/29/81	0	42	
SLBE0058	No	00040	WIND DIRECTION, AZIMUTH	07/31/77-07/31/77	0	1	
SLBE0008	No	00060	FLOW, STREAM, MEAN DAILY CFS	11/06/67-04/29/69	1	13	
SLBE0099	No	00060	FLOW, STREAM, MEAN DAILY CFS	11/06/67-11/06/67	0	1	
SLBE0112	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/23/68-04/29/69	0	3	
SLBE0005	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/71-06/23/71	0	1	
SLBE0011	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-01/09/91	1	51	
SLBE0020	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-04/04/90	0	7	
SLBE0031	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/28/96-09/03/96	0	13	
SLBE0048	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/14/79-10/28/81	2	3	
SLBE0049	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	4	84	
SLBE0057	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/15/79-10/26/81	2	3	
SLBE0077	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/12/70-10/27/81	11	5	
SLBE0106	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/16/79-10/27/81	2	3	
SLBE0119	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/27/81-10/27/81	0	1	
SLBE0132	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/16/79-10/27/81	2	3	
SLBE0139	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/82-07/27/82	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0148	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/26/82-07/26/82	0	1	
SLBE0149	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/71-06/23/71	0	1	
SLBE0004	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0005	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/23/71-06/23/71	0	1	
SLBE0007	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0008	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0009	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/27/77-07/27/77	0	1	
SLBE0010	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/27/77-07/27/77	0	1	
SLBE0012	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0016	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	28	
SLBE0017	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	26	
SLBE0018	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0023	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0025	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0029	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	28	
SLBE0032	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	29	
SLBE0052	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	3	28	
SLBE0093	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/73-09/27/73	0	1	
SLBE0097	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/27/73-09/27/73	0	1	
SLBE0128	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/13/70-08/13/70	0	3	
SLBE0149	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/23/71-06/23/71	0	1	
SLBE0128	No	00075	TURBIDITY, HELIGE (PPM AS SILICON DIOXIDE)	06/08/62-05/26/63	0	10	
SLBE0004	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0007	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0008	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	6	75	
SLBE0009	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/82-09/15/82	0	1	
SLBE0010	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/82-09/15/82	0	1	
SLBE0012	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0016	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0017	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0018	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0022	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/74-04/19/77	2	6	
SLBE0023	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	6	30	
SLBE0025	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	6	73	
SLBE0026	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/18/75-07/18/75	0	1	
SLBE0028	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/76-11/03/82	6	76	
SLBE0029	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-09/07/93	19	9	
SLBE0030	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/21/82-11/03/82	0	13	
SLBE0032	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0036	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/24/76-04/19/77	1	12	
SLBE0038	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/74-11/03/82	8	82	
SLBE0044	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/14/79-10/28/81	2	3	
SLBE0052	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	0	4	
SLBE0057	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/14/79-10/28/81	2	3	
SLBE0058	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/31/77-07/31/77	0	1	
SLBE0072	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/79-10/27/81	2	4	
SLBE0079	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/79-10/27/81	2	3	
SLBE0093	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	0	2	
SLBE0096	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/93-09/28/93	0	1	
SLBE0097	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	0	3	
SLBE0102	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/17/79-10/27/81	2	3	
SLBE0104	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/16/79-10/27/81	2	3	
SLBE0112	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/93-09/28/93	0	1	
SLBE0116	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/16/79-10/27/81	2	3	
SLBE0121	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/26/80-08/26/80	0	3	
SLBE0126	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	0	1	
SLBE0128	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/03/74-10/03/74	0	3	
SLBE0132	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/16/79-10/27/81	2	3	
SLBE0134	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/93-09/28/93	0	1	
SLBE0022	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/15/74-08/25/87	12	3	
SLBE0028	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/24/76-11/03/82	6	15	
SLBE0036	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/24/76-09/03/91	15	3	
SLBE0038	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/15/74-04/20/87	12	19	S
SLBE0040	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	6	174	A
SLBE0041	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	16	336	T,A,S
SLBE0044	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/27/80-08/27/80	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0093	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/27/73-08/29/85	11	5	
SLBE0097	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/27/73-08/29/85	11	5	
SLBE0104	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/02/78-08/26/80	2	2	
SLBE0116	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/26/80-08/26/80	0	1	
SLBE0121	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/26/80-05/02/89	8	2	
SLBE0035	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/23/90-08/03/92	2	3	
SLBE0039	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/23/76-08/15/76	0	4	
SLBE0042	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	5	6	
SLBE0056	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/03/90-08/03/90	0	1	
SLBE0058	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/31/77-07/31/77	0	1	
SLBE0065	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-08/09/95	5	6	
SLBE0067	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-08/09/95	5	6	
SLBE0070	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-08/09/95	5	6	
SLBE0083	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/03/90-08/03/90	0	1	
SLBE0085	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/03/90-08/09/95	5	7	
SLBE0087	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-07/25/90	0	1	
SLBE0089	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-07/25/90	0	1	
SLBE0091	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/24/90-08/03/94	4	3	
SLBE0092	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/24/90-08/09/95	5	3	
SLBE0103	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-07/27/90	0	1	
SLBE0111	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	5	6	
SLBE0117	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/26/90-08/09/95	5	8	
SLBE0120	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-07/27/90	0	1	
SLBE0123	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	5	6	
SLBE0130	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	5	6	
SLBE0135	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/26/90-08/09/95	5	6	
SLBE0138	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-08/01/90	0	1	
SLBE0143	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/24/76-10/10/76	0	5	
SLBE0145	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/31/90-07/31/90	0	1	
SLBE0146	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/24/76-10/10/76	0	5	
SLBE0005	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/23/71-06/23/71	0	1	
SLBE0009	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/27/77-09/15/82	5	2	
SLBE0010	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/27/77-09/15/82	5	2	
SLBE0022	No	00080	COLOR (PLATINUM-COBALT UNITS)	03/21/73-04/19/77	4	7	
SLBE0028	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/14/76-11/03/82	6	71	
SLBE0030	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/21/82-11/03/82	0	13	
SLBE0036	No	00080	COLOR (PLATINUM-COBALT UNITS)	02/24/76-04/19/77	1	12	
SLBE0038	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/15/74-11/03/82	8	77	
SLBE0044	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/15/80-10/28/81	1	2	
SLBE0057	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/15/80-10/28/81	1	2	
SLBE0072	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/13/80-10/26/81	1	2	
SLBE0075	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/12/80-10/27/81	1	2	
SLBE0079	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/13/80-10/27/81	1	2	
SLBE0093	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	0	2	
SLBE0097	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	0	3	
SLBE0102	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	1	2	
SLBE0104	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	1	2	
SLBE0116	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	1	2	
SLBE0121	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/26/80-08/26/80	0	3	
SLBE0126	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	0	1	
SLBE0128	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/13/70-08/13/70	0	3	
SLBE0132	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	1	2	
SLBE0149	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/23/71-06/23/71	0	1	
SLBE0048	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/14/79-08/14/79	0	1	
SLBE0057	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/14/79-08/14/79	0	1	
SLBE0072	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/15/79-08/15/79	0	1	
SLBE0077	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/15/79-08/15/79	0	1	
SLBE0084	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/15/79-08/15/79	0	1	
SLBE0102	No	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/17/79-08/17/79	0	1	
SLBE0106	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/16/79-08/16/79	0	1	
SLBE0119	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/16/79-08/16/79	0	1	
SLBE0132	Yes	00081	COLOR, APPARENT (UNFILTERED SAMPLE) PLAT-COB UNITS	08/16/79-08/16/79	0	1	
SLBE0128	No	00092	FLOW, MAXIMUM OF FLOW RANGE CFS	08/13/70-10/05/70	0	2	
SLBE0022	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/25/87-08/25/87	0	7	
SLBE0028	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/06/82-11/03/82	0	73	
SLBE0030	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	06/03/82-11/03/82	0	10	
SLBE0036	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	09/03/91-09/03/91	0	12	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0038	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/06/82-04/20/87	4	134	
SLBE0042	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	1	2	
SLBE0044	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/27/80-08/27/80	0	1	
SLBE0051	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-08/10/95	5	28	
SLBE0061	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	06/30/94-08/10/95	1	2	
SLBE0064	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/30/90-08/17/92	2	25	
SLBE0065	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	1	2	
SLBE0067	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	1	2	
SLBE0070	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	1	2	
SLBE0073	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-08/10/95	5	28	
SLBE0074	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/08/94-08/10/95	1	2	
SLBE0078	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/01/90-08/10/95	5	26	
SLBE0085	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	1	2	
SLBE0091	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/24/90-08/09/95	5	42	
SLBE0092	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/24/90-08/09/95	5	10	
SLBE0093	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/27/80-04/30/85	4	8	
SLBE0097	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/27/80-04/30/85	4	30	
SLBE0103	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/27/90-07/27/90	0	21	
SLBE0104	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/26/80-08/26/80	0	9	
SLBE0105	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/02/90-09/14/92	2	24	
SLBE0107	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/10/95-08/10/95	0	1	
SLBE0108	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	06/30/94-06/30/94	0	1	
SLBE0109	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-08/10/95	5	26	
SLBE0111	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	1	2	
SLBE0116	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	1	2	
SLBE0120	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/27/90-07/27/90	0	17	
SLBE0121	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/26/80-05/02/89	8	10	
SLBE0123	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	1	2	
SLBE0124	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-04/24/90	0	1	
SLBE0125	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/03/90-08/10/95	5	26	
SLBE0127	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/01/94-08/10/95	1	2	
SLBE0130	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/21/94-08/09/95	1	2	
SLBE0131	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/03/90-09/16/92	2	24	
SLBE0133	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/01/94-08/10/95	1	2	
SLBE0135	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	1	2	
SLBE0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/71-06/23/71	0	1	
SLBE0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	7	79	
SLBE0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/77-09/15/82	5	2	
SLBE0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/77-09/15/82	5	2	
SLBE0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/73-04/19/77	4	16	
SLBE0023	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	7	34	
SLBE0025	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	7	77	
SLBE0026	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/75-07/18/75	0	1	
SLBE0028	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/14/76-11/03/82	6	76	
SLBE0029	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-09/07/93	19	13	
SLBE0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-11/03/82	0	13	
SLBE0032	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0036	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/24/76-04/19/77	1	12	
SLBE0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/15/74-11/03/82	8	82	
SLBE0039	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/06/76-10/11/76	0	8	
SLBE0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/79-10/28/81	2	3	
SLBE0052	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	1	8	
SLBE0057	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/79-10/28/81	2	3	
SLBE0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/77-07/31/77	0	1	
SLBE0072	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/79-10/27/81	2	4	
SLBE0079	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/80-05/15/80	0	1	
SLBE0080	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/69-06/13/72	2	4	
SLBE0084	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/79-10/27/81	2	3	
SLBE0093	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/27/73-08/27/80	6	4	
SLBE0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/93-09/28/93	0	1	
SLBE0097	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/27/73-08/27/80	6	7	
SLBE0102	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/17/79-10/27/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0104	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/79-10/27/81	2	3	
SLBE0112	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/93-09/28/93	0	1	
SLBE0116	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/79-10/27/81	2	3	
SLBE0121	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/80-08/26/80	0	3	
SLBE0126	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/80-08/27/80	0	1	
SLBE0128	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/62-10/03/74	12	19	
SLBE0132	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/79-10/27/81	2	3	
SLBE0134	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/93-09/28/93	0	1	
SLBE0137	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	0	1	
SLBE0143	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/76-10/10/76	0	8	
SLBE0144	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/82-07/26/82	0	1	
SLBE0146	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/76-10/10/76	0	27	
SLBE0148	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/82-07/26/82	0	1	
SLBE0149	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/71-06/23/71	0	1	
SLBE0035	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/90-08/03/92	2	35	
SLBE0040	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/03/91-01/04/94	2	450	
SLBE0042	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	5	140	A
SLBE0051	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/30/90-08/10/95	5	27	
SLBE0056	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/04/92	2	3	
SLBE0061	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/30/94-08/10/95	1	2	
SLBE0064	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/30/90-08/30/93	3	26	
SLBE0065	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	5	75	
SLBE0067	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	5	84	A
SLBE0070	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	5	77	
SLBE0073	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/01/90-08/10/95	5	27	
SLBE0074	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/94-08/10/95	1	2	
SLBE0078	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/01/90-08/10/95	5	26	
SLBE0083	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/03/90	0	5	
SLBE0085	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	5	69	A
SLBE0087	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-07/25/90	0	9	
SLBE0089	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-07/25/90	0	17	
SLBE0091	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/24/90-08/09/95	5	102	
SLBE0092	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/24/90-08/09/95	5	24	
SLBE0103	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-07/27/90	0	21	
SLBE0105	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/02/90-09/22/93	3	26	
SLBE0107	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/10/95-08/10/95	0	1	
SLBE0108	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/30/94-06/30/94	0	1	
SLBE0109	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/02/90-08/10/95	5	27	
SLBE0111	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	5	33	
SLBE0117	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/26/90-08/09/95	5	22	
SLBE0120	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-07/27/90	0	17	
SLBE0123	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	5	58	
SLBE0125	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/03/90-08/10/95	5	26	
SLBE0127	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/01/94-08/10/95	1	2	
SLBE0130	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	5	101	A
SLBE0131	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/03/90-09/10/93	3	25	
SLBE0133	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/01/94-08/10/95	1	2	
SLBE0135	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/26/90-08/09/95	5	43	
SLBE0138	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/01/90-08/01/90	0	9	
SLBE0145	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/31/90-07/31/90	0	16	
SLBE0001	No	00300	OXYGEN, DISSOLVED MG/L	07/22/68-07/23/68	0	8	
SLBE0004	No	00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	6	42	
SLBE0007	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	3	35	
SLBE0008	No	00300	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	13	126	T,A,S
SLBE0011	No	00300	OXYGEN, DISSOLVED MG/L	11/30/89-01/09/91	1	26	
SLBE0012	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	3	35	
SLBE0016	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	3	34	
SLBE0017	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	3	33	
SLBE0018	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	3	35	
SLBE0020	No	00300	OXYGEN, DISSOLVED MG/L	11/30/89-03/21/90	0	6	
SLBE0021	No	00300	OXYGEN, DISSOLVED MG/L	04/18/90-09/01/92	2	57	
SLBE0022	No	00300	OXYGEN, DISSOLVED MG/L	03/21/73-08/25/87	14	34	
SLBE0023	No	00300	OXYGEN, DISSOLVED MG/L	07/22/68-05/12/81	12	68	T,S
SLBE0024	No	00300	OXYGEN, DISSOLVED MG/L	11/30/89-03/21/90	0	6	
SLBE0025	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	10	105	T,A,S
SLBE0026	No	00300	OXYGEN, DISSOLVED MG/L	07/18/75-07/18/75	0	1	

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Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0027	No	00300	OXYGEN, DISSOLVED MG/L	03/23/93-03/23/93	0	3	
SLBE0028	No	00300	OXYGEN, DISSOLVED MG/L	04/14/76-11/03/82	6	99	
SLBE0029	No	00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	6	42	
SLBE0031	No	00300	OXYGEN, DISSOLVED MG/L	11/30/89-09/01/92	2	60	
SLBE0032	No	00300	OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	3	35	
SLBE0033	No	00300	OXYGEN, DISSOLVED MG/L	03/23/93-03/23/93	0	7	
SLBE0036	No	00300	OXYGEN, DISSOLVED MG/L	02/24/76-09/03/91	15	32	
SLBE0037	No	00300	OXYGEN, DISSOLVED MG/L	03/23/93-03/23/93	0	3	
SLBE0038	No	00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	12	202	T,S
SLBE0040	No	00300	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	6	1306	A
SLBE0044	No	00300	OXYGEN, DISSOLVED MG/L	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00300	OXYGEN, DISSOLVED MG/L	08/14/79-10/28/81	2	3	
SLBE0049	Yes	00300	OXYGEN, DISSOLVED MG/L	11/30/89-01/09/91	1	24	
SLBE0052	Yes	00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	6	42	
SLBE0057	Yes	00300	OXYGEN, DISSOLVED MG/L	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00300	OXYGEN, DISSOLVED MG/L	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00300	OXYGEN, DISSOLVED MG/L	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00300	OXYGEN, DISSOLVED MG/L	08/15/79-10/27/81	2	4	
SLBE0080	No	00300	OXYGEN, DISSOLVED MG/L	06/13/72-06/13/72	0	1	
SLBE0084	Yes	00300	OXYGEN, DISSOLVED MG/L	08/15/79-10/27/81	2	3	
SLBE0093	No	00300	OXYGEN, DISSOLVED MG/L	09/27/73-08/29/85	11	10	
SLBE0097	No	00300	OXYGEN, DISSOLVED MG/L	09/27/73-08/29/85	11	49	T
SLBE0099	No	00300	OXYGEN, DISSOLVED MG/L	11/06/67-11/06/67	0	1	
SLBE0102	No	00300	OXYGEN, DISSOLVED MG/L	08/17/79-10/27/81	2	3	
SLBE0104	No	00300	OXYGEN, DISSOLVED MG/L	05/02/78-08/26/80	2	13	
SLBE0106	Yes	00300	OXYGEN, DISSOLVED MG/L	08/16/79-10/27/81	2	3	
SLBE0112	No	00300	OXYGEN, DISSOLVED MG/L	07/23/68-04/29/69	0	3	
SLBE0116	Yes	00300	OXYGEN, DISSOLVED MG/L	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00300	OXYGEN, DISSOLVED MG/L	08/16/79-10/27/81	2	3	
SLBE0121	No	00300	OXYGEN, DISSOLVED MG/L	08/26/80-05/02/89	8	9	
SLBE0128	No	00300	OXYGEN, DISSOLVED MG/L	06/08/62-10/03/74	12	26	
SLBE0132	Yes	00300	OXYGEN, DISSOLVED MG/L	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00300	OXYGEN, DISSOLVED MG/L	06/02/82-06/02/82	0	1	
SLBE0141	Yes	00300	OXYGEN, DISSOLVED MG/L	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00300	OXYGEN, DISSOLVED MG/L	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00300	OXYGEN, DISSOLVED MG/L	07/26/82-07/26/82	0	1	
SLBE0048	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/14/79-10/28/81	2	3	
SLBE0057	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/15/79-10/26/81	2	3	
SLBE0077	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/15/79-10/27/81	2	4	
SLBE0084	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/15/79-10/27/81	2	3	
SLBE0102	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/16/79-10/27/81	2	3	
SLBE0119	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/16/79-10/27/81	2	3	
SLBE0128	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/08/62-07/17/63	1	10	
SLBE0132	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/02/82-06/02/82	0	1	
SLBE0141	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/26/82-07/26/82	0	1	
SLBE0004	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	6	35	
SLBE0007	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	3	34	
SLBE0008	No	00310	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	13	117	T,A,S
SLBE0012	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	3	34	
SLBE0016	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	3	31	
SLBE0017	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	3	31	
SLBE0018	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	3	33	
SLBE0023	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-05/12/81	12	61	T,S
SLBE0025	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	10	101	T,A,S
SLBE0026	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/18/75-07/18/75	0	1	
SLBE0029	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	6	34	
SLBE0032	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	3	34	
SLBE0052	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	6	34	
SLBE0080	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/13/72-06/13/72	0	1	
SLBE0099	No	00310	BOD, 5 DAY, 20 DEG C MG/L	11/06/67-11/06/67	0	1	
SLBE0112	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/23/68-04/29/69	0	3	
SLBE0008	No	00324	BOD, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	0	1	
SLBE0025	No	00324	BOD, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	0	1	
SLBE0008	No	00335	COD, .025N K2CR2O7 MG/L	07/18/75-07/25/78	3	37	
SLBE0025	No	00335	COD, .025N K2CR2O7 MG/L	08/26/75-07/25/78	2	36	
SLBE0026	No	00335	COD, .025N K2CR2O7 MG/L	07/18/75-07/18/75	0	1	
SLBE0004	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	35	

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Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0005	No	00400	PH (STANDARD UNITS)	06/23/71-06/23/71	0	1	
SLBE0007	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	35	
SLBE0008	No	00400	PH (STANDARD UNITS)	12/06/67-05/12/81	13	119	T,A,S
SLBE0009	No	00400	PH (STANDARD UNITS)	07/27/77-09/15/82	5	2	
SLBE0010	No	00400	PH (STANDARD UNITS)	07/27/77-07/27/77	0	1	
SLBE0012	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	35	
SLBE0016	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	34	
SLBE0017	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	34	
SLBE0018	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	35	
SLBE0021	No	00400	PH (STANDARD UNITS)	03/19/96-10/01/96	0	21	
SLBE0022	No	00400	PH (STANDARD UNITS)	04/12/67-08/25/87	20	39	S
SLBE0023	No	00400	PH (STANDARD UNITS)	07/22/68-05/12/81	12	62	T,S
SLBE0025	No	00400	PH (STANDARD UNITS)	09/08/70-05/12/81	10	104	T,A,S
SLBE0026	No	00400	PH (STANDARD UNITS)	07/18/75-07/18/75	0	1	
SLBE0027	No	00400	PH (STANDARD UNITS)	03/23/93-03/23/93	0	3	
SLBE0028	No	00400	PH (STANDARD UNITS)	04/14/76-11/03/82	6	73	
SLBE0029	No	00400	PH (STANDARD UNITS)	09/08/70-09/07/93	22	39	S
SLBE0030	No	00400	PH (STANDARD UNITS)	06/03/82-11/03/82	0	8	
SLBE0031	No	00400	PH (STANDARD UNITS)	03/19/96-10/01/96	0	21	
SLBE0032	No	00400	PH (STANDARD UNITS)	09/08/70-01/08/75	4	35	
SLBE0033	No	00400	PH (STANDARD UNITS)	03/23/93-03/23/93	0	7	
SLBE0036	No	00400	PH (STANDARD UNITS)	02/24/76-09/03/91	15	15	
SLBE0037	No	00400	PH (STANDARD UNITS)	03/23/93-03/23/93	0	3	
SLBE0038	No	00400	PH (STANDARD UNITS)	09/15/74-04/20/87	12	159	T,S
SLBE0039	No	00400	PH (STANDARD UNITS)	06/06/76-10/11/76	0	8	
SLBE0040	No	00400	PH (STANDARD UNITS)	09/09/92-10/01/96	4	922	
SLBE0048	Yes	00400	PH (STANDARD UNITS)	08/14/79-10/28/81	2	3	
SLBE0052	Yes	00400	PH (STANDARD UNITS)	07/22/68-01/08/75	6	35	
SLBE0057	Yes	00400	PH (STANDARD UNITS)	08/14/79-10/28/81	2	3	
SLBE0058	No	00400	PH (STANDARD UNITS)	07/31/77-07/31/77	0	1	
SLBE0072	Yes	00400	PH (STANDARD UNITS)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00400	PH (STANDARD UNITS)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00400	PH (STANDARD UNITS)	08/15/79-10/27/81	2	4	
SLBE0079	No	00400	PH (STANDARD UNITS)	05/15/80-05/15/80	0	1	
SLBE0080	No	00400	PH (STANDARD UNITS)	07/14/69-06/13/72	2	4	
SLBE0084	Yes	00400	PH (STANDARD UNITS)	08/15/79-10/27/81	2	3	
SLBE0093	No	00400	PH (STANDARD UNITS)	09/27/73-08/29/85	11	10	
SLBE0096	No	00400	PH (STANDARD UNITS)	09/28/93-09/28/93	0	1	
SLBE0097	No	00400	PH (STANDARD UNITS)	04/12/67-08/29/85	18	50	S
SLBE0099	No	00400	PH (STANDARD UNITS)	11/06/67-11/06/67	0	1	
SLBE0102	No	00400	PH (STANDARD UNITS)	08/17/79-10/27/81	2	3	
SLBE0104	No	00400	PH (STANDARD UNITS)	05/02/78-08/26/80	2	12	
SLBE0106	Yes	00400	PH (STANDARD UNITS)	08/16/79-10/27/81	2	3	
SLBE0112	No	00400	PH (STANDARD UNITS)	07/23/68-09/28/93	25	4	
SLBE0116	Yes	00400	PH (STANDARD UNITS)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00400	PH (STANDARD UNITS)	08/16/79-10/27/81	2	3	
SLBE0121	No	00400	PH (STANDARD UNITS)	08/26/80-05/02/89	8	10	
SLBE0126	Yes	00400	PH (STANDARD UNITS)	08/27/80-08/27/80	0	1	
SLBE0128	No	00400	PH (STANDARD UNITS)	06/08/62-10/03/74	12	26	
SLBE0132	Yes	00400	PH (STANDARD UNITS)	08/16/79-10/27/81	2	3	
SLBE0134	Yes	00400	PH (STANDARD UNITS)	09/28/93-09/28/93	0	1	
SLBE0137	Yes	00400	PH (STANDARD UNITS)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00400	PH (STANDARD UNITS)	07/27/82-07/27/82	0	1	
SLBE0143	No	00400	PH (STANDARD UNITS)	06/05/76-10/10/76	0	8	
SLBE0144	Yes	00400	PH (STANDARD UNITS)	07/26/82-07/26/82	0	1	
SLBE0146	No	00400	PH (STANDARD UNITS)	06/05/76-10/10/76	0	27	
SLBE0148	Yes	00400	PH (STANDARD UNITS)	07/26/82-07/26/82	0	1	
SLBE0149	No	00400	PH (STANDARD UNITS)	06/23/71-06/23/71	0	1	
SLBE0007	No	00403	PH, LAB, STANDARD UNITS SU	07/11/74-01/08/75	0	2	
SLBE0009	No	00403	PH, LAB, STANDARD UNITS SU	09/15/82-09/15/82	0	1	
SLBE0010	No	00403	PH, LAB, STANDARD UNITS SU	09/15/82-09/15/82	0	1	
SLBE0028	No	00403	PH, LAB, STANDARD UNITS SU	05/06/82-11/03/82	0	65	
SLBE0030	No	00403	PH, LAB, STANDARD UNITS SU	04/21/82-11/03/82	0	13	
SLBE0038	No	00403	PH, LAB, STANDARD UNITS SU	05/06/82-11/03/82	0	65	
SLBE0044	No	00403	PH, LAB, STANDARD UNITS SU	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00403	PH, LAB, STANDARD UNITS SU	10/28/81-10/28/81	0	1	
SLBE0057	Yes	00403	PH, LAB, STANDARD UNITS SU	10/28/81-10/28/81	0	1	
SLBE0072	Yes	00403	PH, LAB, STANDARD UNITS SU	10/26/81-10/26/81	0	1	
SLBE0077	Yes	00403	PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	0	1	

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Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0084	Yes	00403	PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	0	1	
SLBE0093	No	00403	PH, LAB, STANDARD UNITS SU	08/27/80-08/27/80	0	2	
SLBE0097	No	00403	PH, LAB, STANDARD UNITS SU	08/27/80-08/27/80	0	3	
SLBE0102	No	00403	PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	0	1	
SLBE0106	Yes	00403	PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	0	1	
SLBE0119	Yes	00403	PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	0	1	
SLBE0128	No	00403	PH, LAB, STANDARD UNITS SU	10/03/74-10/03/74	0	3	
SLBE0132	Yes	00403	PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	0	1	
SLBE0137	Yes	00403	PH, LAB, STANDARD UNITS SU	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00403	PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00403	PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00403	PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00403	PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00403	PH, LAB, STANDARD UNITS SU	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00403	PH, LAB, STANDARD UNITS SU	07/26/82-07/26/82	0	1	
SLBE0005	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/23/71-06/23/71	0	1	
SLBE0009	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/27/77-07/27/77	0	1	
SLBE0010	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/27/77-07/27/77	0	1	
SLBE0040	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/17/82-10/01/96	14	177	T
SLBE0048	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/14/79-05/15/80	0	2	
SLBE0072	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/15/79-05/12/80	0	3	
SLBE0079	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/15/79-05/13/80	0	2	
SLBE0102	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/16/79-05/14/80	0	2	
SLBE0132	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/16/79-05/14/80	0	2	
SLBE0149	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/23/71-06/23/71	0	1	
SLBE0035	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/23/90-08/03/92	2	8	
SLBE0042	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	5	11	
SLBE0051	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/24/90-08/10/95	5	31	
SLBE0056	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/03/90-08/04/92	2	3	
SLBE0061	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/30/94-08/10/95	1	2	
SLBE0064	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/30/90-08/30/93	3	29	
SLBE0065	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/27/90-08/09/95	5	10	
SLBE0067	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/27/90-08/09/95	5	10	
SLBE0070	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/27/90-08/09/95	5	10	
SLBE0073	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/24/90-08/10/95	5	31	
SLBE0074	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/08/94-08/10/95	1	2	
SLBE0078	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/01/90-08/10/95	5	28	
SLBE0083	No	00406	PH, FIELD, STANDARD UNITS SU	08/03/90-08/03/90	0	2	
SLBE0085	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/03/90-08/09/95	5	11	
SLBE0087	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/25/90-07/25/90	0	1	
SLBE0089	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/25/90-07/25/90	0	2	
SLBE0091	No	00406	PH, FIELD, STANDARD UNITS SU	07/24/90-08/09/95	5	43	
SLBE0092	No	00406	PH, FIELD, STANDARD UNITS SU	07/24/90-08/09/95	5	12	
SLBE0103	No	00406	PH, FIELD, STANDARD UNITS SU	07/27/90-07/27/90	0	21	
SLBE0105	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/02/90-09/22/93	3	29	
SLBE0107	No	00406	PH, FIELD, STANDARD UNITS SU	08/10/95-08/10/95	0	1	
SLBE0108	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/30/94-06/30/94	0	1	
SLBE0109	No	00406	PH, FIELD, STANDARD UNITS SU	04/24/90-08/10/95	5	31	
SLBE0111	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	5	7	
SLBE0117	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/26/90-08/09/95	5	10	
SLBE0120	No	00406	PH, FIELD, STANDARD UNITS SU	07/27/90-07/27/90	0	17	
SLBE0123	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	5	10	
SLBE0124	No	00406	PH, FIELD, STANDARD UNITS SU	04/24/90-04/24/90	0	1	
SLBE0125	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/03/90-08/10/95	5	30	
SLBE0127	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/01/94-08/10/95	1	2	
SLBE0130	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	5	11	
SLBE0131	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/03/90-09/10/93	3	29	
SLBE0133	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/01/94-08/10/95	1	2	
SLBE0135	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/26/90-08/09/95	5	9	
SLBE0138	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/01/90-08/01/90	0	2	
SLBE0145	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/31/90-07/31/90	0	2	
SLBE0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/23/71-06/23/71	0	1	
SLBE0008	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/06/67-05/12/81	13	52	T,S
SLBE0009	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/77-07/27/77	0	1	
SLBE0010	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/77-07/27/77	0	1	
SLBE0022	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/21/73-04/20/87	14	8	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/68-05/12/81	12	4	
SLBE0025	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/75-05/12/81	5	39	
SLBE0026	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/75-07/18/75	0	1	
SLBE0027	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/93-03/23/93	0	3	
SLBE0028	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/14/76-11/03/82	6	76	
SLBE0029	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/18/93-09/07/93	0	5	
SLBE0030	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-11/03/82	0	13	
SLBE0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/93-03/23/93	0	7	
SLBE0035	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/23/90-08/03/92	2	6	
SLBE0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/24/76-04/19/77	1	12	
SLBE0038	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/74-04/20/87	12	89	T,S
SLBE0039	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/76-10/11/76	0	5	
SLBE0040	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/92-10/01/96	4	905	
SLBE0042	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/25/90-08/03/92	2	6	
SLBE0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/14/79-05/15/80	0	2	
SLBE0051	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/90-09/21/92	2	24	
SLBE0052	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/68-07/22/68	0	1	
SLBE0056	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/90-08/04/92	2	3	
SLBE0057	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/80-05/15/80	0	1	
SLBE0058	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/31/77-07/31/77	0	1	
SLBE0064	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/90-09/21/92	2	24	
SLBE0065	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/90-08/04/92	2	6	
SLBE0067	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/90-08/06/92	2	6	
SLBE0070	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/90-08/04/92	2	6	
SLBE0072	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/79-05/13/80	0	2	
SLBE0073	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/90-09/23/92	2	24	
SLBE0075	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/79-05/12/80	0	3	
SLBE0078	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/90-09/23/92	2	23	
SLBE0079	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/80-05/15/80	0	1	
SLBE0080	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/69-06/13/72	2	4	
SLBE0083	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/90-08/03/90	0	2	
SLBE0084	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/79-05/13/80	0	2	
SLBE0085	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/90-08/05/92	2	6	
SLBE0087	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/25/90-07/25/90	0	1	
SLBE0089	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/25/90-07/25/90	0	2	
SLBE0091	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/24/90-07/24/90	0	3	
SLBE0092	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/24/90-07/24/90	0	2	
SLBE0093	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/80-04/30/85	4	6	
SLBE0096	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/93-09/28/93	0	1	
SLBE0097	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/27/80-04/30/85	4	9	
SLBE0099	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/06/67-11/06/67	0	1	
SLBE0102	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/17/79-05/14/80	0	2	
SLBE0103	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/90-07/27/90	0	3	
SLBE0104	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/02/78-08/26/80	2	6	
SLBE0105	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/02/90-09/14/92	2	24	
SLBE0106	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/16/79-05/14/80	0	2	
SLBE0109	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/02/90-09/14/92	2	24	
SLBE0111	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/25/90-08/05/92	2	3	
SLBE0112	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/23/68-09/28/93	25	4	
SLBE0116	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/26/90-08/06/92	2	3	
SLBE0119	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/16/79-05/14/80	0	2	
SLBE0120	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/90-07/27/90	0	2	
SLBE0121	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/80-08/26/80	0	3	
SLBE0123	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/25/90-08/04/92	2	5	
SLBE0125	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/03/90-09/16/92	2	23	
SLBE0128	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/08/62-10/03/74	12	19	
SLBE0130	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/25/90-08/05/92	2	6	
SLBE0131	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/03/90-09/16/92	2	23	
SLBE0132	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/16/79-05/14/80	0	2	
SLBE0134	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/26/90-08/07/92	2	4	
SLBE0138	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	2	
SLBE0143	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/76-10/10/76	0	5	
SLBE0145	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/31/90-07/31/90	0	2	
SLBE0146	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/76-10/10/76	0	5	
SLBE0149	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/23/71-06/23/71	0	1	
SLBE0028	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	04/21/82-11/03/82	0	60	
SLBE0030	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	04/21/82-11/03/82	0	11	
SLBE0038	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	04/21/82-11/03/82	0	60	

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Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0040	No	00425	ALKALINITY, BICARBONATE (MG/L AS CaCO3)	06/17/82-10/01/96	14	177	T
SLBE0080	No	00425	ALKALINITY, BICARBONATE (MG/L AS CaCO3)	07/14/69-07/14/69	0	1	
SLBE0028	No	00430	ALKALINITY, CARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	0	60	
SLBE0030	No	00430	ALKALINITY, CARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	0	11	
SLBE0038	No	00430	ALKALINITY, CARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	0	60	
SLBE0080	No	00430	ALKALINITY, CARBONATE (MG/L AS CaCO3)	07/14/69-06/13/72	2	3	
SLBE0005	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/23/71-06/23/71	0	1	
SLBE0009	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/27/77-07/27/77	0	1	
SLBE0010	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/27/77-07/27/77	0	1	
SLBE0048	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/15/80-05/15/80	0	1	
SLBE0072	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/15/79-05/12/80	0	3	
SLBE0079	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/15/80-05/15/80	0	1	
SLBE0080	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/17/70-08/17/70	0	1	
SLBE0084	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/15/79-05/13/80	0	2	
SLBE0102	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/16/79-05/14/80	0	2	
SLBE0132	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/16/79-05/14/80	0	2	
SLBE0149	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/23/71-06/23/71	0	1	
SLBE0005	No	00445	CARBONATE ION (MG/L AS CO3)	06/23/71-06/23/71	0	1	
SLBE0009	No	00445	CARBONATE ION (MG/L AS CO3)	07/27/77-07/27/77	0	1	
SLBE0010	No	00445	CARBONATE ION (MG/L AS CO3)	07/27/77-07/27/77	0	1	
SLBE0048	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/14/79-05/15/80	0	2	
SLBE0072	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/15/79-05/12/80	0	3	
SLBE0079	No	00445	CARBONATE ION (MG/L AS CO3)	05/15/80-05/15/80	0	1	
SLBE0080	No	00445	CARBONATE ION (MG/L AS CO3)	08/17/70-08/17/70	0	1	
SLBE0084	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/15/79-05/13/80	0	2	
SLBE0102	No	00445	CARBONATE ION (MG/L AS CO3)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/16/79-05/14/80	0	2	
SLBE0132	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/16/79-05/14/80	0	2	
SLBE0149	No	00445	CARBONATE ION (MG/L AS CO3)	06/23/71-06/23/71	0	1	
SLBE0008	No	00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	72	T,S
SLBE0022	No	00500	RESIDUE, TOTAL (MG/L)	09/15/74-04/19/77	2	6	
SLBE0023	No	00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	27	
SLBE0025	No	00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	5	70	
SLBE0026	No	00500	RESIDUE, TOTAL (MG/L)	07/18/75-07/18/75	0	1	
SLBE0028	No	00500	RESIDUE, TOTAL (MG/L)	04/14/76-08/24/76	0	6	
SLBE0029	No	00500	RESIDUE, TOTAL (MG/L)	05/18/93-09/07/93	0	5	
SLBE0036	No	00500	RESIDUE, TOTAL (MG/L)	02/24/76-04/19/77	1	12	
SLBE0038	No	00500	RESIDUE, TOTAL (MG/L)	09/15/74-08/24/76	1	12	
SLBE0052	Yes	00500	RESIDUE, TOTAL (MG/L)	07/22/68-07/22/68	0	1	
SLBE0080	No	00500	RESIDUE, TOTAL (MG/L)	07/14/69-06/13/72	2	4	
SLBE0096	No	00500	RESIDUE, TOTAL (MG/L)	09/28/93-09/28/93	0	1	
SLBE0099	No	00500	RESIDUE, TOTAL (MG/L)	11/06/67-11/06/67	0	1	
SLBE0112	No	00500	RESIDUE, TOTAL (MG/L)	09/28/93-09/28/93	0	1	
SLBE0128	No	00500	RESIDUE, TOTAL (MG/L)	06/08/62-06/08/62	0	3	
SLBE0134	Yes	00500	RESIDUE, TOTAL (MG/L)	09/28/93-09/28/93	0	1	
SLBE0008	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/22/68-07/22/68	0	1	
SLBE0023	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/22/68-07/22/68	0	1	
SLBE0052	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/22/68-07/22/68	0	1	
SLBE0080	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/14/69-07/14/69	0	1	
SLBE0093	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/27/73-09/27/73	0	1	
SLBE0097	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/27/73-09/27/73	0	1	
SLBE0099	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/06/67-11/06/67	0	1	
SLBE0128	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/08/62-10/05/70	8	14	
SLBE0004	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	35	
SLBE0007	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	35	
SLBE0008	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	107	T,A,S
SLBE0012	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	35	
SLBE0016	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	34	
SLBE0017	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	32	
SLBE0018	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	35	
SLBE0022	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-04/19/77	2	6	
SLBE0023	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	62	T,S
SLBE0025	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	10	104	T,A,S

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0026	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/18/75-07/18/75	0	1	
SLBE0028	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/14/76-11/03/82	6	76	
SLBE0029	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-09/07/93	22	39	S
SLBE0030	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-11/03/82	0	13	
SLBE0032	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	4	35	
SLBE0036	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/24/76-04/19/77	1	12	
SLBE0038	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-08/14/84	9	87	
SLBE0044	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/27/80-08/27/80	0	1	
SLBE0052	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-01/08/75	6	35	
SLBE0080	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/14/69-06/13/72	2	4	
SLBE0093	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/27/73-07/25/84	10	5	
SLBE0096	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/28/93-09/28/93	0	1	
SLBE0097	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/27/73-07/25/84	10	7	
SLBE0099	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/06/67-11/06/67	0	1	
SLBE0104	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/26/80-08/26/80	0	3	
SLBE0112	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/28/93-09/28/93	0	1	
SLBE0116	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/26/80-08/26/80	0	1	
SLBE0121	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/26/80-08/26/80	0	3	
SLBE0128	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/08/62-08/13/70	8	4	
SLBE0134	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/28/93-09/28/93	0	1	
SLBE0008	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/18/75-03/23/76	0	8	
SLBE0025	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/26/75-03/23/76	0	7	
SLBE0026	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/18/75-07/18/75	0	1	
SLBE0080	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/07/71-06/07/71	0	1	
SLBE0004	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0007	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0008	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0012	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0016	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	23	
SLBE0017	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	21	
SLBE0018	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0023	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0025	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0029	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0032	No	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0052	Yes	00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	3	24	
SLBE0009	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	0	1	
SLBE0010	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	0	1	
SLBE0051	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	04/30/90-09/21/92	2	27	
SLBE0064	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	04/30/90-09/21/92	2	27	
SLBE0073	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	05/01/90-09/23/92	2	27	
SLBE0078	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	05/01/90-09/23/92	2	27	
SLBE0105	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	05/02/90-09/14/92	2	27	
SLBE0109	No	00600	NITROGEN, TOTAL (MG/L AS N)	05/02/90-11/14/90	0	14	
SLBE0125	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	05/03/90-09/16/92	2	27	
SLBE0128	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/07/62-06/07/62	0	3	
SLBE0131	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	05/03/90-09/16/92	2	27	
SLBE0039	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	07/15/76-10/11/76	0	3	
SLBE0143	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	07/14/76-10/10/76	0	3	
SLBE0146	No	00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	08/14/76-10/10/76	0	2	
SLBE0004	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0007	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0008	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	8	72	
SLBE0009	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0010	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0012	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0016	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0017	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0018	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0022	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/21/73-08/25/87	14	13	
SLBE0023	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	8	27	
SLBE0025	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	8	71	
SLBE0026	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/18/75-07/18/75	0	1	
SLBE0028	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/14/76-11/03/82	6	76	
SLBE0029	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0030	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/21/82-11/03/82	0	13	
SLBE0032	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0036	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/24/76-04/19/77	1	12	
SLBE0038	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/15/74-04/20/87	12	96	T,S
SLBE0044	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0052	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	0	1	
SLBE0080	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/14/69-06/13/72	2	4	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0093	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/27/73-08/29/85	11	7	
SLBE0097	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/27/73-08/29/85	11	13	
SLBE0104	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/02/78-08/26/80	2	6	
SLBE0116	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/26/80-08/26/80	0	1	
SLBE0121	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/26/80-08/26/80	0	3	
SLBE0128	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/07/62-10/03/74	12	16	
SLBE0039	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/23/76-10/11/76	0	9	
SLBE0137	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/02/82-06/02/82	0	1	
SLBE0143	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/24/76-10/10/76	0	9	
SLBE0146	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/24/76-10/10/76	0	25	
SLBE0004	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0006	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/27/72-10/03/73	0	13	
SLBE0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0008	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	13	120	T,A,S
SLBE0009	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0010	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0012	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0016	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	35	
SLBE0017	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	33	
SLBE0018	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0022	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/21/73-08/25/87	14	13	
SLBE0023	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-05/12/81	12	63	T,S
SLBE0025	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	10	106	T,A,S
SLBE0026	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/18/75-07/18/75	0	1	
SLBE0028	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/14/76-11/03/82	6	76	
SLBE0029	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-09/07/93	22	41	T,S
SLBE0030	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-11/03/82	0	13	
SLBE0032	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0036	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/76-09/03/91	15	15	
SLBE0038	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/74-04/20/87	12	96	T,S
SLBE0042	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0044	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0052	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-01/08/75	6	37	
SLBE0065	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0066	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0067	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0070	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0071	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0080	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/69-06/13/72	2	4	
SLBE0085	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0086	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0090	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0091	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0092	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0093	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/73-08/29/85	11	9	
SLBE0094	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0096	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0097	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/73-08/29/85	11	16	
SLBE0099	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/06/67-11/06/67	0	1	
SLBE0104	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/02/78-08/26/80	2	6	
SLBE0110	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0111	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0112	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/23/68-09/28/93	25	4	
SLBE0116	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0118	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0121	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/80-05/02/89	8	6	
SLBE0122	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0123	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0128	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/62-10/03/74	12	19	
SLBE0129	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0130	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0134	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0136	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0004	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0007	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0008	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0012	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0016	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	27	
SLBE0017	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	25	
SLBE0018	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0023	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0025	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0029	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0032	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0048	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-10/28/81	2	3	
SLBE0052	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	3	28	
SLBE0057	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-10/27/81	2	4	
SLBE0079	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-10/27/81	2	3	
SLBE0102	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-10/27/81	2	3	
SLBE0119	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-10/27/81	2	3	
SLBE0126	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-10/27/81	2	3	
SLBE0004	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0006	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/27/72-10/03/73	0	13	
SLBE0007	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0008	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	12/06/67-01/08/75	7	15	
SLBE0009	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0010	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0012	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0016	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0017	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0018	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0023	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0025	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0028	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/82-06/17/82	0	15	
SLBE0029	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-09/07/93	19	11	
SLBE0030	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/82-06/17/82	0	3	
SLBE0032	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0038	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/82-04/30/85	2	23	
SLBE0052	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	0	6	
SLBE0093	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/25/84-04/30/85	0	4	
SLBE0096	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0097	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/25/84-04/30/85	0	6	
SLBE0112	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/68-09/28/93	24	2	
SLBE0134	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0048	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-05/15/80	0	2	
SLBE0072	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-05/12/80	0	3	
SLBE0079	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-05/13/80	0	2	
SLBE0102	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-05/14/80	0	2	
SLBE0126	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-05/14/80	0	2	
SLBE0004	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0006	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/27/72-10/03/73	0	13	
SLBE0007	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0008	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/06/67-07/18/75	7	50	
SLBE0009	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	0	1	
SLBE0010	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	0	1	
SLBE0012	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0016	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	35	
SLBE0017	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	33	
SLBE0018	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0022	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/67-04/12/67	0	1	
SLBE0023	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/22/68-01/08/75	6	37	
SLBE0025	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0029	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-09/07/93	22	41	T,S
SLBE0032	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	4	36	
SLBE0042	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0052	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/22/68-01/08/75	6	37	
SLBE0065	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0066	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0067	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0070	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0071	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0080	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/14/69-06/13/72	2	4	
SLBE0085	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0086	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0090	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0091	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0092	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0094	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0096	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0097	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/67-04/12/67	0	1	
SLBE0099	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/06/67-11/06/67	0	1	
SLBE0106	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/16/79-08/16/79	0	1	
SLBE0110	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0111	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0112	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/23/68-09/28/93	25	4	
SLBE0117	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0118	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0122	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0123	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0128	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/62-10/05/70	8	17	
SLBE0129	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0130	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0134	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	0	1	
SLBE0136	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	0	1	
SLBE0006	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/27/72-10/03/73	0	13	
SLBE0008	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/79-05/12/81	1	19	
SLBE0009	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0010	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/20/87-08/25/87	0	6	
SLBE0023	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/79-05/12/81	1	18	
SLBE0025	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/79-05/12/81	1	18	
SLBE0028	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/21/82-11/03/82	0	70	
SLBE0029	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/07/93-09/07/93	0	1	
SLBE0030	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/21/82-11/03/82	0	13	
SLBE0035	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/23/90-08/03/92	2	6	
SLBE0036	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/03/91-09/03/91	0	3	
SLBE0038	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/21/82-04/20/87	4	84	
SLBE0042	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-08/03/92	2	6	
SLBE0044	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0051	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/90-09/21/92	2	27	
SLBE0056	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/03/90-08/04/92	2	2	
SLBE0064	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/90-09/21/92	2	27	
SLBE0065	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-08/04/92	2	6	
SLBE0067	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-08/06/92	2	6	
SLBE0070	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-08/04/92	2	6	
SLBE0073	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/01/90-09/23/92	2	27	
SLBE0078	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/01/90-09/23/92	2	27	
SLBE0083	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/03/90-08/03/90	0	2	
SLBE0085	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/03/90-08/05/92	2	5	
SLBE0087	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-07/25/90	0	1	
SLBE0089	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-07/25/90	0	2	
SLBE0091	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/24/90-07/24/90	0	3	
SLBE0092	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/24/90-07/24/90	0	2	
SLBE0093	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/27/80-08/29/85	5	7	
SLBE0096	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0097	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/27/80-08/29/85	5	12	
SLBE0103	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-07/27/90	0	3	
SLBE0104	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/26/80-08/26/80	0	3	
SLBE0105	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/02/90-09/14/92	2	27	
SLBE0109	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/02/90-11/14/90	0	14	
SLBE0111	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-08/05/92	2	3	
SLBE0112	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0116	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/26/90-08/06/92	2	3	
SLBE0120	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-07/27/90	0	3	
SLBE0121	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/26/80-05/02/89	8	6	
SLBE0123	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/91-08/04/92	1	4	
SLBE0125	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/03/90-09/16/92	2	27	
SLBE0128	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/13/70-10/03/74	4	10	
SLBE0130	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-08/05/92	2	7	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0131	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/03/90-09/16/92	2	27	
SLBE0134	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/26/90-08/07/92	2	4	
SLBE0138	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-08/01/90	0	2	
SLBE0145	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/31/90-07/31/90	0	2	
SLBE0006	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/27/72-10/03/73	0	13	
SLBE0008	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	5	70	
SLBE0009	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0010	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/77-09/15/82	5	2	
SLBE0022	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/21/73-08/25/87	14	13	
SLBE0023	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/17/79-05/12/81	2	26	
SLBE0025	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	5	70	
SLBE0026	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/18/75-07/18/75	0	1	
SLBE0028	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/14/76-11/03/82	6	76	
SLBE0029	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/18/93-09/07/93	0	5	
SLBE0030	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/21/82-11/03/82	0	13	
SLBE0035	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/23/90-08/03/92	2	6	
SLBE0036	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/24/76-09/03/91	15	15	
SLBE0038	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/74-04/20/87	12	96	T,S
SLBE0042	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/03/92	2	6	
SLBE0044	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0051	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/30/90-09/21/92	2	27	
SLBE0056	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/03/90-08/04/92	2	3	
SLBE0064	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/30/90-09/21/92	2	27	
SLBE0065	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-08/04/92	2	6	
SLBE0067	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-08/06/92	2	6	
SLBE0070	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-08/04/92	2	6	
SLBE0073	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/01/90-09/23/92	2	27	
SLBE0078	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/01/90-09/23/92	2	27	
SLBE0083	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/03/90-08/03/90	0	2	
SLBE0085	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/03/90-08/05/92	2	5	
SLBE0087	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-07/25/90	0	1	
SLBE0089	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-07/25/90	0	2	
SLBE0091	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/24/90-07/24/90	0	3	
SLBE0092	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/24/90-07/24/90	0	2	
SLBE0093	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/27/73-08/29/85	11	9	
SLBE0096	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0097	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/27/73-08/29/85	11	16	
SLBE0103	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-07/27/90	0	3	
SLBE0104	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/02/78-08/26/80	2	6	
SLBE0105	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/02/90-09/14/92	2	27	
SLBE0109	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/02/90-11/14/90	0	14	
SLBE0111	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/05/92	2	3	
SLBE0112	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0116	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/26/90-08/06/92	2	3	
SLBE0120	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-07/27/90	0	3	
SLBE0121	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/80-05/02/89	8	6	
SLBE0123	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/04/92	2	5	
SLBE0125	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/03/90-09/16/92	2	27	
SLBE0128	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/74-10/03/74	0	3	
SLBE0130	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/05/92	2	6	
SLBE0131	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/03/90-09/16/92	2	27	
SLBE0134	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/26/90-08/07/92	2	4	
SLBE0138	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-08/01/90	0	2	
SLBE0145	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/31/90-07/31/90	0	2	
SLBE0039	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/23/76-10/11/76	0	10	
SLBE0048	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/14/79-10/28/81	2	3	
SLBE0057	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/79-10/27/81	2	4	
SLBE0079	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/79-10/27/81	2	3	
SLBE0102	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/79-10/27/81	2	3	
SLBE0119	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/79-10/27/81	2	3	
SLBE0126	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0140	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	0	1	
SLBE0143	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/24/76-10/10/76	0	10	
SLBE0144	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/26/82-07/26/82	0	1	
SLBE0146	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/24/76-10/10/76	0	32	
SLBE0148	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/26/82-07/26/82	0	1	
SLBE0043	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	0	1	
SLBE0046	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	0	1	
SLBE0047	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	0	1	
SLBE0050	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	0	1	
SLBE0053	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	0	1	
SLBE0054	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	0	1	
SLBE0080	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/14/69-07/14/69	0	1	
SLBE0128	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/08/62-07/17/63	1	10	
SLBE0080	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/14/69-07/14/69	0	1	
SLBE0002	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/80-05/12/81	0	12	
SLBE0004	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	10	46	T,S
SLBE0006	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/27/72-10/03/73	0	12	
SLBE0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	4	34	
SLBE0008	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	13	118	T,A,S
SLBE0009	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/77-09/15/82	5	2	
SLBE0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/77-09/15/82	5	2	
SLBE0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-01/09/91	1	143	
SLBE0012	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	4	34	
SLBE0014	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/80-05/12/81	0	12	
SLBE0015	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/80-05/12/81	0	12	
SLBE0016	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	4	33	
SLBE0017	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	4	31	
SLBE0018	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	4	34	
SLBE0020	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-04/04/90	0	20	
SLBE0021	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	6	452	A
SLBE0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/12/67-08/25/87	20	14	
SLBE0023	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-05/12/81	12	61	T,S
SLBE0024	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-03/21/90	0	17	
SLBE0025	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	10	104	T,A,S
SLBE0026	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/18/75-07/18/75	0	1	
SLBE0028	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/14/76-11/03/82	6	76	
SLBE0029	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-09/07/93	22	51	T,S
SLBE0030	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/21/82-11/03/82	0	13	
SLBE0031	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	6	413	A
SLBE0032	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	10	46	T,S
SLBE0035	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/90-08/03/92	2	6	
SLBE0036	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/24/76-09/03/91	15	15	
SLBE0038	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/74-04/20/87	12	96	T,S
SLBE0039	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/76-10/11/76	0	10	
SLBE0040	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	6	3885	A
SLBE0042	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	5	8	
SLBE0043	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0044	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/27/80-08/27/80	0	1	
SLBE0045	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0046	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0047	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0049	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	4	246	
SLBE0050	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0051	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/90-09/21/92	2	27	
SLBE0052	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-01/08/75	6	35	
SLBE0053	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0054	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0055	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	0	1	
SLBE0056	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/03/90-08/04/92	2	3	
SLBE0064	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/90-09/21/92	2	27	
SLBE0065	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-08/09/95	5	8	
SLBE0066	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0067	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-08/09/95	5	8	
SLBE0068	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0070	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-08/09/95	5	8	
SLBE0071	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0073	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/01/90-09/23/92	2	27	
SLBE0078	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/01/90-09/23/92	2	27	
SLBE0080	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/14/69-06/13/72	2	4	
SLBE0083	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/03/90-08/03/90	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0085	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/03/90-08/09/95	5	7	
SLBE0086	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0087	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-07/25/90	0	1	
SLBE0089	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-07/25/90	0	2	
SLBE0090	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0091	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/24/90-08/09/95	5	5	
SLBE0092	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/24/90-08/09/95	5	4	
SLBE0093	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/27/73-08/29/85	11	9	
SLBE0094	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0096	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/28/93-09/28/93	0	1	
SLBE0097	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/12/67-08/29/85	18	17	
SLBE0099	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/06/67-11/06/67	0	1	
SLBE0103	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-07/27/90	0	3	
SLBE0104	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/02/78-08/26/80	2	6	
SLBE0105	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/02/90-09/14/92	2	27	
SLBE0109	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/02/90-11/14/90	0	14	
SLBE0110	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0111	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	5	5	
SLBE0112	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/23/68-09/28/93	25	4	
SLBE0116	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/80-08/26/80	0	1	
SLBE0117	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/26/90-08/09/95	5	7	
SLBE0118	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0120	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-07/27/90	0	3	
SLBE0121	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/26/80-05/02/89	8	6	
SLBE0123	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	5	7	
SLBE0125	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/03/90-09/16/92	2	27	
SLBE0128	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-10/03/74	4	10	
SLBE0129	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0130	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	5	8	
SLBE0131	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/03/90-09/16/92	2	27	
SLBE0134	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/28/93-09/28/93	0	1	
SLBE0135	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/26/90-08/09/95	5	6	
SLBE0136	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	0	1	
SLBE0138	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-08/01/90	0	2	
SLBE0143	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/76-10/10/76	0	10	
SLBE0145	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/31/90-07/31/90	0	2	
SLBE0146	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/76-10/10/76	0	31	
SLBE0039	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/23/76-08/15/76	0	8	
SLBE0048	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/14/79-10/28/81	2	3	
SLBE0057	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/15/79-10/27/81	2	3	
SLBE0079	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/15/79-10/27/81	2	3	
SLBE0102	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/16/79-10/27/81	2	3	
SLBE0119	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/16/79-10/27/81	2	3	
SLBE0126	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/27/80-08/27/80	0	1	
SLBE0128	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/03/74-10/03/74	0	3	
SLBE0132	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	0	1	
SLBE0143	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/24/76-08/14/76	0	8	
SLBE0144	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/26/82-07/26/82	0	1	
SLBE0146	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/24/76-08/14/76	0	24	
SLBE0148	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/26/82-07/26/82	0	1	
SLBE0006	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/27/72-10/03/73	0	13	
SLBE0028	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	0	70	
SLBE0030	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	0	13	
SLBE0038	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	0	70	
SLBE0039	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/76-08/15/76	0	4	
SLBE0143	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/14/76-08/14/76	0	3	
SLBE0146	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/14/76-08/14/76	0	9	
SLBE0008	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/18/75-07/25/78	3	37	
SLBE0025	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/26/75-07/25/78	2	36	
SLBE0026	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/18/75-07/18/75	0	1	
SLBE0028	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/14/76-08/24/76	0	6	
SLBE0029	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/07/93-09/07/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0030	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-11/03/82	0	12	
SLBE0036	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/24/76-08/24/76	0	9	
SLBE0038	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/24/76-08/24/76	0	9	
SLBE0040	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/09/93-03/23/93	0	5	
SLBE0051	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/29/90-09/19/90	0	8	
SLBE0064	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/29/90-09/19/90	0	8	
SLBE0073	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/30/90-09/18/90	0	8	
SLBE0078	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/15/90-09/18/90	0	9	
SLBE0096	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/28/93-09/28/93	0	1	
SLBE0105	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/31/90-09/20/90	0	8	
SLBE0109	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/31/90-09/20/90	0	8	
SLBE0112	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/28/93-09/28/93	0	1	
SLBE0125	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/90-09/21/90	0	8	
SLBE0131	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/90-09/21/90	0	8	
SLBE0134	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/28/93-09/28/93	0	1	
SLBE0009	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/27/77-09/15/82	5	2	
SLBE0010	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/27/77-09/15/82	5	2	
SLBE0009	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/15/82-09/15/82	0	1	
SLBE0010	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/15/82-09/15/82	0	1	
SLBE0039	No	00694	CARBON, SUSPENDED TOTAL (MG/L AS C)	07/15/76-10/11/76	0	3	
SLBE0143	No	00694	CARBON, SUSPENDED TOTAL (MG/L AS C)	07/14/76-10/10/76	0	3	
SLBE0146	No	00694	CARBON, SUSPENDED TOTAL (MG/L AS C)	07/14/76-10/10/76	0	3	
SLBE0008	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/26/75-09/02/80	5	6	
SLBE0009	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/27/77-09/15/82	5	2	
SLBE0010	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/27/77-09/15/82	5	2	
SLBE0023	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/04/79-09/02/80	0	2	
SLBE0025	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/26/75-09/02/80	5	6	
SLBE0048	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/15/80-10/28/81	1	2	
SLBE0057	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/15/80-10/28/81	1	2	
SLBE0072	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/13/80-10/26/81	1	2	
SLBE0075	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/12/80-10/27/81	1	2	
SLBE0079	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/13/80-10/27/81	1	2	
SLBE0102	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/14/80-10/27/81	1	2	
SLBE0119	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/14/80-10/27/81	1	2	
SLBE0126	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/14/80-10/27/81	1	2	
SLBE0048	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/15/79-08/15/79	0	1	
SLBE0077	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/15/79-08/15/79	0	1	
SLBE0084	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/15/79-08/15/79	0	1	
SLBE0106	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/16/79-08/16/79	0	1	
SLBE0132	Yes	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	08/16/79-08/16/79	0	1	
SLBE0005	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	06/23/71-06/23/71	0	1	
SLBE0008	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	12	40	S
SLBE0009	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/77-09/15/82	5	2	
SLBE0010	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/77-09/15/82	5	2	
SLBE0022	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/12/67-04/19/77	10	7	
SLBE0023	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	12	3	
SLBE0025	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/26/75-09/02/80	5	38	
SLBE0026	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/18/75-07/18/75	0	1	
SLBE0028	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/14/76-08/24/76	0	6	
SLBE0029	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	05/18/93-09/07/93	0	5	
SLBE0036	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/24/76-04/19/77	1	12	
SLBE0038	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	09/15/74-08/24/76	1	12	
SLBE0048	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/24/90-04/24/90	0	1	
SLBE0052	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-07/22/68	0	1	
SLBE0057	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/15/79-10/27/81	2	4	
SLBE0079	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	05/15/80-05/15/80	0	1	
SLBE0080	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/14/69-06/13/72	2	4	
SLBE0084	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/15/79-10/27/81	2	3	
SLBE0096	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	09/28/93-09/28/93	0	1	
SLBE0097	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/12/67-04/12/67	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0099	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/06/67-11/06/67	0	1	
SLBE0102	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/79-10/27/81	2	3	
SLBE0109	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/90-04/24/90	0	1	
SLBE0112	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/93-09/28/93	0	1	
SLBE0119	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/79-10/27/81	2	3	
SLBE0124	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/79-10/27/81	2	3	
SLBE0134	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/93-09/28/93	0	1	
SLBE0137	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/26/82-07/26/82	0	1	
SLBE0149	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/23/71-06/23/71	0	1	
SLBE0005	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/23/71-06/23/71	0	1	
SLBE0009	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/27/77-07/27/77	0	1	
SLBE0010	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/27/77-07/27/77	0	1	
SLBE0048	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/14/79-05/15/80	0	2	
SLBE0072	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/15/79-05/12/80	0	3	
SLBE0079	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/15/79-05/13/80	0	2	
SLBE0102	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/16/79-05/14/80	0	2	
SLBE0132	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/16/79-05/14/80	0	2	
SLBE0149	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/23/71-06/23/71	0	1	
SLBE0084	Yes	00910	CALCIUM (MG/L AS CACO3)	08/15/79-08/15/79	0	1	
SLBE0009	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/77-09/15/82	5	2	
SLBE0010	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/77-09/15/82	5	2	
SLBE0022	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/19/77-04/19/77	0	3	
SLBE0028	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/14/76-08/24/76	0	6	
SLBE0036	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/24/76-04/19/77	1	12	
SLBE0038	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/24/76-08/24/76	0	9	
SLBE0044	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/79-10/27/81	2	4	
SLBE0079	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/80-05/15/80	0	1	
SLBE0080	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/07/71-06/13/72	1	2	
SLBE0084	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/79-10/27/81	2	3	
SLBE0093	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/80-08/27/80	0	2	
SLBE0097	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/80-08/27/80	0	3	
SLBE0099	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/06/67-11/06/67	0	1	
SLBE0102	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/17/79-10/27/81	2	3	
SLBE0104	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/79-10/27/81	2	3	
SLBE0109	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/90-04/24/90	0	1	
SLBE0116	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/79-10/27/81	2	3	
SLBE0121	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/80-08/26/80	0	3	
SLBE0124	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/80-08/27/80	0	1	
SLBE0128	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/08/62-05/26/63	0	7	
SLBE0132	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/82-07/26/82	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0008	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/22/68-07/07/77	8	4	
SLBE0022	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/15/74-04/20/87	12	4	
SLBE0023	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/22/68-07/22/68	0	1	
SLBE0025	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/26/75-07/07/77	1	3	
SLBE0028	No	00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-11/03/82	0	70	
SLBE0029	No	00916	CALCIUM, TOTAL (MG/L AS CA)	05/18/93-09/07/93	0	5	
SLBE0030	No	00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-11/03/82	0	13	
SLBE0038	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/15/74-04/20/87	12	78	T
SLBE0040	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/17/82-10/01/96	14	177	T
SLBE0051	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/07/90-12/07/90	0	1	
SLBE0052	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/22/68-07/22/68	0	1	
SLBE0058	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/03/90-12/03/90	0	1	
SLBE0093	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/25/84-04/30/85	0	3	
SLBE0096	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/28/93-09/28/93	0	1	
SLBE0097	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/25/84-04/30/85	0	4	
SLBE0109	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/03/90-12/03/90	0	1	
SLBE0112	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/28/93-09/28/93	0	1	
SLBE0124	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/07/90-12/07/90	0	1	
SLBE0128	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	09/28/93-09/28/93	0	1	
SLBE0128	No	00920	MAGNESIUM (MG/L AS CaCO3)	06/08/62-05/26/63	0	7	
SLBE0009	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/77-09/15/82	5	2	
SLBE0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/77-09/15/82	5	2	
SLBE0022	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/19/77-04/19/77	0	3	
SLBE0028	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/14/76-08/24/76	0	6	
SLBE0036	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/76-04/19/77	1	12	
SLBE0038	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/76-08/24/76	0	9	
SLBE0044	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/79-10/27/81	2	4	
SLBE0079	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/80-05/15/80	0	1	
SLBE0080	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/07/71-06/13/72	1	2	
SLBE0084	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/79-10/27/81	2	3	
SLBE0093	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	0	2	
SLBE0097	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	0	3	
SLBE0099	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/06/67-11/06/67	0	1	
SLBE0102	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/17/79-10/27/81	2	3	
SLBE0104	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/79-10/27/81	2	3	
SLBE0109	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	0	1	
SLBE0116	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/79-10/27/81	2	3	
SLBE0121	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/80-08/26/80	0	3	
SLBE0124	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	0	1	
SLBE0128	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/62-10/05/70	8	14	
SLBE0132	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/82-07/26/82	0	1	
SLBE0008	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/68-07/07/77	8	4	
SLBE0022	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/15/74-04/20/87	12	4	
SLBE0023	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/68-07/22/68	0	1	
SLBE0025	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/26/75-07/07/77	1	3	
SLBE0028	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-11/03/82	0	70	
SLBE0029	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/18/93-09/07/93	0	5	
SLBE0030	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-11/03/82	0	13	
SLBE0038	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/15/74-04/20/87	12	78	T
SLBE0051	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/07/90-12/07/90	0	1	
SLBE0052	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/68-07/22/68	0	1	
SLBE0058	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/03/90-12/03/90	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0093	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/25/84-04/30/85	0	3	
SLBE0096	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/28/93-09/28/93	0	1	
SLBE0097	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/25/84-04/30/85	0	4	
SLBE0109	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/03/90-12/03/90	0	1	
SLBE0112	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/28/93-09/28/93	0	1	
SLBE0124	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/07/90-12/07/90	0	1	
SLBE0128	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/28/93-09/28/93	0	1	
SLBE0008	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/22/68-07/07/77	8	4	
SLBE0022	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/15/74-04/20/87	12	4	
SLBE0023	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/22/68-07/22/68	0	1	
SLBE0025	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/26/75-07/07/77	1	3	
SLBE0028	No	00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-11/03/82	0	70	
SLBE0029	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/07/93-09/07/93	0	1	
SLBE0030	No	00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-11/03/82	0	13	
SLBE0038	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/15/74-04/20/87	12	78	T
SLBE0052	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/22/68-07/22/68	0	1	
SLBE0058	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/31/77-07/31/77	0	1	
SLBE0093	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/25/84-04/30/85	0	3	
SLBE0096	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/28/93-09/28/93	0	1	
SLBE0097	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/25/84-04/30/85	0	4	
SLBE0112	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/28/93-09/28/93	0	1	
SLBE0128	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	09/28/93-09/28/93	0	1	
SLBE0009	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/77-09/15/82	5	2	
SLBE0010	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/77-09/15/82	5	2	
SLBE0022	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/19/77-04/19/77	0	3	
SLBE0028	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/14/76-08/24/76	0	6	
SLBE0036	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/24/76-04/19/77	1	12	
SLBE0038	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/24/76-08/24/76	0	9	
SLBE0044	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/15/79-10/27/81	2	4	
SLBE0079	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/80-05/15/80	0	1	
SLBE0080	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/07/71-06/13/72	1	2	
SLBE0084	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/15/79-10/27/81	2	3	
SLBE0093	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/80-08/27/80	0	2	
SLBE0097	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/80-08/27/80	0	3	
SLBE0099	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/06/67-11/06/67	0	1	
SLBE0102	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/17/79-10/27/81	2	3	
SLBE0104	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/79-10/27/81	2	3	
SLBE0109	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/90-04/24/90	0	1	
SLBE0116	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/79-10/27/81	2	3	
SLBE0121	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/80-08/26/80	0	3	
SLBE0124	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/82-07/26/82	0	1	
SLBE0009	No	00931	SODIUM ADSORPTION RATIO	07/27/77-09/15/82	5	2	
SLBE0010	No	00931	SODIUM ADSORPTION RATIO	07/27/77-09/15/82	5	2	
SLBE0048	Yes	00931	SODIUM ADSORPTION RATIO	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00931	SODIUM ADSORPTION RATIO	04/24/90-04/24/90	0	1	
SLBE0057	Yes	00931	SODIUM ADSORPTION RATIO	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00931	SODIUM ADSORPTION RATIO	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00931	SODIUM ADSORPTION RATIO	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00931	SODIUM ADSORPTION RATIO	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00931	SODIUM ADSORPTION RATIO	08/15/79-10/27/81	2	4	
SLBE0079	No	00931	SODIUM ADSORPTION RATIO	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00931	SODIUM ADSORPTION RATIO	05/13/80-10/27/81	1	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0102	No	00931	SODIUM ADSORPTION RATIO	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00931	SODIUM ADSORPTION RATIO	08/16/79-10/27/81	2	3	
SLBE0109	No	00931	SODIUM ADSORPTION RATIO	04/24/90-04/24/90	0	1	
SLBE0119	Yes	00931	SODIUM ADSORPTION RATIO	08/16/79-10/27/81	2	3	
SLBE0124	No	00931	SODIUM ADSORPTION RATIO	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00931	SODIUM ADSORPTION RATIO	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00931	SODIUM ADSORPTION RATIO	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00931	SODIUM ADSORPTION RATIO	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00931	SODIUM ADSORPTION RATIO	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00931	SODIUM ADSORPTION RATIO	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00931	SODIUM ADSORPTION RATIO	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00931	SODIUM ADSORPTION RATIO	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00931	SODIUM ADSORPTION RATIO	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00931	SODIUM ADSORPTION RATIO	07/26/82-07/26/82	0	1	
SLBE0009	No	00932	SODIUM, PERCENT	07/27/77-09/15/82	5	2	
SLBE0010	No	00932	SODIUM, PERCENT	07/27/77-09/15/82	5	2	
SLBE0048	Yes	00932	SODIUM, PERCENT	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00932	SODIUM, PERCENT	04/24/90-04/24/90	0	1	
SLBE0057	Yes	00932	SODIUM, PERCENT	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00932	SODIUM, PERCENT	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00932	SODIUM, PERCENT	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00932	SODIUM, PERCENT	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00932	SODIUM, PERCENT	08/15/79-10/27/81	2	4	
SLBE0079	No	00932	SODIUM, PERCENT	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00932	SODIUM, PERCENT	08/15/79-10/27/81	2	3	
SLBE0102	No	00932	SODIUM, PERCENT	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00932	SODIUM, PERCENT	08/16/79-10/27/81	2	3	
SLBE0109	No	00932	SODIUM, PERCENT	04/24/90-04/24/90	0	1	
SLBE0119	Yes	00932	SODIUM, PERCENT	08/16/79-10/27/81	2	3	
SLBE0124	No	00932	SODIUM, PERCENT	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00932	SODIUM, PERCENT	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00932	SODIUM, PERCENT	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00932	SODIUM, PERCENT	06/02/82-06/02/82	0	1	
SLBE0140	Yes	00932	SODIUM, PERCENT	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00932	SODIUM, PERCENT	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00932	SODIUM, PERCENT	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00932	SODIUM, PERCENT	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00932	SODIUM, PERCENT	07/26/82-07/26/82	0	1	
SLBE0072	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	09/26/79-09/26/79	0	1	
SLBE0106	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/77-09/15/82	5	2	
SLBE0010	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/77-09/15/82	5	2	
SLBE0022	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/19/77-04/19/77	0	3	
SLBE0028	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/14/76-08/24/76	0	6	
SLBE0036	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/24/76-04/19/77	1	12	
SLBE0038	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/24/76-08/24/76	0	9	
SLBE0044	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/15/79-10/27/81	2	4	
SLBE0079	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/80-05/15/80	0	1	
SLBE0080	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/07/71-06/13/72	1	2	
SLBE0084	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/15/79-10/27/81	2	3	
SLBE0093	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	0	2	
SLBE0097	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	0	3	
SLBE0099	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/06/67-11/06/67	0	1	
SLBE0102	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/17/79-10/27/81	2	3	
SLBE0104	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/16/79-10/27/81	2	3	
SLBE0109	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	0	1	
SLBE0116	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/16/79-10/27/81	2	3	
SLBE0121	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/80-08/26/80	0	3	
SLBE0124	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/02/82-06/02/82	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0139	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/82-07/26/82	0	1	
SLBE0008	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/22/68-07/07/77	8	4	
SLBE0021	No	00937	POTASSIUM, TOTAL MG/L AS K)	11/24/92-03/09/93	0	8	
SLBE0022	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/15/74-04/20/87	12	4	
SLBE0023	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/22/68-07/22/68	0	1	
SLBE0025	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/26/75-07/07/77	1	3	
SLBE0028	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-11/03/82	0	70	
SLBE0029	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/07/93-09/07/93	0	1	
SLBE0030	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-11/03/82	0	13	
SLBE0031	No	00937	POTASSIUM, TOTAL MG/L AS K)	11/24/92-03/09/93	0	8	
SLBE0038	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/15/74-04/20/87	12	78	T
SLBE0040	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/13/92-03/09/93	0	50	
SLBE0049	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/22/92-12/22/92	0	1	
SLBE0051	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/07/90-12/07/90	0	1	
SLBE0052	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/22/68-07/22/68	0	1	
SLBE0058	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/03/90-12/03/90	0	1	
SLBE0093	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/25/84-04/30/85	0	3	
SLBE0096	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/28/93-09/28/93	0	1	
SLBE0097	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/25/84-04/30/85	0	4	
SLBE0109	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/03/90-12/03/90	0	1	
SLBE0112	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/28/93-09/28/93	0	1	
SLBE0124	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/07/90-12/07/90	0	1	
SLBE0128	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/08/62-10/03/74	12	17	
SLBE0134	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	09/28/93-09/28/93	0	1	
SLBE0005	No	00940	CHLORIDE, TOTAL IN WATER MG/L	06/23/71-06/23/71	0	1	
SLBE0008	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/22/68-05/12/81	12	73	T,S
SLBE0009	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/77-09/15/82	5	2	
SLBE0010	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/77-09/15/82	5	2	
SLBE0022	No	00940	CHLORIDE, TOTAL IN WATER MG/L	03/21/73-04/20/87	14	8	
SLBE0023	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/22/68-05/12/81	12	27	
SLBE0025	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/26/75-05/12/81	5	70	
SLBE0026	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/18/75-07/18/75	0	1	
SLBE0028	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/14/76-11/03/82	6	76	
SLBE0029	No	00940	CHLORIDE, TOTAL IN WATER MG/L	05/18/93-09/07/93	0	5	
SLBE0030	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/21/82-11/03/82	0	13	
SLBE0036	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/24/76-04/19/77	1	12	
SLBE0038	No	00940	CHLORIDE, TOTAL IN WATER MG/L	09/15/74-04/20/87	12	89	T,S
SLBE0039	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/23/76-10/11/76	0	10	
SLBE0044	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/14/79-10/28/81	2	3	
SLBE0052	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/22/68-07/22/68	0	1	
SLBE0057	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/15/79-10/27/81	2	4	
SLBE0079	No	00940	CHLORIDE, TOTAL IN WATER MG/L	05/15/80-05/15/80	0	1	
SLBE0080	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/14/69-06/13/72	2	4	
SLBE0084	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/15/79-10/27/81	2	3	
SLBE0093	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/27/80-04/30/85	4	6	
SLBE0096	No	00940	CHLORIDE, TOTAL IN WATER MG/L	09/28/93-09/28/93	0	1	
SLBE0097	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/27/80-04/30/85	4	9	
SLBE0099	No	00940	CHLORIDE, TOTAL IN WATER MG/L	11/06/67-11/06/67	0	1	
SLBE0102	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/17/79-10/27/81	2	3	
SLBE0104	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/79-10/27/81	2	3	
SLBE0112	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/29/69-09/28/93	24	2	
SLBE0116	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/79-10/27/81	2	3	
SLBE0121	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/26/80-08/26/80	0	3	
SLBE0126	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/27/80-08/27/80	0	1	
SLBE0128	No	00940	CHLORIDE, TOTAL IN WATER MG/L	06/08/62-10/03/74	12	19	
SLBE0132	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/79-10/27/81	2	3	
SLBE0134	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	09/28/93-09/28/93	0	1	
SLBE0137	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0141	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	0	1	
SLBE0143	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/24/76-10/10/76	0	10	
SLBE0144	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/26/82-07/26/82	0	1	
SLBE0146	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/24/76-10/10/76	0	32	
SLBE0148	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	07/26/82-07/26/82	0	1	
SLBE0149	No	00940	CHLORIDE, TOTAL IN WATER MG/L	06/23/71-06/23/71	0	1	
SLBE0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/71-06/23/71	0	1	
SLBE0008	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/80-05/12/81	0	2	
SLBE0009	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/77-09/15/82	5	2	
SLBE0010	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/77-09/15/82	5	2	
SLBE0022	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/20/87-04/20/87	0	1	
SLBE0023	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/80-05/12/81	0	2	
SLBE0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/80-05/12/81	0	2	
SLBE0028	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-11/03/82	0	70	
SLBE0029	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/07/93-09/07/93	0	1	
SLBE0030	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-11/03/82	0	13	
SLBE0038	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/20/87	4	77	
SLBE0044	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/80-08/27/80	0	1	
SLBE0048	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/14/79-10/28/81	2	3	
SLBE0057	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/79-10/27/81	2	4	
SLBE0079	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/79-10/27/81	2	3	
SLBE0093	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/80-04/30/85	4	6	
SLBE0097	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/80-04/30/85	4	9	
SLBE0102	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/17/79-10/27/81	2	3	
SLBE0104	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/80-08/26/80	0	3	
SLBE0106	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/79-10/27/81	2	3	
SLBE0116	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/80-08/26/80	0	1	
SLBE0119	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/79-10/27/81	2	3	
SLBE0121	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/80-08/26/80	0	3	
SLBE0126	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/80-08/27/80	0	1	
SLBE0128	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/62-10/03/74	12	19	
SLBE0132	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/82-07/26/82	0	1	
SLBE0149	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/23/71-06/23/71	0	1	
SLBE0008	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/22/68-09/04/79	11	5	
SLBE0022	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/15/74-04/19/77	2	6	
SLBE0023	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/22/68-09/04/79	11	2	
SLBE0025	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/26/75-09/04/79	4	4	
SLBE0028	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/14/76-08/24/76	0	6	
SLBE0036	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	02/24/76-04/19/77	1	12	
SLBE0038	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/15/74-08/24/76	1	12	
SLBE0051	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-11/05/91	1	4	
SLBE0052	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/22/68-07/22/68	0	1	
SLBE0055	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/09/91-11/05/91	0	2	
SLBE0073	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-11/05/91	1	4	
SLBE0080	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/14/69-06/13/72	2	4	
SLBE0099	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/06/67-11/06/67	0	1	
SLBE0109	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-11/05/91	1	4	
SLBE0124	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-10/10/91	1	4	
SLBE0009	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/27/77-09/15/82	5	2	
SLBE0010	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/07/90	0	2	
SLBE0057	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/03/90	0	2	
SLBE0075	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/15/79-10/27/81	2	4	
SLBE0079	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/15/79-10/27/81	2	3	
SLBE0099	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/06/67-11/06/67	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0102	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/16/79-10/27/81	2	3	
SLBE0109	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/03/90	0	2	
SLBE0119	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/16/79-10/27/81	2	3	
SLBE0124	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/07/90	0	2	
SLBE0126	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/27/80-08/27/80	0	1	
SLBE0128	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/03/74-10/03/74	0	3	
SLBE0132	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/16/79-10/27/81	2	3	
SLBE0008	No	00951	FLUORIDE, TOTAL (MG/L AS F)	08/26/75-09/02/80	5	5	
SLBE0023	No	00951	FLUORIDE, TOTAL (MG/L AS F)	09/04/79-09/02/80	0	2	
SLBE0025	No	00951	FLUORIDE, TOTAL (MG/L AS F)	08/26/75-09/02/80	5	5	
SLBE0009	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/77-09/15/82	5	2	
SLBE0010	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/77-09/15/82	5	2	
SLBE0039	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/23/76-10/11/76	0	10	
SLBE0048	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/07/90	0	2	
SLBE0057	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/03/90	0	2	
SLBE0075	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/79-10/27/81	2	4	
SLBE0079	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/79-10/27/81	2	3	
SLBE0102	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/79-10/27/81	2	3	
SLBE0109	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/03/90	0	2	
SLBE0119	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/79-10/27/81	2	3	
SLBE0124	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/07/90	0	2	
SLBE0126	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/80-08/27/80	0	1	
SLBE0128	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/62-10/05/70	8	11	
SLBE0132	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/82-07/27/82	0	1	
SLBE0143	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/76-10/10/76	0	10	
SLBE0144	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/82-07/26/82	0	1	
SLBE0146	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/76-10/10/76	0	32	
SLBE0148	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/82-07/26/82	0	1	
SLBE0128	No	00956	SILICA, TOTAL (MG/L AS SI02)	10/03/74-10/03/74	0	3	
SLBE0039	No	00957	SILICA, SUSPENDED (MG/L AS SI02)	04/23/76-10/11/76	0	10	
SLBE0143	No	00957	SILICA, SUSPENDED (MG/L AS SI02)	04/24/76-10/10/76	0	10	
SLBE0146	No	00957	SILICA, SUSPENDED (MG/L AS SI02)	04/24/76-10/10/76	0	32	
SLBE0008	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	5	71	
SLBE0022	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/15/74-04/19/77	2	6	
SLBE0023	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	04/17/79-05/12/81	2	26	
SLBE0025	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	5	70	
SLBE0026	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-07/18/75	0	1	
SLBE0028	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	04/14/76-11/03/82	6	76	
SLBE0029	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/07/93-09/07/93	0	1	
SLBE0030	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	04/21/82-11/03/82	0	13	
SLBE0036	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	02/24/76-04/19/77	1	12	
SLBE0038	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/15/74-04/30/85	10	90	T,S
SLBE0044	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/27/80-08/27/80	0	1	
SLBE0080	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/17/70-06/13/72	1	3	
SLBE0093	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/27/80-04/30/85	4	4	
SLBE0097	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/27/80-04/30/85	4	6	
SLBE0104	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/80-08/26/80	0	3	
SLBE0116	Yes	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/80-08/26/80	0	1	
SLBE0121	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/80-08/26/80	0	3	
SLBE0008	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/26/75-08/26/75	0	1	
SLBE0025	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/15/79-10/27/81	2	3	
SLBE0079	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/15/79-10/27/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0102	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/16/79-10/27/81	2	3	
SLBE0109	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/16/79-10/27/81	2	3	
SLBE0124	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/27/80-08/27/80	0	1	
SLBE0128	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/13/70-10/05/70	0	2	
SLBE0132	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/16/79-10/27/81	2	3	
SLBE0008	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/76-09/02/80	4	5	
SLBE0009	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/77-09/15/82	5	2	
SLBE0010	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/77-09/15/82	5	2	
SLBE0023	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/04/79-09/02/80	0	2	
SLBE0025	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/76-09/02/80	4	5	
SLBE0029	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	12/03/90-12/03/90	0	1	
SLBE0096	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/28/93-09/28/93	0	1	
SLBE0109	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/03/90-12/03/90	0	1	
SLBE0112	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/28/93-09/28/93	0	1	
SLBE0124	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/07/90-12/07/90	0	1	
SLBE0134	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	09/28/93-09/28/93	0	1	
SLBE0052	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/24/80-09/25/80	0	21	
SLBE0048	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/15/79-10/27/81	2	3	
SLBE0079	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/15/79-10/27/81	2	3	
SLBE0102	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/16/79-10/27/81	2	3	
SLBE0109	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/16/79-10/27/81	2	3	
SLBE0124	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/16/79-10/27/81	2	3	
SLBE0008	No	01007	BARIUM, TOTAL (UG/L AS BA)	07/07/77-09/12/78	1	2	
SLBE0009	No	01007	BARIUM, TOTAL (UG/L AS BA)	07/27/77-09/15/82	5	2	
SLBE0010	No	01007	BARIUM, TOTAL (UG/L AS BA)	07/27/77-09/15/82	5	2	
SLBE0025	No	01007	BARIUM, TOTAL (UG/L AS BA)	07/07/77-09/12/78	1	2	
SLBE0029	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/07/93-09/07/93	0	1	
SLBE0096	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/28/93-09/28/93	0	1	
SLBE0112	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/28/93-09/28/93	0	1	
SLBE0134	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	09/28/93-09/28/93	0	1	
SLBE0051	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	0	1	
SLBE0109	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	0	1	
SLBE0124	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	0	1	
SLBE0009	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/27/77-09/15/82	5	2	
SLBE0010	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/27/77-09/15/82	5	2	
SLBE0029	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/07/93-09/07/93	0	1	
SLBE0051	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/03/90-12/03/90	0	1	
SLBE0096	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/28/93-09/28/93	0	1	
SLBE0109	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/03/90-12/03/90	0	1	
SLBE0112	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/28/93-09/28/93	0	1	
SLBE0124	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/07/90-12/07/90	0	1	
SLBE0128	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/28/93-09/28/93	0	1	
SLBE0009	No	01015	BISMUTH, DISSOLVED (UG/L AS BI)	09/15/82-09/15/82	0	1	
SLBE0010	No	01015	BISMUTH, DISSOLVED (UG/L AS BI)	09/15/82-09/15/82	0	1	
SLBE0009	No	01022	BORON, TOTAL (UG/L AS B)	07/27/77-09/15/82	5	2	
SLBE0010	No	01022	BORON, TOTAL (UG/L AS B)	07/27/77-09/15/82	5	2	
SLBE0008	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/26/75-08/26/75	0	1	
SLBE0025	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0075	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/15/79-10/27/81	2	3	
SLBE0079	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/15/79-10/27/81	2	3	
SLBE0102	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/16/79-10/27/81	2	3	
SLBE0109	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/16/79-10/27/81	2	3	
SLBE0124	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/16/79-10/27/81	2	3	
SLBE0008	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/76-09/02/80	4	5	
SLBE0009	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/77-09/15/82	5	2	
SLBE0010	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/77-09/15/82	5	2	
SLBE0023	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/04/79-09/02/80	0	2	
SLBE0025	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/76-09/02/80	4	5	
SLBE0029	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	12/07/90-12/07/90	0	1	
SLBE0058	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	12/03/90-12/03/90	0	1	
SLBE0096	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/28/93-09/28/93	0	1	
SLBE0109	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/03/90-12/03/90	0	1	
SLBE0112	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/28/93-09/28/93	0	1	
SLBE0124	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/07/90-12/07/90	0	1	
SLBE0128	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	09/28/93-09/28/93	0	1	
SLBE0008	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/26/75-08/26/75	0	1	
SLBE0025	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/15/79-10/27/81	2	3	
SLBE0079	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/15/79-10/27/81	2	3	
SLBE0102	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/16/79-10/27/81	2	3	
SLBE0109	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/16/79-10/27/81	2	3	
SLBE0124	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/16/79-10/27/81	2	3	
SLBE0029	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/18/93-09/07/93	0	5	
SLBE0096	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/28/93-09/28/93	0	1	
SLBE0112	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/28/93-09/28/93	0	1	
SLBE0134	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/28/93-09/28/93	0	1	
SLBE0008	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/76-09/02/80	4	5	
SLBE0009	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/77-09/15/82	5	2	
SLBE0010	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/77-09/15/82	5	2	
SLBE0023	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/04/79-09/02/80	0	2	
SLBE0025	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/76-09/02/80	4	5	
SLBE0029	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/07/90-12/07/90	0	1	
SLBE0058	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/03/90-12/03/90	0	1	
SLBE0096	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/28/93-09/28/93	0	1	
SLBE0109	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/03/90-12/03/90	0	1	
SLBE0112	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/28/93-09/28/93	0	1	
SLBE0124	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/07/90-12/07/90	0	1	
SLBE0128	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/28/93-09/28/93	0	1	
SLBE0051	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	0	1	
SLBE0079	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/80-05/15/80	0	1	
SLBE0109	No	01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	0	1	
SLBE0124	No	01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	0	1	
SLBE0009	No	01037	COBALT, TOTAL (UG/L AS CO)	07/27/77-09/15/82	5	2	
SLBE0010	No	01037	COBALT, TOTAL (UG/L AS CO)	07/27/77-09/15/82	5	2	
SLBE0029	No	01037	COBALT, TOTAL (UG/L AS CO)	09/07/93-09/07/93	0	1	
SLBE0096	No	01037	COBALT, TOTAL (UG/L AS CO)	09/28/93-09/28/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0112	No	01037	COBALT, TOTAL (UG/L AS CO)	09/28/93-09/28/93	0	1	
SLBE0128	No	01037	COBALT, TOTAL (UG/L AS CO)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01037	COBALT, TOTAL (UG/L AS CO)	09/28/93-09/28/93	0	1	
SLBE0008	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/26/75-08/26/75	0	1	
SLBE0025	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/26/75-08/26/75	0	1	
SLBE0051	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	0	1	
SLBE0079	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/80-05/15/80	0	1	
SLBE0109	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	0	1	
SLBE0124	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	0	1	
SLBE0008	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/76-09/02/80	4	5	
SLBE0009	No	01042	COPPER, TOTAL (UG/L AS CU)	07/27/77-09/15/82	5	2	
SLBE0010	No	01042	COPPER, TOTAL (UG/L AS CU)	07/27/77-09/15/82	5	2	
SLBE0023	No	01042	COPPER, TOTAL (UG/L AS CU)	09/04/79-09/02/80	0	2	
SLBE0025	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/76-09/02/80	4	5	
SLBE0029	No	01042	COPPER, TOTAL (UG/L AS CU)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01042	COPPER, TOTAL (UG/L AS CU)	12/07/90-12/07/90	0	1	
SLBE0058	No	01042	COPPER, TOTAL (UG/L AS CU)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	01042	COPPER, TOTAL (UG/L AS CU)	12/03/90-12/03/90	0	1	
SLBE0093	No	01042	COPPER, TOTAL (UG/L AS CU)	09/27/73-09/27/73	0	2	
SLBE0096	No	01042	COPPER, TOTAL (UG/L AS CU)	09/28/93-09/28/93	0	1	
SLBE0097	No	01042	COPPER, TOTAL (UG/L AS CU)	09/27/73-09/27/73	0	4	
SLBE0109	No	01042	COPPER, TOTAL (UG/L AS CU)	12/03/90-12/03/90	0	1	
SLBE0112	No	01042	COPPER, TOTAL (UG/L AS CU)	09/28/93-09/28/93	0	1	
SLBE0124	No	01042	COPPER, TOTAL (UG/L AS CU)	12/07/90-12/07/90	0	1	
SLBE0128	No	01042	COPPER, TOTAL (UG/L AS CU)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	01042	COPPER, TOTAL (UG/L AS CU)	09/28/93-09/28/93	0	1	
SLBE0009	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/15/82-09/15/82	0	1	
SLBE0010	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/15/82-09/15/82	0	1	
SLBE0008	No	01045	IRON, TOTAL (UG/L AS FE)	07/22/68-09/02/80	12	6	
SLBE0009	No	01045	IRON, TOTAL (UG/L AS FE)	07/27/77-09/15/82	5	2	
SLBE0010	No	01045	IRON, TOTAL (UG/L AS FE)	07/27/77-09/15/82	5	2	
SLBE0022	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/74-04/19/77	2	6	
SLBE0023	No	01045	IRON, TOTAL (UG/L AS FE)	07/22/68-09/02/80	12	3	
SLBE0025	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/76-09/02/80	4	5	
SLBE0028	No	01045	IRON, TOTAL (UG/L AS FE)	04/14/76-08/24/76	0	6	
SLBE0029	No	01045	IRON, TOTAL (UG/L AS FE)	09/07/93-09/07/93	0	1	
SLBE0036	No	01045	IRON, TOTAL (UG/L AS FE)	02/24/76-04/19/77	1	12	
SLBE0038	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/74-08/24/76	1	12	
SLBE0051	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/07/90-11/05/91	0	3	
SLBE0052	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/22/68-07/22/68	0	1	
SLBE0055	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/09/91-11/05/91	0	2	
SLBE0073	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/03/90-11/05/91	0	3	
SLBE0093	No	01045	IRON, TOTAL (UG/L AS FE)	09/27/73-09/27/73	0	2	
SLBE0096	No	01045	IRON, TOTAL (UG/L AS FE)	09/28/93-09/28/93	0	1	
SLBE0097	No	01045	IRON, TOTAL (UG/L AS FE)	09/27/73-09/27/73	0	4	
SLBE0099	No	01045	IRON, TOTAL (UG/L AS FE)	11/06/67-11/06/67	0	1	
SLBE0109	No	01045	IRON, TOTAL (UG/L AS FE)	12/03/90-11/05/91	0	3	
SLBE0112	No	01045	IRON, TOTAL (UG/L AS FE)	09/28/93-09/28/93	0	1	
SLBE0124	No	01045	IRON, TOTAL (UG/L AS FE)	12/07/90-10/10/91	0	3	
SLBE0128	No	01045	IRON, TOTAL (UG/L AS FE)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01045	IRON, TOTAL (UG/L AS FE)	09/28/93-09/28/93	0	1	
SLBE0008	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/26/75-08/26/75	0	1	
SLBE0009	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/27/77-09/15/82	5	2	
SLBE0010	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/27/77-09/15/82	5	2	
SLBE0025	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/15/79-10/27/81	2	4	
SLBE0079	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/15/79-10/27/81	2	3	
SLBE0102	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/16/79-10/27/81	2	3	
SLBE0109	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/16/79-10/27/81	2	3	
SLBE0124	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/16/79-10/27/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0008	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/26/75-08/26/75	0	1	
SLBE0025	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/15/79-10/27/81	2	3	
SLBE0079	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/15/79-10/27/81	2	3	
SLBE0102	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/16/79-10/27/81	2	3	
SLBE0109	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/16/79-10/27/81	2	3	
SLBE0124	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/16/79-10/27/81	2	3	
SLBE0008	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/76-09/02/80	4	5	
SLBE0009	No	01051	LEAD, TOTAL (UG/L AS PB)	07/27/77-09/15/82	5	2	
SLBE0010	No	01051	LEAD, TOTAL (UG/L AS PB)	07/27/77-09/15/82	5	2	
SLBE0023	No	01051	LEAD, TOTAL (UG/L AS PB)	09/04/79-09/02/80	0	2	
SLBE0025	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/76-09/02/80	4	5	
SLBE0029	No	01051	LEAD, TOTAL (UG/L AS PB)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01051	LEAD, TOTAL (UG/L AS PB)	12/07/90-12/07/90	0	1	
SLBE0058	No	01051	LEAD, TOTAL (UG/L AS PB)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	01051	LEAD, TOTAL (UG/L AS PB)	12/03/90-12/03/90	0	1	
SLBE0096	No	01051	LEAD, TOTAL (UG/L AS PB)	09/28/93-09/28/93	0	1	
SLBE0109	No	01051	LEAD, TOTAL (UG/L AS PB)	12/03/90-12/03/90	0	1	
SLBE0112	No	01051	LEAD, TOTAL (UG/L AS PB)	09/28/93-09/28/93	0	1	
SLBE0124	No	01051	LEAD, TOTAL (UG/L AS PB)	12/07/90-12/07/90	0	1	
SLBE0128	No	01051	LEAD, TOTAL (UG/L AS PB)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	01051	LEAD, TOTAL (UG/L AS PB)	09/28/93-09/28/93	0	1	
SLBE0009	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/27/77-09/15/82	5	2	
SLBE0010	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/27/77-09/15/82	5	2	
SLBE0008	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/76-09/02/80	4	5	
SLBE0009	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/77-09/15/82	5	2	
SLBE0010	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/77-09/15/82	5	2	
SLBE0023	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/04/79-09/02/80	0	2	
SLBE0025	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/76-09/02/80	4	5	
SLBE0029	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/07/93-09/07/93	0	1	
SLBE0051	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/90-12/07/90	0	1	
SLBE0058	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/03/90-12/03/90	0	1	
SLBE0093	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/27/73-09/27/73	0	2	
SLBE0096	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/93-09/28/93	0	1	
SLBE0097	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/27/73-09/27/73	0	4	
SLBE0109	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/03/90-12/03/90	0	1	
SLBE0112	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/93-09/28/93	0	1	
SLBE0124	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/90-12/07/90	0	1	
SLBE0128	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/93-09/28/93	0	1	
SLBE0008	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/75-08/26/75	0	1	
SLBE0009	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/27/77-09/15/82	5	2	
SLBE0010	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/27/77-09/15/82	5	2	
SLBE0025	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/79-10/27/81	2	4	
SLBE0079	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/79-10/27/81	2	3	
SLBE0102	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/79-10/27/81	2	3	
SLBE0109	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/79-10/27/81	2	3	
SLBE0124	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/79-10/27/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0051	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	0	1	
SLBE0109	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	0	1	
SLBE0124	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	0	1	
SLBE0009	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/27/77-09/15/82	5	2	
SLBE0010	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/27/77-09/15/82	5	2	
SLBE0029	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	09/07/93-09/07/93	0	1	
SLBE0051	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/03/90-12/03/90	0	1	
SLBE0096	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	09/28/93-09/28/93	0	1	
SLBE0109	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/03/90-12/03/90	0	1	
SLBE0112	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	09/28/93-09/28/93	0	1	
SLBE0124	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/07/90-12/07/90	0	1	
SLBE0134	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	09/28/93-09/28/93	0	1	
SLBE0008	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/26/75-08/26/75	0	1	
SLBE0025	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/26/75-08/26/75	0	1	
SLBE0051	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	0	1	
SLBE0079	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/80-05/15/80	0	1	
SLBE0109	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	0	1	
SLBE0124	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	0	1	
SLBE0008	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/76-09/02/80	4	5	
SLBE0009	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/27/77-09/15/82	5	2	
SLBE0010	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/27/77-09/15/82	5	2	
SLBE0023	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/04/79-09/02/80	0	2	
SLBE0025	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/76-09/02/80	4	5	
SLBE0029	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	12/07/90-12/07/90	0	1	
SLBE0058	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/31/77-07/31/77	0	1	
SLBE0073	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	12/03/90-12/03/90	0	1	
SLBE0096	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/28/93-09/28/93	0	1	
SLBE0109	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/03/90-12/03/90	0	1	
SLBE0112	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/28/93-09/28/93	0	1	
SLBE0124	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/07/90-12/07/90	0	1	
SLBE0128	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	09/28/93-09/28/93	0	1	
SLBE0052	Yes	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/24/80-09/25/80	0	21	
SLBE0008	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/75-08/26/75	0	1	
SLBE0025	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/15/79-10/27/81	2	3	
SLBE0079	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/15/79-10/27/81	2	3	
SLBE0102	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/16/79-10/27/81	2	3	
SLBE0109	No	01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/16/79-10/27/81	2	3	
SLBE0124	No	01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/16/79-10/27/81	2	3	
SLBE0008	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/76-09/02/80	4	5	
SLBE0009	No	01077	SILVER, TOTAL (UG/L AS AG)	07/27/77-09/15/82	5	2	
SLBE0010	No	01077	SILVER, TOTAL (UG/L AS AG)	07/27/77-09/15/82	5	2	
SLBE0023	No	01077	SILVER, TOTAL (UG/L AS AG)	09/04/79-09/02/80	0	2	
SLBE0025	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/76-09/02/80	4	5	
SLBE0029	No	01077	SILVER, TOTAL (UG/L AS AG)	05/18/93-09/07/93	0	5	
SLBE0096	No	01077	SILVER, TOTAL (UG/L AS AG)	09/28/93-09/28/93	0	1	
SLBE0112	No	01077	SILVER, TOTAL (UG/L AS AG)	09/28/93-09/28/93	0	1	
SLBE0128	No	01077	SILVER, TOTAL (UG/L AS AG)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01077	SILVER, TOTAL (UG/L AS AG)	09/28/93-09/28/93	0	1	
SLBE0051	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	0	1	
SLBE0079	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/80-05/15/80	0	1	
SLBE0109	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	0	1	
SLBE0124	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	0	1	
SLBE0009	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	07/27/77-09/15/82	5	2	
SLBE0010	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	07/27/77-09/15/82	5	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0009	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/15/82-09/15/82	0	1	
SLBE0010	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/15/82-09/15/82	0	1	
SLBE0051	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	0	1	
SLBE0079	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/80-05/15/80	0	1	
SLBE0109	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	0	1	
SLBE0124	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	0	1	
SLBE0029	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/07/93-09/07/93	0	1	
SLBE0096	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/28/93-09/28/93	0	1	
SLBE0112	No	01087	VANADIUM, TOTAL (UG/L AS V)	09/28/93-09/28/93	0	1	
SLBE0128	No	01087	VANADIUM, TOTAL (UG/L AS V)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01087	VANADIUM, TOTAL (UG/L AS V)	09/28/93-09/28/93	0	1	
SLBE0008	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/75-08/26/75	0	1	
SLBE0025	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/14/79-10/28/81	2	3	
SLBE0051	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/15/79-10/27/81	2	3	
SLBE0079	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/15/79-10/27/81	2	3	
SLBE0102	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/16/79-10/27/81	2	3	
SLBE0109	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/16/79-10/27/81	2	3	
SLBE0124	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/16/79-10/27/81	2	3	
SLBE0008	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/76-09/02/80	4	5	
SLBE0009	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/27/77-09/15/82	5	2	
SLBE0010	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/27/77-09/15/82	5	2	
SLBE0023	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/04/79-09/02/80	0	2	
SLBE0025	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/76-09/02/80	4	5	
SLBE0029	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/03/90-12/03/90	0	1	
SLBE0093	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/27/73-09/27/73	0	2	
SLBE0096	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/28/93-09/28/93	0	1	
SLBE0097	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/27/73-09/27/73	0	4	
SLBE0109	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/03/90-12/03/90	0	1	
SLBE0112	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/28/93-09/28/93	0	1	
SLBE0124	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/90-12/07/90	0	1	
SLBE0128	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/13/70-10/03/74	4	10	
SLBE0134	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	09/28/93-09/28/93	0	1	
SLBE0029	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/07/93-09/07/93	0	1	
SLBE0096	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/28/93-09/28/93	0	1	
SLBE0112	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/28/93-09/28/93	0	1	
SLBE0134	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	09/28/93-09/28/93	0	1	
SLBE0009	No	01100	TIN, DISSOLVED (UG/L AS SN)	09/15/82-09/15/82	0	1	
SLBE0010	No	01100	TIN, DISSOLVED (UG/L AS SN)	09/15/82-09/15/82	0	1	
SLBE0128	No	01102	TIN, TOTAL (UG/L AS SN)	10/03/74-10/03/74	0	3	
SLBE0009	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/77-09/15/82	5	2	
SLBE0010	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/77-09/15/82	5	2	
SLBE0029	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/07/93-09/07/93	0	1	
SLBE0051	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/90-11/05/91	0	3	
SLBE0055	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/09/91-11/05/91	0	2	
SLBE0073	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/03/90-11/05/91	0	3	
SLBE0096	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/28/93-09/28/93	0	1	
SLBE0109	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/03/90-11/05/91	0	3	
SLBE0112	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/28/93-09/28/93	0	1	
SLBE0124	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/90-10/10/91	0	3	
SLBE0128	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/28/93-09/28/93	0	1	
SLBE0079	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/15/80-05/15/80	0	1	
SLBE0009	No	01120	GALLIUM, DISSOLVED (UG/L AS GA)	09/15/82-09/15/82	0	1	
SLBE0010	No	01120	GALLIUM, DISSOLVED (UG/L AS GA)	09/15/82-09/15/82	0	1	
SLBE0009	No	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	09/15/82-09/15/82	0	1	
SLBE0010	No	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	09/15/82-09/15/82	0	1	
SLBE0051	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	0	1	
SLBE0073	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0079	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/80-05/15/80	0	1	
SLBE0109	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	0	1	
SLBE0124	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	0	1	
SLBE0008	No	01132	LITHIUM, TOTAL (UG/L AS LI)	07/07/77-09/02/80	3	4	
SLBE0009	No	01132	LITHIUM, TOTAL (UG/L AS LI)	07/27/77-09/15/82	5	2	
SLBE0010	No	01132	LITHIUM, TOTAL (UG/L AS LI)	07/27/77-09/15/82	5	2	
SLBE0023	No	01132	LITHIUM, TOTAL (UG/L AS LI)	09/04/79-09/02/80	0	2	
SLBE0025	No	01132	LITHIUM, TOTAL (UG/L AS LI)	07/07/77-09/02/80	3	4	
SLBE0029	No	01132	LITHIUM, TOTAL (UG/L AS LI)	09/07/93-09/07/93	0	1	
SLBE0051	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	12/03/90-12/03/90	0	1	
SLBE0096	No	01132	LITHIUM, TOTAL (UG/L AS LI)	09/28/93-09/28/93	0	1	
SLBE0109	No	01132	LITHIUM, TOTAL (UG/L AS LI)	12/03/90-12/03/90	0	1	
SLBE0112	No	01132	LITHIUM, TOTAL (UG/L AS LI)	09/28/93-09/28/93	0	1	
SLBE0124	No	01132	LITHIUM, TOTAL (UG/L AS LI)	12/07/90-12/07/90	0	1	
SLBE0134	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	09/28/93-09/28/93	0	1	
SLBE0008	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/26/75-08/26/75	0	1	
SLBE0025	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/26/75-08/26/75	0	1	
SLBE0048	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/14/79-10/28/81	2	3	
SLBE0057	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/15/79-10/27/81	2	3	
SLBE0079	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/15/79-10/27/81	2	3	
SLBE0102	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/14/80-10/27/81	1	2	
SLBE0119	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/16/79-10/27/81	2	3	
SLBE0126	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/16/79-10/27/81	2	3	
SLBE0106	Yes	01146	SELENIUM, SUSPENDED (UG/L AS SE)	08/16/79-08/16/79	0	1	
SLBE0008	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/76-09/04/79	3	4	
SLBE0009	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/77-09/15/82	5	2	
SLBE0010	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/77-09/15/82	5	2	
SLBE0023	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/04/79-09/04/79	0	1	
SLBE0025	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/76-09/04/79	3	4	
SLBE0029	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/07/93-09/07/93	0	1	
SLBE0051	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	12/03/90-12/03/90	0	1	
SLBE0096	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/28/93-09/28/93	0	1	
SLBE0109	No	01147	SELENIUM, TOTAL (UG/L AS SE)	12/03/90-12/03/90	0	1	
SLBE0112	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/28/93-09/28/93	0	1	
SLBE0124	No	01147	SELENIUM, TOTAL (UG/L AS SE)	12/07/90-12/07/90	0	1	
SLBE0128	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/03/74-10/03/74	0	3	
SLBE0134	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	09/28/93-09/28/93	0	1	
SLBE0009	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/15/82-09/15/82	0	1	
SLBE0010	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/15/82-09/15/82	0	1	
SLBE0008	No	01152	TITANIUM, TOTAL (UG/L AS TI)	07/07/77-09/02/80	3	4	
SLBE0023	No	01152	TITANIUM, TOTAL (UG/L AS TI)	09/04/79-09/02/80	0	2	
SLBE0025	No	01152	TITANIUM, TOTAL (UG/L AS TI)	07/07/77-09/02/80	3	4	
SLBE0029	No	01152	TITANIUM, TOTAL (UG/L AS TI)	09/07/93-09/07/93	0	1	
SLBE0096	No	01152	TITANIUM, TOTAL (UG/L AS TI)	09/28/93-09/28/93	0	1	
SLBE0112	No	01152	TITANIUM, TOTAL (UG/L AS TI)	09/28/93-09/28/93	0	1	
SLBE0134	Yes	01152	TITANIUM, TOTAL (UG/L AS TI)	09/28/93-09/28/93	0	1	
SLBE0009	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	09/15/82-09/15/82	0	1	
SLBE0010	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	09/15/82-09/15/82	0	1	
SLBE0059	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	20	
SLBE0060	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-06/21/73	4	21	
SLBE0062	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	20	
SLBE0063	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-06/21/73	4	21	
SLBE0076	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	20	
SLBE0080	No	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-06/21/73	4	21	
SLBE0081	No	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	19	
SLBE0082	No	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	20	
SLBE0113	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	19	
SLBE0114	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-08/21/72	3	19	
SLBE0115	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	06/16/69-06/21/73	4	20	
SLBE0059	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	24	
SLBE0060	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-06/21/73	4	25	
SLBE0062	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	24	
SLBE0063	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-06/21/73	4	25	
SLBE0076	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	24	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0080	No	01340	FISH, DEAD (SEVERITY)	06/16/69-06/21/73	4	25	
SLBE0081	No	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	23	
SLBE0082	No	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	24	
SLBE0113	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	24	
SLBE0114	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-08/21/72	3	24	
SLBE0115	Yes	01340	FISH, DEAD (SEVERITY)	06/16/69-06/21/73	4	25	
SLBE0059	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0060	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0062	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0063	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0076	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0080	No	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0081	No	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0082	No	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0113	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0114	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0115	Yes	01350	TURBIDITY (SEVERITY)	06/16/69-08/17/70	1	12	
SLBE0022	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	03/21/73-03/21/73	0	1	
SLBE0128	No	02060	INVALID PARAMETER	08/13/70-08/13/70	0	1	
SLBE0128	No	03401	INVALID PARAMETER	08/13/70-10/05/70	0	2	
SLBE0128	No	04201	HYDROGEN, DRY WEIGHT, MOLLUSK TISSUE %	08/13/70-10/05/70	0	2	
SLBE0128	No	05000	INVALID PARAMETER	08/13/70-10/05/70	0	2	
SLBE0128	No	05101	INVALID PARAMETER	08/13/70-10/05/70	0	2	
SLBE0128	No	06701	INVALID PARAMETER	08/13/70-10/05/70	0	2	
SLBE0009	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	09/15/82-09/15/82	0	1	
SLBE0010	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	09/15/82-09/15/82	0	1	
SLBE0010	No	22703	URANIUM, NATURAL, DISSOLVED	09/15/82-09/15/82	0	1	
SLBE0128	No	30000	DIMETHOATE, SOIL, RECOVERABLE MG/KG	08/13/70-10/05/70	0	2	
SLBE0001	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-07/23/68	0	2	
SLBE0004	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-01/08/75	6	37	
SLBE0007	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	4	35	
SLBE0008	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	11	63	T,S
SLBE0012	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	4	35	
SLBE0016	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	4	35	
SLBE0017	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	4	33	
SLBE0018	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	4	36	
SLBE0023	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	11	40	T,S
SLBE0025	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-12/20/77	7	39	
SLBE0026	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/18/75-07/18/75	0	1	
SLBE0029	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-01/08/75	6	37	
SLBE0032	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	4	35	
SLBE0052	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-01/08/75	6	37	
SLBE0059	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0060	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	5	30	
SLBE0062	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0063	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	5	30	
SLBE0076	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0080	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	5	30	
SLBE0081	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0082	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0099	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	11/06/67-11/06/67	0	1	
SLBE0112	No	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/23/68-04/29/69	0	3	
SLBE0113	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0114	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	4	29	
SLBE0115	Yes	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	5	30	
SLBE0001	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-07/23/68	0	2	
SLBE0004	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	6	37	
SLBE0007	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	4	35	
SLBE0008	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	13	116	T,A,S
SLBE0012	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	4	35	
SLBE0016	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	4	35	
SLBE0017	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-09/03/74	3	32	
SLBE0018	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	4	36	
SLBE0023	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	12	63	T,S
SLBE0025	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	10	105	T,A,S
SLBE0026	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/75-07/18/75	0	1	
SLBE0029	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	6	37	
SLBE0032	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	4	34	
SLBE0052	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	6	37	
SLBE0059	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	4	29	
SLBE0060	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	6	31	
SLBE0062	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	4	29	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0063	Yes	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	6	31	
SLBE0076	Yes	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-08/21/72	4	29	
SLBE0080	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	6	31	
SLBE0081	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-08/21/72	4	29	
SLBE0082	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-08/21/72	4	29	
SLBE0099	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	11/06/67-11/06/67	0	1	
SLBE0112	No	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	07/23/68-04/29/69	0	3	
SLBE0113	Yes	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-08/21/72	4	29	
SLBE0114	Yes	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-08/21/72	4	29	
SLBE0115	Yes	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	6	31	
SLBE0048	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/14/79-08/14/79	0	1	
SLBE0057	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/14/79-08/14/79	0	1	
SLBE0072	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/15/79-08/15/79	0	1	
SLBE0075	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	09/26/79-09/26/79	0	1	
SLBE0077	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/15/79-08/15/79	0	1	
SLBE0084	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/15/79-08/15/79	0	1	
SLBE0102	No	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/17/79-08/17/79	0	1	
SLBE0106	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/16/79-08/16/79	0	1	
SLBE0119	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/16/79-08/16/79	0	1	
SLBE0132	Yes	31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	08/16/79-08/16/79	0	1	
SLBE0048	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/14/79-08/14/79	0	1	
SLBE0057	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/14/79-08/14/79	0	1	
SLBE0072	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/15/79-08/15/79	0	1	
SLBE0075	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	09/26/79-09/26/79	0	1	
SLBE0084	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/15/79-08/15/79	0	1	
SLBE0102	No	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/17/79-08/17/79	0	1	
SLBE0106	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/16/79-08/16/79	0	1	
SLBE0119	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/16/79-08/16/79	0	1	
SLBE0132	Yes	31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	08/16/79-08/16/79	0	1	
SLBE0008	No	31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR, 35C, 48H	11/05/75-07/25/78	2	33	
SLBE0025	No	31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR, 35C, 48H	11/05/75-07/25/78	2	33	
SLBE0128	No	31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	10/03/74-10/03/74	0	3	
SLBE0128	No	31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	10/03/74-10/03/74	0	3	
SLBE0008	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	5	58	
SLBE0022	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/15/74-08/25/87	12	4	
SLBE0023	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/17/79-05/12/81	2	24	
SLBE0025	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/12/78-05/12/81	2	9	
SLBE0028	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/24/76-11/03/82	6	15	
SLBE0035	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/92-08/03/92	0	2	
SLBE0036	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/24/76-09/03/91	15	3	
SLBE0038	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/15/74-04/20/87	12	25	
SLBE0039	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/23/76-10/11/76	0	10	
SLBE0040	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	6	168	A
SLBE0042	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-08/18/93	3	7	
SLBE0044	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/27/80-08/27/80	0	1	
SLBE0045	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	0	1	
SLBE0051	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/12/90-09/21/92	2	24	
SLBE0056	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/90-08/04/92	2	2	
SLBE0064	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/28/92-09/21/92	0	6	
SLBE0065	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/20/94	3	11	
SLBE0066	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	0	1	
SLBE0067	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/20/94	3	9	
SLBE0068	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	0	1	
SLBE0069	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	0	1	
SLBE0070	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/20/94	3	11	
SLBE0073	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/13/90-09/23/92	2	24	
SLBE0078	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/30/92-09/23/92	0	6	
SLBE0083	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/90-08/03/90	0	1	
SLBE0085	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/90-08/02/94	3	7	
SLBE0087	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-07/25/90	0	1	
SLBE0089	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-07/25/90	0	2	
SLBE0091	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/24/90-08/03/94	4	4	
SLBE0092	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/24/90-08/03/94	4	4	
SLBE0093	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/27/80-08/29/85	5	4	
SLBE0097	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/27/80-08/29/85	5	4	
SLBE0103	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/27/90	0	2	
SLBE0104	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/02/78-08/26/80	2	2	
SLBE0105	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/28/91-09/14/92	1	14	
SLBE0109	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/14/90-09/14/92	2	17	
SLBE0111	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-08/02/94	4	4	
SLBE0116	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/26/80-08/26/80	0	1	
SLBE0117	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/26/90-08/02/94	4	4	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0120	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/27/90	0	2	
SLBE0121	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/26/80-05/02/89	8	2	
SLBE0123	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/91-08/02/94	3	6	
SLBE0125	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/15/90-09/16/92	2	25	
SLBE0129	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	0	1	
SLBE0130	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-07/21/94	3	11	
SLBE0131	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/06/92-09/16/92	0	6	
SLBE0135	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/26/90-08/02/94	4	4	
SLBE0138	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-08/01/90	0	2	
SLBE0143	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/24/76-10/10/76	0	10	
SLBE0145	Yes	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/31/90-07/31/90	0	2	
SLBE0146	No	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/24/76-10/10/76	0	32	
SLBE0028	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/14/82-07/14/82	0	1	
SLBE0038	No	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/14/82-07/14/82	0	1	
SLBE0008	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/26/75-09/02/80	5	6	
SLBE0009	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0023	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/04/79-09/02/80	0	2	
SLBE0025	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/26/75-09/02/80	5	6	
SLBE0052	Yes	34258	B-BHC-BETA WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34263	DELTA BENZENE HEXACHLORIDE WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34365	ENDOSULFAN, ALPHA WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34370	ENDRIN ALDEHYDE WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34667	PCB - 1232 WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34669	PCB - 1248 WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34670	PCB - 1260 WET WGT TISM/G/KG	09/24/80-09/29/81	1	63	
SLBE0052	Yes	34674	PCB - 1016 WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/24/80-09/29/81	1	63	
SLBE0052	Yes	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGT T, MG/KG	09/24/80-09/25/80	0	21	
SLBE0052	Yes	34685	ENDRIN WET WGT TISM/G/KG	09/27/81-09/29/81	0	42	
SLBE0052	Yes	34686	HEPTACHLOR EPOXIDE WET WGT TISM/G/KG	09/24/80-09/29/81	1	63	
SLBE0052	Yes	34687	HEPTACHLOR WET WGT TISM/G/KG	09/24/80-09/29/81	1	63	
SLBE0052	Yes	34688	HEXACHLOROBENZENE WET WGT TISM/G/KG	09/24/80-09/25/80	0	21	
SLBE0052	Yes	34689	PCB - 1242 WET WGT TISM/G/KG	09/24/80-09/29/81	1	63	
SLBE0022	No	34690	PCB - 1254 WET WGT TISM/G/KG	08/16/72-08/16/72	0	4	
SLBE0052	Yes	34690	PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	8	128	
SLBE0097	No	34690	PCB - 1254 WET WGT TISM/G/KG	08/17/72-08/17/72	0	3	
SLBE0052	Yes	34691	TOXAPHENE WET WGT TISM/G/KG	09/24/80-09/29/81	1	63	
SLBE0128	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/08/62-05/26/63	0	7	
SLBE0009	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	09/15/82-09/15/82	0	1	
SLBE0010	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	09/15/82-09/15/82	0	1	
SLBE0052	Yes	39074	BHC-ALPHA ISOMER, TISSUE UG/G WET WGT	09/27/81-09/29/81	0	42	
SLBE0022	No	39105	PERCENT FAT HEXANE EXTRACTION	08/16/72-08/16/72	0	4	
SLBE0052	Yes	39105	PERCENT FAT HEXANE EXTRACTION	10/27/78-09/29/81	2	108	
SLBE0097	No	39105	PERCENT FAT HEXANE EXTRACTION	08/17/72-08/17/72	0	3	
SLBE0009	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/14/79-08/14/79	0	1	
SLBE0077	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/15/79-08/15/79	0	1	
SLBE0084	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/16/79-08/16/79	0	1	
SLBE0132	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/16/79-08/16/79	0	1	
SLBE0001	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	05/11/72-05/11/72	0	1	
SLBE0022	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	0	4	
SLBE0052	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	09/24/80-09/29/81	1	63	
SLBE0097	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	0	3	
SLBE0001	No	39305	O,P' DDT IN WHOLE WATER SAMPLE (UG/L)	05/11/72-05/11/72	0	1	
SLBE0022	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	0	4	
SLBE0097	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	0	3	
SLBE0022	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	0	4	
SLBE0052	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	09/24/80-09/29/81	1	63	
SLBE0097	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	0	3	
SLBE0022	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/16/72-08/16/72	0	4	
SLBE0052	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/24/80-09/29/81	1	63	
SLBE0097	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/17/72-08/17/72	0	3	
SLBE0009	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/14/79-08/14/79	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0072	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/27/77-09/15/82	5	2	
SLBE0010	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/15/79-08/15/79	0	1	
SLBE0079	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/15/79-08/15/79	0	1	
SLBE0102	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/16/79-08/16/79	0	1	
SLBE0009	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/77-09/15/82	5	2	
SLBE0010	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/15/79-08/15/79	0	1	
SLBE0079	No	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/15/79-08/15/79	0	1	
SLBE0102	No	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/16/79-08/16/79	0	1	
SLBE0001	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	05/11/72-05/11/72	0	1	
SLBE0009	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0001	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	05/11/72-05/11/72	0	1	
SLBE0008	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0009	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0023	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0025	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0029	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0052	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0048	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	

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Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0132	Yes	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0001	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	05/11/72-05/11/72	0	1	
SLBE0008	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0009	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0023	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0025	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0029	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0052	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	23	
SLBE0048	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0052	Yes	39376	DDT SUM ANALOGS INTISSUE WET WGT BASIS	11/09/72-09/29/81	8	128	
SLBE0001	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/11/72-05/11/72	0	1	
SLBE0008	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	20	
SLBE0009	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0023	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	20	
SLBE0025	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	21	
SLBE0029	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	22	
SLBE0052	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	2	21	
SLBE0048	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0126	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0022	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	0	4	
SLBE0052	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	8	128	
SLBE0097	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	0	3	
SLBE0009	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0001	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	05/11/72-05/11/72	0	1	
SLBE0008	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	1	20	
SLBE0023	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	1	20	
SLBE0025	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	1	20	
SLBE0029	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	1	20	
SLBE0052	Yes	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	1	19	
SLBE0052	Yes	39515	PCBS (MG/KG) FISH TISSUE MG/KG	09/24/80-09/29/81	1	63	
SLBE0009	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0084	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0075	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39755	MIREX, TOTAL (UG/L)	09/15/82-09/15/82	0	1	
SLBE0010	No	39755	MIREX, TOTAL (UG/L)	09/15/82-09/15/82	0	1	
SLBE0048	Yes	39756	MIREX, DISSOLVED (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39756	MIREX, DISSOLVED (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39756	MIREX, DISSOLVED (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39756	MIREX, DISSOLVED (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39756	MIREX, DISSOLVED (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39756	MIREX, DISSOLVED (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39756	MIREX, DISSOLVED (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39756	MIREX, DISSOLVED (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39756	MIREX, DISSOLVED (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39756	MIREX, DISSOLVED (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39756	MIREX, DISSOLVED (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39756	MIREX, DISSOLVED (UG/L)	08/16/79-08/16/79	0	1	
SLBE0009	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0048	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0057	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	0	1	
SLBE0072	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0075	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0079	No	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	0	1	
SLBE0102	No	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	0	1	
SLBE0106	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0119	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0126	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	0	1	
SLBE0052	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	09/27/81-09/29/81	0	42	
SLBE0009	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0009	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	5	2	
SLBE0128	No	40000	INVALID PARAMETER	08/13/70-10/05/70	0	2	
SLBE0004	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0007	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0008	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	8	72	
SLBE0012	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0016	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0017	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0018	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0023	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	8	27	
SLBE0025	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	8	71	
SLBE0026	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	07/18/75-07/18/75	0	1	
SLBE0029	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-09/07/93	21	6	
SLBE0032	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0052	Yes	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	0	1	
SLBE0080	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	06/07/71-06/13/72	1	2	
SLBE0096	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	09/28/93-09/28/93	0	1	
SLBE0112	No	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	09/28/93-09/28/93	0	1	
SLBE0134	Yes	47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	09/28/93-09/28/93	0	1	
SLBE0080	No	60050	ALGAE, TOTAL (CELLS/ML)	06/16/69-08/25/69	0	6	
SLBE0128	No	60050	ALGAE, TOTAL (CELLS/ML)	08/13/70-10/05/70	0	7	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0080	No	60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	08/11/69-08/11/69	0	1	
SLBE0080	No	60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	06/30/69-08/11/69	0	2	
SLBE0080	No	60200	ALGAE, COCCOID GREEN (CELLS/ML)	06/30/69-08/25/69	0	3	
SLBE0080	No	60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	07/14/69-07/14/69	0	1	
SLBE0080	No	60290	ALGAE, FLAGELLATE, TOTAL (CELLS/ML)	06/16/69-08/25/69	0	5	
SLBE0080	No	60360	ALGAE, DESMIDS, TOTAL (CELLS/ML)	07/14/69-07/14/69	0	1	
SLBE0080	No	60400	DIATOMS, CENTRIC (/ML)	06/16/69-08/25/69	0	6	
SLBE0080	No	60600	DIATOMS, PENNATE (/ML)	06/16/69-08/25/69	0	6	
SLBE0128	No	61000	INVALID PARAMETER	08/13/70-10/05/70	0	2	
SLBE0058	No	70220	WAVE DIRECTION (WMO CODES 0885 + 0887)	07/31/77-07/31/77	0	1	
SLBE0058	No	70222	WAVE HEIGHT (WMO CODE 1555)	07/31/77-07/31/77	0	1	
SLBE0009	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	07/27/77-09/15/82	5	2	
SLBE0010	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	07/27/77-09/15/82	5	2	
SLBE0028	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	04/21/82-11/03/82	0	70	
SLBE0030	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	04/21/82-11/03/82	0	13	
SLBE0038	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	04/21/82-08/14/84	2	75	
SLBE0040	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	06/17/82-10/01/96	14	177	T
SLBE0048	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/14/79-10/28/81	2	3	
SLBE0057	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/14/79-10/28/81	2	3	
SLBE0072	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/15/79-10/26/81	2	3	
SLBE0075	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	09/26/79-09/26/79	0	1	
SLBE0077	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/15/79-10/27/81	2	4	
SLBE0079	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	05/15/80-05/15/80	0	1	
SLBE0084	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/15/79-10/27/81	2	3	
SLBE0102	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/17/79-10/27/81	2	3	
SLBE0106	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/16/79-10/27/81	2	3	
SLBE0119	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/16/79-10/27/81	2	3	
SLBE0126	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/27/80-08/27/80	0	1	
SLBE0128	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	10/03/74-10/03/74	0	3	
SLBE0132	Yes	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	08/16/79-10/27/81	2	3	
SLBE0009	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/77-09/15/82	5	2	
SLBE0010	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/77-09/15/82	5	2	
SLBE0022	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/74-04/19/77	2	6	
SLBE0028	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/14/76-08/24/76	0	6	
SLBE0036	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/24/76-04/19/77	1	12	
SLBE0038	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/74-08/24/76	1	12	
SLBE0048	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/14/79-10/28/81	2	3	
SLBE0057	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/15/80-10/28/81	1	2	
SLBE0072	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/15/79-10/26/81	2	3	
SLBE0075	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/15/79-10/27/81	2	4	
SLBE0079	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/13/80-10/27/81	1	2	
SLBE0102	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/79-10/27/81	2	3	
SLBE0119	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/79-10/27/81	2	3	
SLBE0132	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/79-10/27/81	2	3	
SLBE0137	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/02/82-06/02/82	0	1	
SLBE0139	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	0	1	
SLBE0140	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	0	1	
SLBE0141	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	0	1	
SLBE0142	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/82-07/26/82	0	1	
SLBE0048	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/14/79-10/28/81	2	3	
SLBE0057	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/14/79-10/28/81	2	3	
SLBE0072	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/15/79-10/26/81	2	3	
SLBE0077	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/15/79-10/27/81	2	4	
SLBE0106	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/16/79-10/27/81	2	3	
SLBE0119	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/27/81-10/27/81	0	1	
SLBE0132	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/16/79-10/27/81	2	3	
SLBE0142	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	07/27/82-07/27/82	0	1	
SLBE0009	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/77-07/27/77	0	1	
SLBE0010	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/77-07/27/77	0	1	
SLBE0048	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/14/79-10/28/81	2	3	
SLBE0057	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/14/79-10/28/81	2	3	
SLBE0072	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/79-10/26/81	2	3	
SLBE0075	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/26/79-09/26/79	0	1	
SLBE0077	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/79-10/27/81	2	4	
SLBE0079	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/15/80-05/15/80	0	1	
SLBE0084	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/79-10/27/81	2	3	
SLBE0102	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/17/79-10/27/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 06/07/62 To 10/01/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0106	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/79-10/27/81	2	3	
SLBE0119	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/79-10/27/81	2	3	
SLBE0126	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/27/80-08/27/80	0	1	
SLBE0132	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/79-10/27/81	2	3	
SLBE0137	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/02/82-06/02/82	0	1	
SLBE0141	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/82-07/27/82	0	1	
SLBE0142	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/82-07/27/82	0	1	
SLBE0144	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/26/82-07/26/82	0	1	
SLBE0004	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0007	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0008	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	13	97	T,A,S
SLBE0009	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-09/15/82	5	2	
SLBE0010	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-09/15/82	5	2	
SLBE0012	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0016	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0017	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0018	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0022	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/67-04/19/77	10	8	
SLBE0023	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-05/12/81	12	42	T,S
SLBE0025	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	8	85	
SLBE0026	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/18/75-07/18/75	0	1	
SLBE0028	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/14/76-11/03/82	6	76	
SLBE0029	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0030	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/21/82-11/03/82	0	13	
SLBE0032	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	2	15	
SLBE0036	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/24/76-04/19/77	1	12	
SLBE0038	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/15/74-04/30/85	10	90	T
SLBE0044	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/27/80-08/27/80	0	1	
SLBE0052	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-01/08/75	6	16	
SLBE0080	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/14/69-06/13/72	2	4	
SLBE0093	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/27/73-04/30/85	11	8	
SLBE0097	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/67-04/30/85	18	14	
SLBE0099	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/06/67-11/06/67	0	1	
SLBE0104	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/02/78-08/26/80	2	6	
SLBE0112	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/68-10/07/68	0	1	
SLBE0116	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/26/80-08/26/80	0	1	
SLBE0121	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/26/80-08/26/80	0	3	
SLBE0039	No	70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	04/23/76-10/11/76	0	5	
SLBE0143	No	70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	04/24/76-10/10/76	0	5	
SLBE0146	No	70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	04/24/76-10/10/76	0	5	
SLBE0137	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/02/82-06/02/82	0	1	
SLBE0005	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/23/71-06/23/71	0	1	
SLBE0048	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/14/79-05/15/80	0	2	
SLBE0072	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/79-05/12/80	0	3	
SLBE0079	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/79-05/13/80	0	2	
SLBE0102	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/16/79-05/14/80	0	2	
SLBE0126	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/16/79-05/14/80	0	2	
SLBE0149	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/23/71-06/23/71	0	1	
SLBE0048	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/14/79-05/15/80	0	2	
SLBE0057	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/14/79-05/15/80	0	2	
SLBE0072	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/15/79-05/13/80	0	2	
SLBE0075	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/15/79-05/12/80	0	3	
SLBE0079	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/15/79-05/13/80	0	2	
SLBE0102	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/17/79-05/14/80	0	2	
SLBE0106	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/16/79-05/14/80	0	2	
SLBE0119	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/16/79-05/14/80	0	2	
SLBE0126	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/16/79-05/14/80	0	2	
SLBE0009	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/15/82-09/15/82	0	1	
SLBE0010	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/15/82-09/15/82	0	1	
SLBE0009	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	07/27/77-07/27/77	0	1	
SLBE0010	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	07/27/77-07/27/77	0	1	
SLBE0048	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/14/79-10/28/81	2	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0051	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	0	1	
SLBE0057	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/14/79-10/28/81	2	3	
SLBE0072	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/15/79-10/26/81	2	3	
SLBE0073	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	0	1	
SLBE0075	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/26/79-09/26/79	0	1	
SLBE0077	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/15/79-10/27/81	2	3	
SLBE0079	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/15/79-10/27/81	2	3	
SLBE0102	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/17/79-10/27/81	2	3	
SLBE0106	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/16/79-10/27/81	2	3	
SLBE0109	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	0	1	
SLBE0119	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/16/79-10/27/81	2	3	
SLBE0124	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	0	1	
SLBE0126	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/27/80-08/27/80	0	1	
SLBE0132	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/16/79-10/27/81	2	3	
SLBE0008	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/26/75-09/02/80	5	6	
SLBE0009	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/27/77-09/15/82	5	2	
SLBE0010	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/27/77-09/15/82	5	2	
SLBE0023	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/04/79-09/02/80	0	2	
SLBE0025	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/26/75-09/02/80	5	6	
SLBE0029	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/18/93-09/07/93	0	5	
SLBE0051	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	12/07/90-12/07/90	0	1	
SLBE0073	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	12/03/90-12/03/90	0	1	
SLBE0096	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/28/93-09/28/93	0	1	
SLBE0109	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/03/90-12/03/90	0	1	
SLBE0112	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/28/93-09/28/93	0	1	
SLBE0124	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/07/90-12/07/90	0	1	
SLBE0128	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/70-08/13/70	0	3	
SLBE0134	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	09/28/93-09/28/93	0	1	
SLBE0052	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/09/72-09/25/80	7	25	
SLBE0052	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	0	21	
SLBE0052	Yes	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	0	21	
SLBE0052	Yes	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	0	21	
SLBE0052	Yes	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	0	21	
SLBE0052	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/24/80-09/25/80	0	21	
SLBE0009	No	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	09/15/82-09/15/82	0	1	
SLBE0008	No	80087	BOD, CARBONACEOUS, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	0	1	
SLBE0025	No	80087	BOD, CARBONACEOUS, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	0	1	
SLBE0052	Yes	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	09/27/81-09/29/81	0	42	
SLBE0052	Yes	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/27/81-09/29/81	0	42	
SLBE0045	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0066	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0068	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0071	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0085	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	0	1	
SLBE0086	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0090	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0094	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0110	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0111	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	0	1	
SLBE0117	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	0	1	
SLBE0118	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0122	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0123	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	0	1	
SLBE0129	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0135	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	0	1	
SLBE0136	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	0	1	
SLBE0035	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/23/90-08/03/92	2	6	
SLBE0040	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/07/96-10/01/96	0	36	
SLBE0042	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/25/90-08/03/92	2	6	
SLBE0051	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/06/90-09/21/92	2	22	
SLBE0056	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/90-08/04/92	2	3	
SLBE0064	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/06/90-09/21/92	2	22	
SLBE0065	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/27/90-08/04/92	2	6	
SLBE0067	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/27/90-08/06/92	2	6	
SLBE0070	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/27/90-08/04/92	2	6	
SLBE0073	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/07/90-09/23/92	2	22	
SLBE0078	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/07/90-09/23/92	2	21	
SLBE0083	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/90-08/03/90	0	2	
SLBE0085	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/90-08/05/92	2	6	
SLBE0087	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/25/90-07/25/90	0	1	
SLBE0089	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/25/90-07/25/90	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 06/07/62 To 10/01/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
SLBE0091	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/24/90-07/24/90	0	3	
SLBE0092	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/24/90-07/24/90	0	2	
SLBE0103	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/27/90-07/27/90	0	3	
SLBE0105	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/12/90-09/14/92	2	23	
SLBE0109	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/12/90-09/14/92	2	23	
SLBE0111	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/05/92	2	3	
SLBE0117	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/26/90-08/06/92	2	3	
SLBE0120	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/27/90-07/27/90	0	3	
SLBE0123	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/04/92	2	5	
SLBE0125	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/13/90-09/16/92	2	23	
SLBE0130	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/05/92	2	6	
SLBE0131	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/13/90-09/16/92	2	22	
SLBE0135	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/26/90-08/07/92	2	4	
SLBE0138	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	08/01/90-08/01/90	0	2	
SLBE0145	Yes	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/31/90-07/31/90	0	2	
SLBE0137	Yes	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	06/02/82-06/02/82	0	1	
SLBE0009	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	09/15/82-09/15/82	0	1	
SLBE0010	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	09/15/82-09/15/82	0	1	
SLBE0051	Yes	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-11/05/91	1	4	
SLBE0055	Yes	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/09/91-11/05/91	0	2	
SLBE0073	Yes	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-11/05/91	1	4	
SLBE0109	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-11/05/91	1	4	
SLBE0124	No	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-10/10/91	1	4	
SLBE0009	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/77-09/15/82	5	2	
SLBE0010	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/77-09/15/82	5	2	
SLBE0075	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/26/79-09/26/79	0	1	
SLBE0079	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/27/81-10/27/81	0	1	
SLBE0102	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/27/81-10/27/81	0	1	
SLBE0119	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/27/81-10/27/81	0	1	
SLBE0126	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/27/80-08/27/80	0	1	
SLBE0137	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/02/82-06/02/82	0	1	
SLBE0142	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/26/82-07/26/82	0	1	
SLBE0009	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/77-09/15/82	5	2	
SLBE0010	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/77-09/15/82	5	2	
SLBE0075	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/26/79-09/26/79	0	1	
SLBE0079	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/15/80-05/15/80	0	1	
SLBE0084	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/27/81-10/27/81	0	1	
SLBE0102	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/27/81-10/27/81	0	1	
SLBE0119	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/27/81-10/27/81	0	1	
SLBE0126	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/27/80-08/27/80	0	1	
SLBE0137	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/02/82-06/02/82	0	1	
SLBE0142	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/82-07/27/82	0	1	
SLBE0144	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/26/82-07/26/82	0	1	
SLBE0148	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/26/82-07/26/82	0	1	
SLBE0022	No	84007	ANATOMY ALPHA CODE	08/16/72-08/16/72	0	4	
SLBE0052	Yes	84007	ANATOMY ALPHA CODE	11/09/72-09/29/81	8	128	
SLBE0097	No	84007	ANATOMY ALPHA CODE	08/17/72-08/17/72	0	3	
SLBE0022	No	84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE	08/16/72-08/16/72	0	4	
SLBE0097	No	84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE	08/17/72-08/17/72	0	3	
SLBE0052	Yes	84015	AGE IN YEARS OF SPECIMEN COLLECTED YEARS	09/27/81-09/29/81	0	42	

¹T=Time Series Plot, A=Annual Plot, S=Seasonal Plot

Station-By-Station Results

Station Inventory for Station: SLBE0001

NPS Station ID: SLBE0001

Location: BETSIE R. AT US-31 BR; BENZONIA TWP, SEC 3

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: BETSIE RIVER

RF1 Index: 04060104015

RF3 Index: 04060104000621.22

Description:

THE BETSIE RIVER NEAR ITS MOUTH AT THE US 31 BRIDGE IN BENZIE COUNTY.

LAT/LON: 44.640281/ -86.099727

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 5.210

RF3 Mile Point: 26.65

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100050

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.03

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0001

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-07/23/68	8	20.	20.25	22.	19.	0.786	0.886	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/22/68-07/23/68	8	8.15	8.238	9.	7.8	0.206	0.453	**	**	**	**
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-07/23/68	2	500.	500.	900.	100.	320000.	565.685	**	**	**	**
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	07/22/68-07/23/68	2	2.477	2.477	2.954	2.	0.455	0.675	**	**	**	**
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			300.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-07/23/68	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-07/23/68	2 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0001

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	8	0	0.00										8	0	0.00
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	2	0	0.00										2	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0002

NPS Station ID: SLBE0002 LAT/LON: 44.641670/ -85.992226

Location: CARTER CR AT BROWNELL RD; HOMESTEAD TWP, SEC 22

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104038100.00

Description:

CARTER CREEK AT BROWNELL ROAD BRIDGE, SECTION 22, HOMESTEAD
WATER QUALITY OF CARTER CREEK PRIOR TO DISCHARGE TO THE PLATTE

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 5.010

RF3 Mile Point: 0.80

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100119

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 13.80

Distance from RF3: 0.04

Date Created: 08/30/80

On/Off RF1: OFF

On/Off RF3:

TOWNSHIP, T26N, R14W, BENZIE COUNTY, MICHIGAN.
RIVER IS DETERMINED AT THIS STATION.

Parameter Inventory for Station: SLBE0002

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/80-05/12/81	12	8.5	8.792	15.5	2.	19.93	4.464	2.6	4.875	12.875	15.35
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/02/80-05/12/81	12	0.011	0.012	0.024	0.005	0.	0.006	0.005	0.009	0.015	0.023

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0003

NPS Station ID: SLBE0003

Location: PLATTE R@ GOOSE CAMPGRNDS; HOMESTEAD TWP SEC 22

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104020

RF3 Index: 04060104002004.60

Description:

PLATTE RIVER APPROXIMATELY 50 YARDS ABOVE LAUNCH SITE AT GOOSE COUNTY, T26N, R14W, SECTION 22, HOMESTEAD TOWNSHIP.

LAT/LON: 44.643337/ -85.978892

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 5.970

RF3 Mile Point: 13.38

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100070

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

0655

GROUND S CAMP GROUND AT PLATTE RIVER STATE FOREST CAMPGROUND, BENZIE

Parameter Inventory for Station: SLBE0003

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0004

NPS Station ID: SLBE0004 LAT/LON: 44.646115/ -85.992505

Location: PLATTE R AT CASE BRIDGE; HOMESTEAD TWP SEC 15

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104002004.60

Description:

PLATTE RIVER AT THE CASE BRIDGE (PIONEER ROAD), BENZIE COUNTY, T26N R14W, SETION 15, HOMESTEAD TOWNSHIP

THIS STAION IS ABOUT THREE MILES DOWNSTREAM FROM THE PLATTE HATCHERY

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100059

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.06

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	55	13.	11.413	22.	0.5	39.459	6.282	3.	6.	17.	19.5
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	9.	8.75	15.	2.	28.917	5.377	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	2.1	5.	1.	1.029	1.015	1.	1.45	2.	4.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	1.25	1.325	2.2	0.6	0.476	0.69	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	300.	301.875	320.	290.	70.982	8.425	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	42	10.2	10.31	13.3	8.	1.76	1.327	8.59	9.475	11.325	12.54
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	34	1.8	1.857	3.9	0.25	0.606	0.779	1.	1.475	2.1	2.9
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.209	8.5	7.9	0.032	0.179	7.9	8.1	8.3	8.5
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.173	8.5	7.9	0.033	0.182	7.9	8.1	8.3	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	35	0.006	0.007	0.013	0.003	0.	0.003	0.003	0.005	0.008	0.013
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	35	6.	6.	20.	0.	23.691	4.867	0.8	3.	10.	12.2
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	1.188	20.	0.	18.713	4.326	0.	0.	0.	4.25
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.06	0.067	0.18	0.02	0.001	0.035	0.03	0.04	0.08	0.12
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.007	0.02	0.	0.	0.006	0.	0.	0.01	0.02
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6	0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.26	0.25	0.36	0.03	0.007	0.085	0.1	0.2	0.315	0.35
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	46	0.028	0.034	0.13	0.01	0.	0.022	0.018	0.02	0.04	0.07
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-01/08/75	37	500.	1858.108	10000.	50.	5749376.877	2397.786	50.	200.	3350.	5620.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/22/68-01/08/75	37	2.699	2.828	4.	1.699	0.49	0.7	1.699	2.301	3.519	3.75
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/22/68-01/08/75	37 ##	5.	11.622	110.	5.	357.02	18.895	5.	5.	10.	22.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	0.699	0.873	2.041	0.699	0.106	0.326	0.699	0.699	1.	1.336
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	0.699	0.873	2.041	0.699	0.106	0.326	0.699	0.699	1.	1.336
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	0.699	0.873	2.041	0.699	0.106	0.326	0.699	0.699	1.	1.336
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	195.	195.	195.	195.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15	0.01	0.014	0.05	0.005	0.	0.013	0.005	0.005	0.02	0.038

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

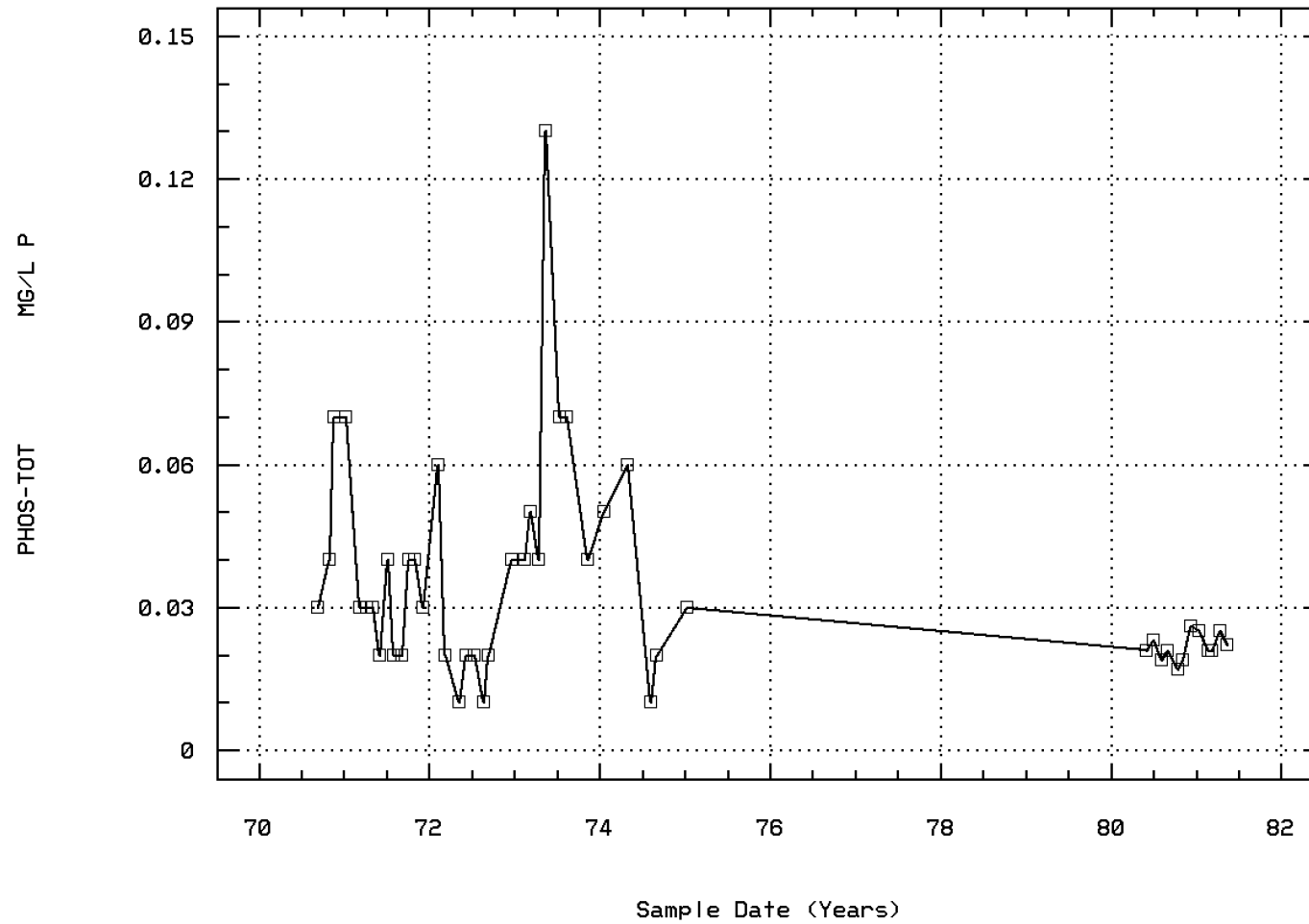
EPA Water Quality Criteria Analysis for Station: SLBE0004

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	42	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	18	0	0.00
00400	PH	9.	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
	Other-Lo Lim.	6.5	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	37	14	0.38	13	7	0.54	7	1	0.14	4	0	0.00	13	6	0.46
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	37	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	13	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0004 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R AT CASE BRIDGE; HOMESTEAD TWP

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	17	14.5	13.441	19.5	7.	22.996	4.795	7.	8.25	18.	19.5
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	13	10.2	10.131	11.4	8.5	0.861	0.928	8.62	9.4	10.85	11.4
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	12	1.6	1.571	3.	0.25	0.516	0.718	0.475	1.	1.975	2.79
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	17	0.02	0.03	0.07	0.01	0.	0.018	0.01	0.019	0.04	0.07

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	10	3.25	3.11	6.	0.5	2.61	1.616	0.56	1.775	4.125	5.85
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	6	12.1	11.933	13.3	10.	1.507	1.227	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	6	2.35	2.367	3.9	0.4	1.867	1.366	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	10	0.035	0.039	0.07	0.021	0.	0.016	0.021	0.026	0.053	0.069

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	7	4.5	5.3	9.5	0.6	8.747	2.957	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	5	11.8	11.34	12.6	9.1	2.058	1.435	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	5	2.	1.94	2.1	1.7	0.033	0.182	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	7	0.03	0.031	0.05	0.02	0.	0.011	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

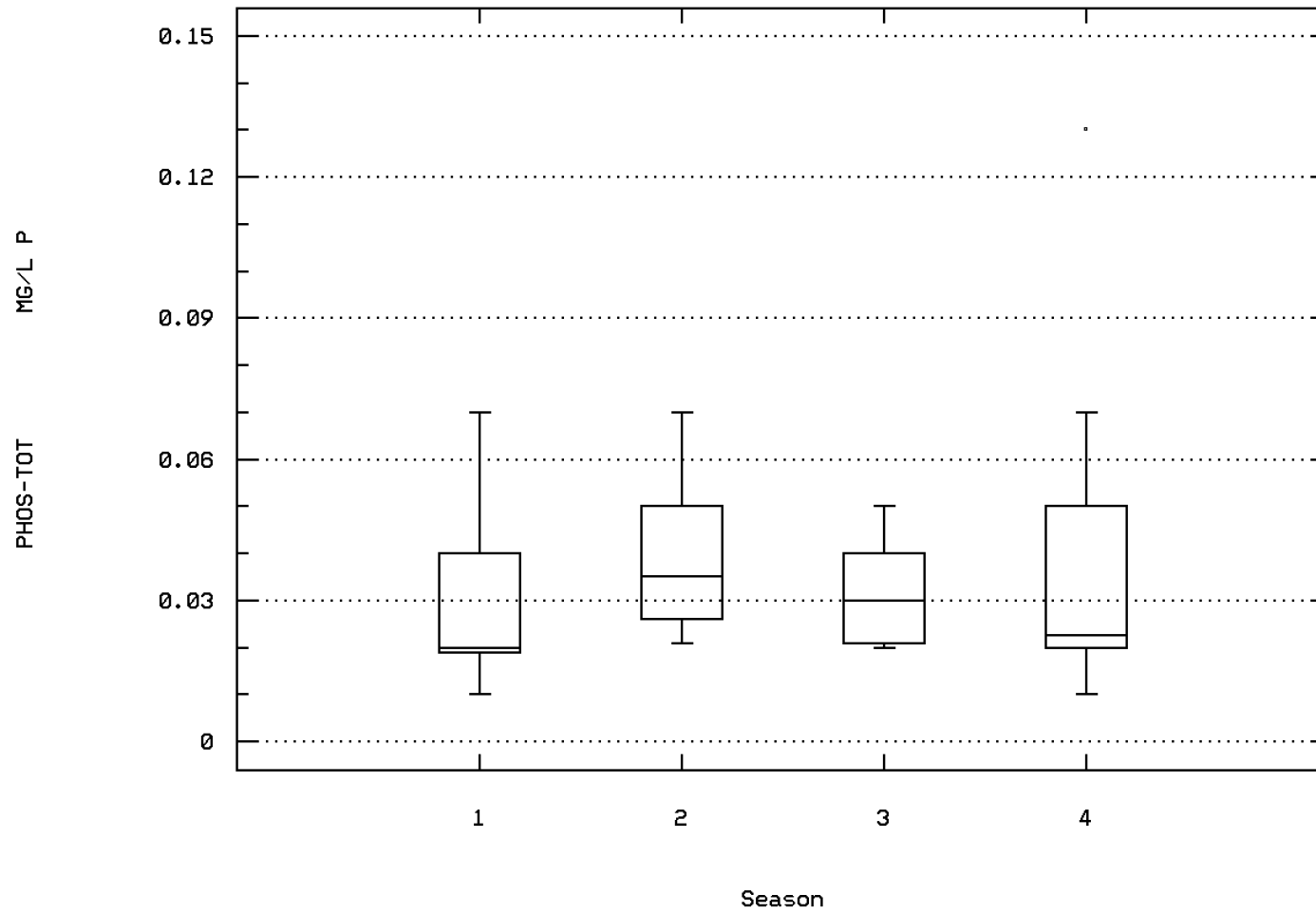
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	21	15.	15.762	22.	8.	13.44	3.666	11.5	13.	18.5	21.4
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	18	9.6	9.611	11.6	8.	0.927	0.963	8.	9.075	10.25	11.15
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	11	1.8	1.855	2.8	1.	0.229	0.478	1.1	1.5	2.	2.72
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.023	0.039	0.13	0.01	0.001	0.034	0.013	0.02	0.055	0.112

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0004 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R AT CASE BRIDGE; HOMESTEAD TWP

Station Inventory for Station: SLBE0005

NPS Station ID: SLBE0005
 Location: PLATTE R AT CASE BRIDGE NEAR HONOR, MICH. .
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104020
 RF3 Index: 04060104002007.79
 Description:

LAT/LON: 44.647504/ -85.990559

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 4.600
 RF3 Mile Point: 14.93

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 04126725
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: SLBE0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061 FLOW, STREAM, INSTANTANEOUS CFS	06/23/71-06/23/71	1	109.	109.	109.	109.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	06/23/71-06/23/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	06/23/71-06/23/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/71-06/23/71	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/23/71-06/23/71	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/23/71-06/23/71	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/71-06/23/71	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	06/23/71-06/23/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	06/23/71-06/23/71	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	06/23/71-06/23/71	1	195.	195.	195.	195.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	06/23/71-06/23/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	06/23/71-06/23/71	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	06/23/71-06/23/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/23/71-06/23/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0005

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00										1	0	0.00
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
	Fresh Acute	860.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0006

NPS Station ID: SLBE0006 Location: UNNAMED OUTLET CRYSTAL LAKE Station Type: /TYP/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: T/BETSIE LAKE Minor Basin: ST HWY 115 BRDG 1.75 MI W BENZONIA RF1 Index: 04060104015 RF3 Index: 04060104000800.00 Description: AT ST HWY 115 BRDG ABOUT 1.75 MI W OF TOWN OF BENZONIA,	LAT/LON: 44.650004/ -86.141670 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 7.820 RF3 Mile Point: 3.18 150 YDS E OF RR TRESTLE	Agency: 11EPALES FIPS State/County: 26000 MICHIGAN/ STORET Station ID(s): 2610B1 /LS2610B1 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.13 On/Off RF1: OFF On/Off RF3:

Parameter Inventory for Station: SLBE0006

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/27/72-10/03/73	13	0.025	0.032	0.082	0.014	0.001	0.022	0.015	0.018	0.038	0.08
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	11/27/72-10/03/73	13 ##	0.001	0.001	0.001	0.001	0.	0.	0.001	0.001	0.001	0.001
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	11/27/72-10/03/73	13	0.047	0.039	0.075	0.005	0.001	0.026	0.008	0.014	0.064	0.073
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/27/72-10/03/73	13	0.54	0.678	1.54	0.12	0.198	0.445	0.128	0.325	1.1	1.404
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/27/72-10/03/73	13	0.05	0.04	0.08	0.005	0.001	0.026	0.007	0.015	0.065	0.076
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/27/72-10/03/73	12 ##	0.004	0.006	0.01	0.003	0.	0.004	0.003	0.003	0.01	0.01
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/27/72-10/03/73	13 ##	0.003	0.003	0.007	0.003	0.	0.002	0.003	0.003	0.003	0.007

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0006

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00	5	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00	5	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00	5	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0007

NPS Station ID: SLBE0007 LAT/LON: 44.655004/ -85.959448

Location: PLATTE R. AT HAZERD BR; HOMESTEAD TWP, SEC 13

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104002004.60

Description:

PLATTE RIVER AT THE HAZE ROAD BRIDGE, BENZIE COUNTY, T26N, R14W, SECTION 13, HOMESTEAD TOWNSHIP

THIS STATION IS ABOUT ONE MILE DOWNSTREAM FROM THE PLATTE HATCHERY

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100058

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.47

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0007

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	36	11.5	10.772	21.5	0.5	42.895	6.549	1.73	4.	16.5	19.65
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	11.	9.75	15.	2.	36.25	6.021	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	2.51	14.	1.	5.357	2.314	1.	2.	2.75	3.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	1.75	1.7	2.5	0.8	0.527	0.726	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	297.5	295.	305.	280.	64.286	8.018	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	35	10.5	10.537	14.1	8.3	1.926	1.388	9.	9.4	11.8	12.14
00310 BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	34	1.7	1.754	4.1	0.25	0.646	0.804	0.7	1.275	2.1	2.85
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.197	8.5	7.8	0.029	0.169	7.96	8.1	8.3	8.44
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.165	8.5	7.8	0.03	0.172	7.96	8.1	8.3	8.44
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	35	0.006	0.007	0.016	0.003	0.	0.003	0.004	0.005	0.008	0.011
00403 PH, LAB, STANDARD UNITS SU	07/11/74-01/08/75	2	8.2	8.2	8.4	8.	0.08	0.283	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/11/74-01/08/75	2	8.155	8.155	8.4	8.	0.084	0.29	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/11/74-01/08/75	2	0.007	0.007	0.01	0.004	0.	0.004	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	35	5.	5.243	18.	0.5	16.858	4.106	1.	2.	8.	10.6
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.045	0.052	0.13	0.02	0.001	0.026	0.027	0.03	0.07	0.09
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.006	0.01	0.	0.	0.004	0.	0.	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.24	0.222	0.34	0.02	0.008	0.087	0.1	0.16	0.3	0.33
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	34	0.03	0.04	0.17	0.01	0.001	0.031	0.015	0.02	0.05	0.07
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	35	500.	2437.143	21000.	50.	17441373.95	4176.287	50.	200.	3100.	6920.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-01/08/75	35	2.699	2.841	4.322	1.699	0.585	0.765	1.699	2.301	3.491	3.821
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			692.866								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	35 ##	5.	7.571	30.	5.	29.958	5.473	5.	5.	10.	14.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	35 ##	0.699	0.816	1.477	0.699	0.044	0.209	0.699	0.699	1.	1.12
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.544								
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	192.	192.	192.	192.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15	0.01	0.01	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0007

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	35	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	11	0	0.00
00400	PH	9.	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
		6.5	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
00403	PH, LAB	9.	2	0	0.00				1	0	0.00				1	0	0.00
		6.5	2	0	0.00				1	0	0.00				1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	35	16	0.46	13	7	0.54	7	1	0.14	4	1	0.25	11	7	0.64
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	35	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	11	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0008

NPS Station ID: SLBE0008 LAT/LON: 44.658337/ -85.938892

Location: PLATTE R. AT US-31 BRIDGE; HOMESTEAD TWP SEC. 12

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104000400.00

Description:

PLATTE RIVER AT US-31 BRIDGE EAST OF HONOR, BENZIE COUNTY, T26N, R14W, SECTION 12, HOMESTEAD TOWNSHIP.

STATION USED FOR TROUT WATER SAMPLING PROGRAM AND INTENSIVE STUDIES

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100015

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.33

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	127	10.	10.324	21.5	0.	41.215	6.42	2.	4.	16.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/06/67-10/08/68	12	15.5	13.417	30.	-2.	125.174	11.188	0.	5.25	21.75
00032	CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	11.	9.75	15.	2.	36.25	6.021	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	11/06/67-04/29/69	13	90.	90.	90.	0.	0.	90.	90.	90.	90.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	2.162	9.	1.	2.561	1.6	1.	1.	2.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	75	1.	1.107	4.4	0.4	0.36	0.6	0.5	0.7	1.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	79	305.	306.582	335.	280.	165.734	12.874	290.	295.	315.
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	126	10.4	10.55	14.	6.9	2.542	1.594	8.77	9.3	12.
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	116	1.7	1.7	3.4	0.25	0.501	0.708	0.8	1.2	2.2
00324	BOD, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	1	2.4	2.4	2.4	0.	0.	0.	**	**	**
00335	COD, .025N K2CR2O7 MG/L	07/18/75-07/25/78	37	8.2	8.208	16.	1.5	11.062	3.326	4.38	6.	9.25
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	118	8.1	8.104	8.6	7.4	0.05	0.224	7.8	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	118	8.1	8.042	8.6	7.4	0.054	0.233	7.8	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	118	0.008	0.009	0.04	0.003	0.	0.006	0.004	0.006	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/67-05/12/81	51	155.	154.941	175.	128.	56.296	7.503	146.2	150.	160.
00500p	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	71	205.	203.789	223.	184.	66.455	8.152	192.	199.	209.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	106	3.	4.08	18.	0.	11.772	3.431	1.	1.	6.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/18/75-03/23/76	8 ##	2.75	3.875	12.	1.5	11.982	3.462	**	**	**
00546	RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	72	0.26	0.287	1.2	0.13	0.018	0.132	0.19	0.22	0.33
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	119	0.052	0.058	0.184	0.	0.001	0.034	0.	0.04	0.074
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.005	0.01	0.	0.	0.004	0.	0.	0.01
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	12/06/67-01/08/75	15	0.005	0.005	0.01	0.	0.	0.005	0.	0.	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/06/67-07/18/75	49	0.25	0.239	0.4	0.02	0.007	0.082	0.1	0.185	0.3
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/79-05/12/81	19	0.3	0.319	0.48	0.19	0.005	0.071	0.24	0.27	0.37
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	70	0.24	0.232	0.36	0.14	0.004	0.061	0.15	0.178	0.283
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	117	0.03	0.034	0.16	0.	0.001	0.022	0.018	0.02	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/18/75-07/25/78	37	3.	3.873	19.	2.	10.373	3.221	2.1	2.6	3.45
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/26/75-09/02/80	6 ##	0.	0.002	0.005	0.	0.	0.002	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	39	165.	163.744	176.	149.	50.196	7.085	152.	160.	169.
00916	CALCIUM, TOTAL (MG/L AS Ca)	07/22/68-07/07/77	3	44.	44.667	46.	44.	1.333	1.155	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/68-07/07/77	3	12.	11.467	12.	10.4	0.853	0.924	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929	SODIUM, TOTAL (MG/L AS NA)	07/22/68-07/07/77	3	2.9	2.833	3.	2.6	0.043	0.208	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/22/68-07/07/77	3	0.53	0.59	0.71	0.53	0.011	0.104	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	07/22/68-05/12/81	72	3.	3.792	60.	2.	45.322	6.732	3.	3.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/80-05/12/81	2	8.	8.	8.	8.	0.	0.	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/22/68-09/04/79	4	11.	10.925	12.	9.7	0.889	0.943	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	08/26/75-09/02/80	5	0.19	0.2	0.26	0.14	0.002	0.044	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	71	3.3	3.172	3.8	2.2	0.119	0.345	2.7	2.9	3.5
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/26/75-08/26/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/76-09/02/80	5 ##	0.5	0.48	1.	0.1	0.127	0.356	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	07/07/77-09/12/78	2	30.	30.	50.	10.	800.	28.284	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/26/75-08/26/75	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/76-09/02/80	5 ##	1.	0.91	2.	0.05	0.528	0.727	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/76-09/02/80	5	1.	1.7	3.	1.	0.95	0.975	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/76-09/02/80	5	2.	3.2	8.	1.	7.7	2.775	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/22/68-09/02/80	5	73.	84.6	120.	50.	860.8	29.339	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/26/75-08/26/75	1	27.	27.	27.	27.	0.	0.	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/26/75-08/26/75	1	11.	11.	11.	11.	0.	0.	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/03/76-09/02/80	5	5.	6.	14.	0.5	27.875	5.28	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/76-09/02/80	5	15.	15.2	31.	5.	95.2	9.757	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/26/75-08/26/75	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/76-09/02/80	5 ##	2.5	5.5	12.	2.5	18.875	4.345	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/75-08/26/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/76-09/02/80	5 ##	1.	0.8	1.	0.5	0.075	0.274	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/75-08/26/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/76-09/02/80	5	10.	11.9	26.	2.5	94.8	9.737	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/07/77-09/02/80	4 ##	1.	0.875	1.	0.5	0.063	0.25	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/26/75-08/26/75	1 ##	1.	1.	1.	1.	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/76-09/04/79	4 ##	0.5	0.55	1.	0.2	0.11	0.332	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	07/07/77-09/02/80	4 ##	25.	28.125	50.	12.5	247.396	15.729	**	**	**
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	63	500.	2392.857	27000.	50.	22047730.415	4695.501	50.	100.	6460.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	63	2.699	2.738	4.431	1.699	0.653	0.808	1.699	2.	3.807
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-05/12/81	116 ##	5.	546.923	610.	1.	6864.61	82.853	4.	5.	50.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	116 ##	0.699	0.979	2.785	0.	0.28	0.529	0.602	0.699	1.699
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	116 ##	0.699	0.979	2.785	0.	0.28	0.529	0.602	0.699	1.699
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	116 ##	0.699	0.979	2.785	0.	0.28	0.529	0.602	0.699	1.699
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	11/05/75-07/25/78	33	130.	245.152	1100.	20.	84094.508	289.991	24.	40.	692.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	11/05/75-07/25/78	33	2.114	2.104	3.041	1.301	0.273	0.523	1.371	1.602	2.84
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	11/05/75-07/25/78	33	2.114	2.104	3.041	1.301	0.273	0.523	1.371	1.602	2.84
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	58	2.	2.038	5.1	0.2	1.359	1.166	0.79	1.075	3.91
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/26/75-09/02/80	6	2.	2.708	6.	0.25	4.01	2.003	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23	0.001	0.003	0.022	0.001	0.	0.005	0.001	0.001	0.008
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23	0.003	0.018	0.163	0.001	0.001	0.036	0.001	0.001	0.056
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	20 ##	0.001	0.	0.001	0.	0.	0.	0.	0.	0.001
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	20 ##	0.005	0.009	0.043	0.003	0.	0.011	0.005	0.007	0.033
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	72	201.5	199.431	218.	145.	107.037	10.346	188.	195.	211.
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	96	0.009	0.01	0.05	0.	0.	0.008	0.	0.005	0.02
71900	MERCURY, TOTAL (UG/L AS HG)	08/26/75-09/02/80	6 ##	0.1	0.183	0.5	0.05	0.029	0.169	**	**	**
80087	BOD, CARBONACEOUS, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0008

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----	-----12/01-2/29-----	-----3/01-4/14-----	-----4/15-7/31-----
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	29	0	0.00	10	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	75	0	0.00	26	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

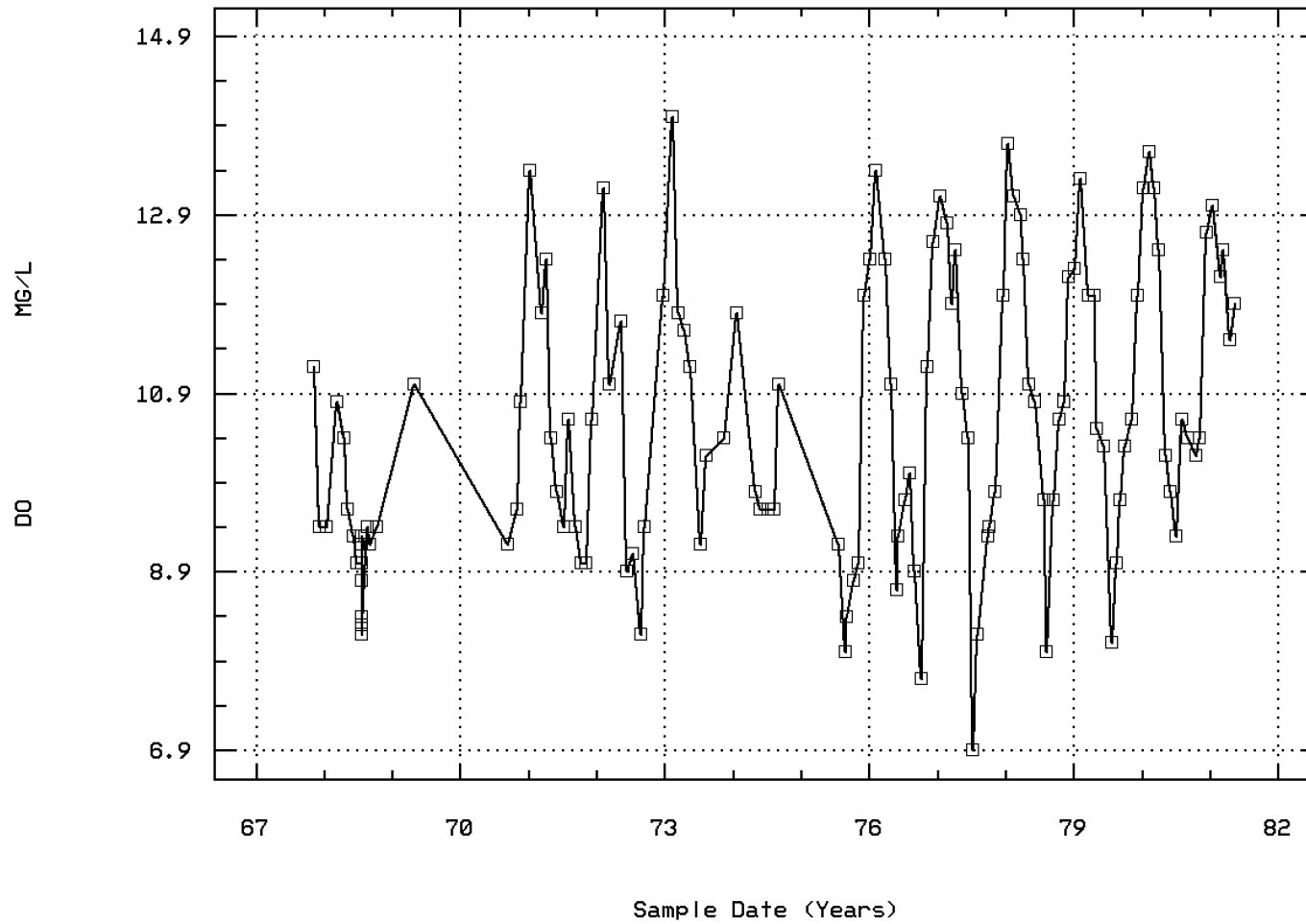
EPA Water Quality Criteria Analysis for Station: SLBE0008

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	126	0	0.00	41	0	0.00	26	0	0.00	16	0	0.00	43	0	0.00
00400 PH	Other-Hi Lim.	9.	118	0	0.00	39	0	0.00	27	0	0.00	16	0	0.00	36	0	0.00
	Other-Lo Lim.	6.5	118	0	0.00	39	0	0.00	27	0	0.00	16	0	0.00	36	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	15	0	0.00	4	0	0.00	3	0	0.00	1	0	0.00	7	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	49	0	0.00	16	0	0.00	9	0	0.00	6	0	0.00	18	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	70	0	0.00	24	0	0.00	18	0	0.00	10	0	0.00	18	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	6	0	0.00	5	0	0.00							1	0	0.00
	Drinking Water	0.2	6	0	0.00	5	0	0.00							1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	72	0	0.00	24	0	0.00	18	0	0.00	10	0	0.00	20	0	0.00
	Drinking Water	250.	72	0	0.00	24	0	0.00	18	0	0.00	10	0	0.00	20	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00							1	0	0.00
00951 FLUORIDE, TOTAL AS F	Drinking Water	4.	5	0	0.00	4	0	0.00							1	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01002 ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	50.	5	0	0.00	4	0	0.00							1	0	0.00
01007 BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00							1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
	Drinking Water	5.	1	0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	5.	5	0	0.00	4	0	0.00							1	0	0.00
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034 CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	4	0	0.00							1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	1300.	5	0	0.00	4	0	0.00							1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	1	0	0.00	1	0	0.00									
01051 LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	15.	5	0	0.00	4	0	0.00							1	0	0.00
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01067 NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	100.	5	0	0.00	4	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01077 SILVER, TOTAL	Fresh Acute	4.1	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	100.	5	0	0.00	4	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	5000.	5	0	0.00	4	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	3	0	0.00							1	0	0.00
	Drinking Water	50.	4	0	0.00	3	0	0.00							1	0	0.00
31504 COLIFORM,TOT.MEMBRANE FILTR.IMMED. LES-E	Other-Hi Lim.	1000.	63	25	0.40	20	10	0.50	13	1	0.08	6	1	0.17	24	13	0.54
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	116	3	0.03	38	1	0.03	27	0	0.00	15	0	0.00	36	2	0.06
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	20	0	0.00	9	0	0.00	4	0	0.00	3	0	0.00	4	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	5	0	0.00							1	0	0.00
	Drinking Water	2.	6	0	0.00	5	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0008 Parameter Code: 00300

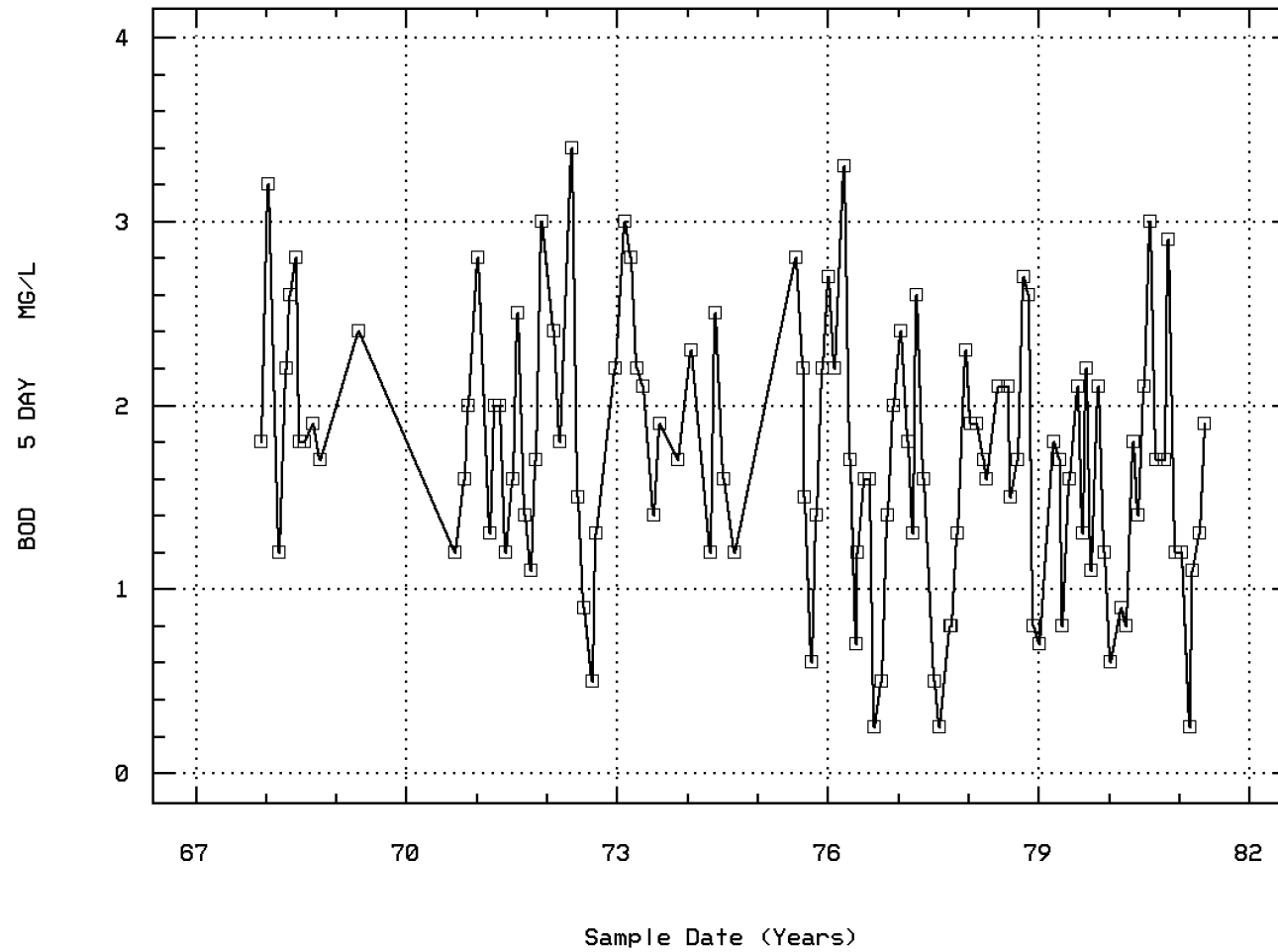
OXYGEN, DISSOLVED



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00310

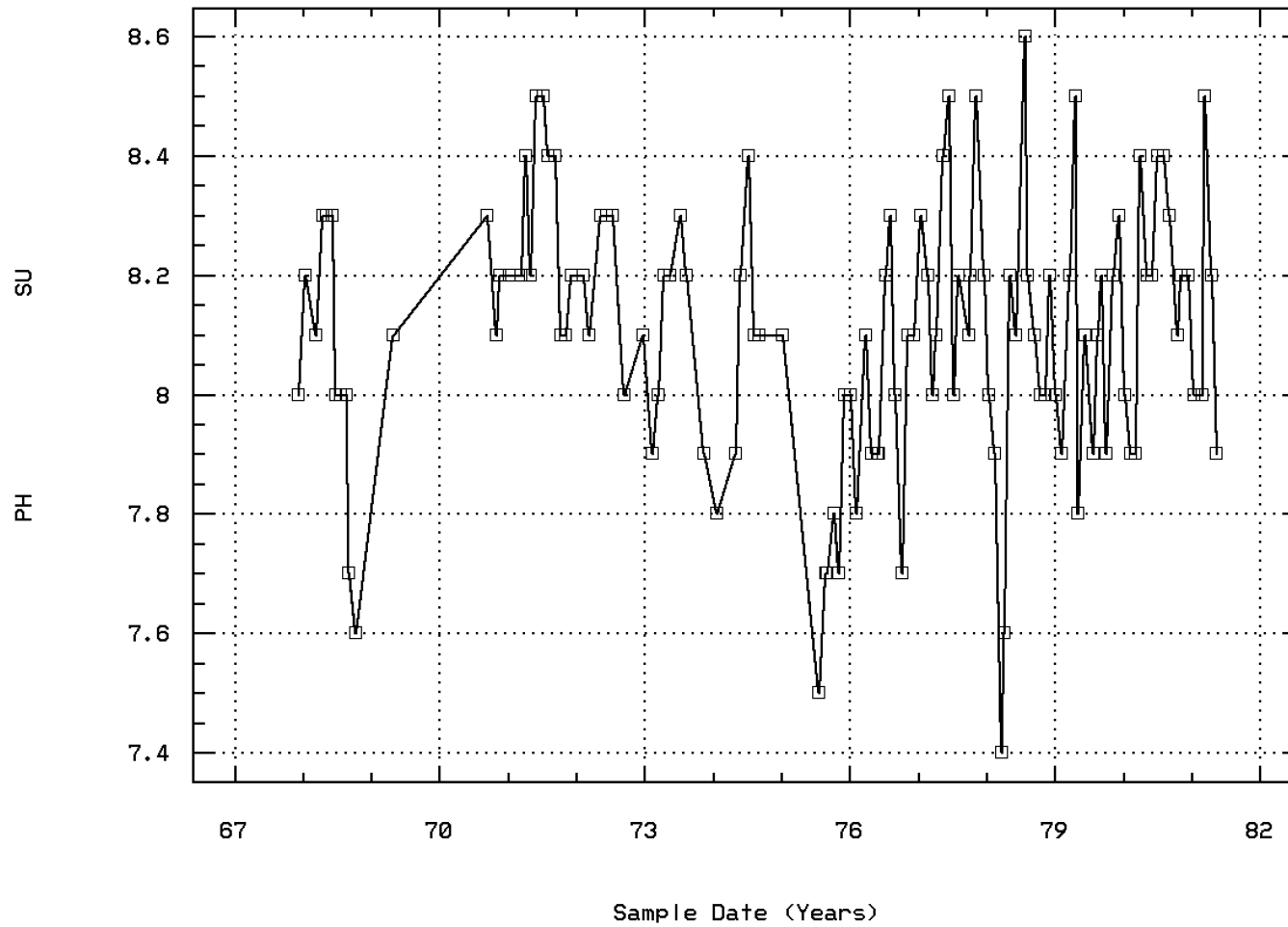
BOD, 5 DAY, 20 DEG C



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00400

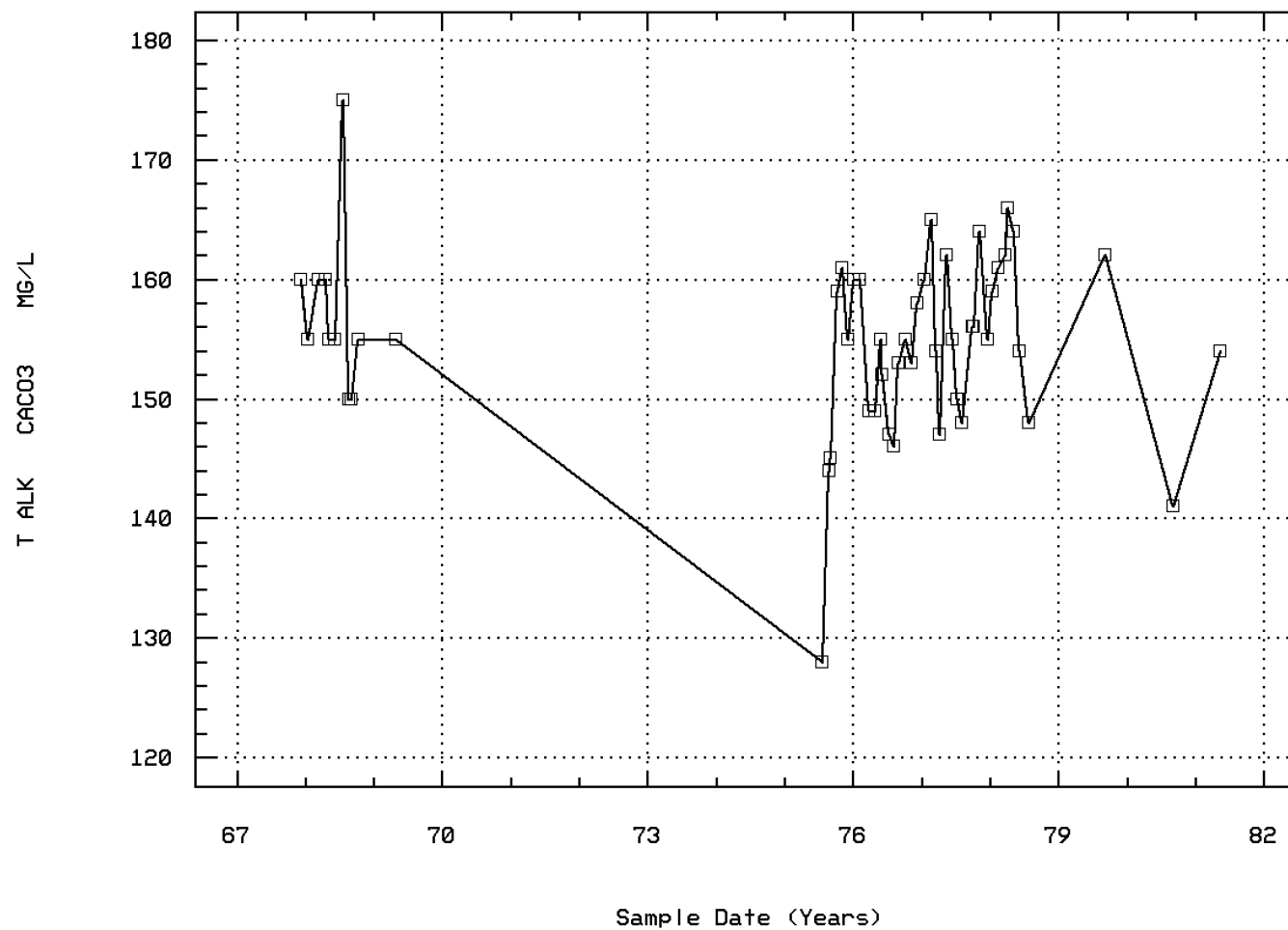
PH (STANDARD UNITS)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00410

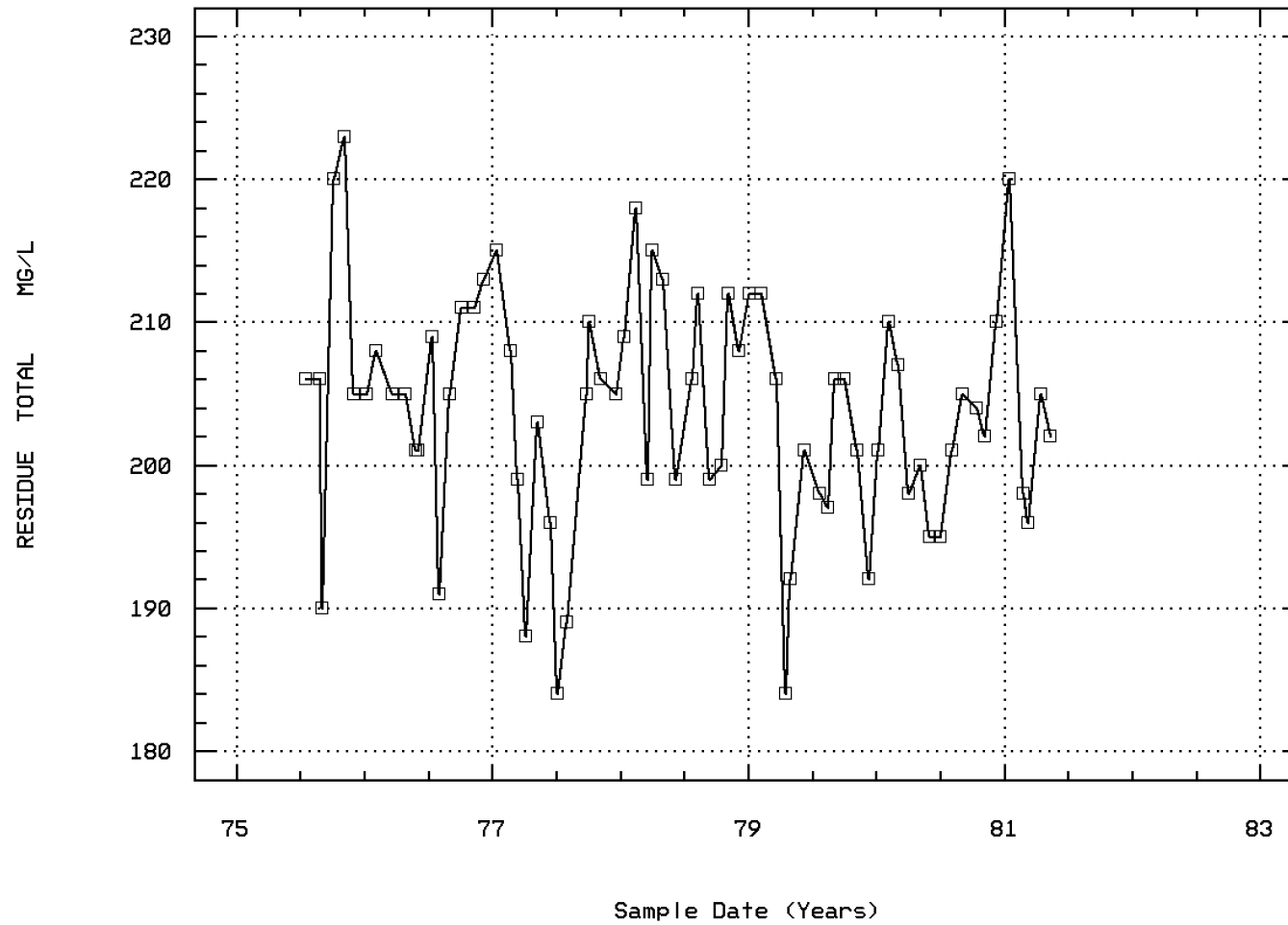
ALKALINITY, TOTAL (MG/L AS CaCO3)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00500

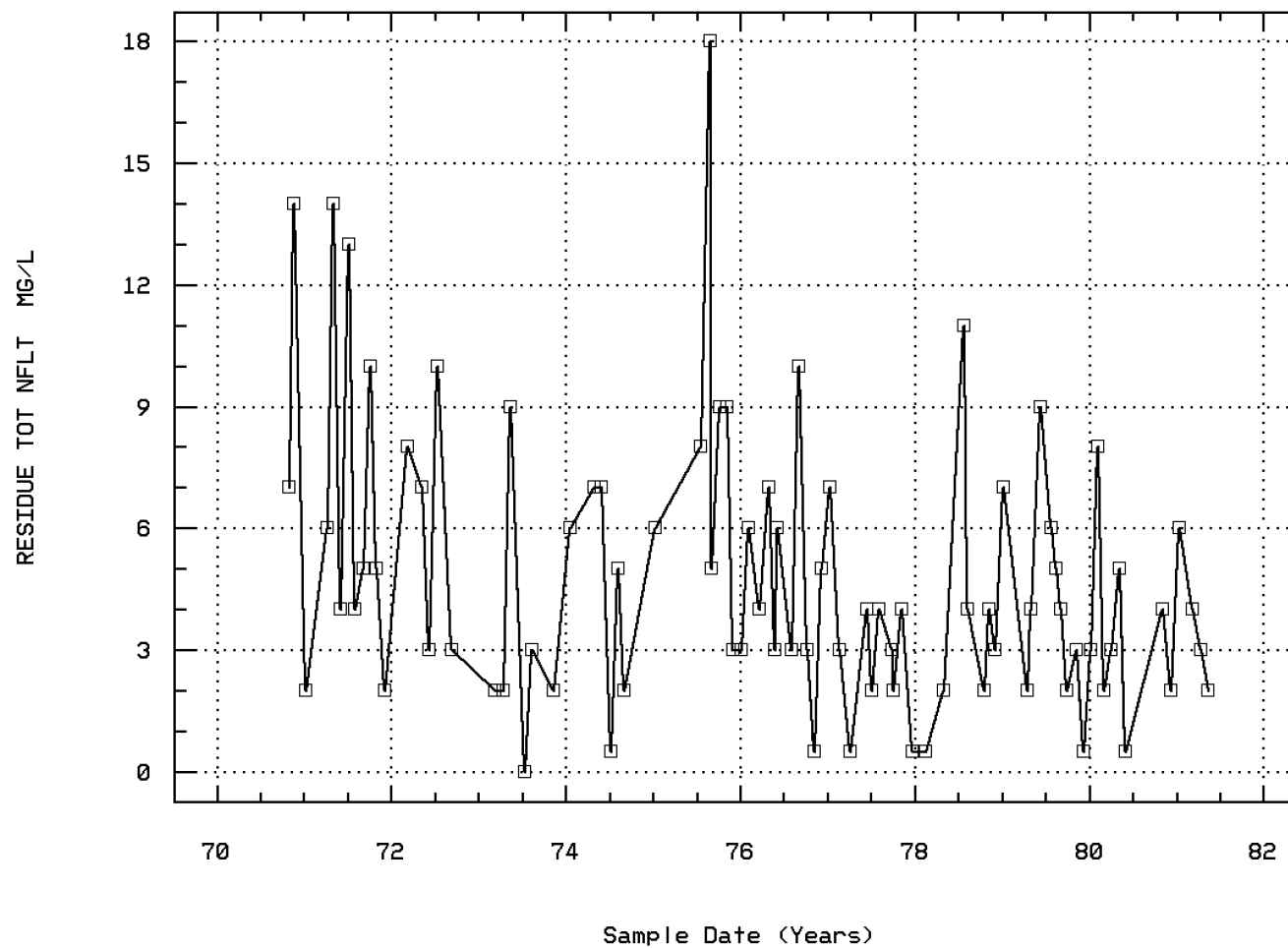
RESIDUE, TOTAL (MG/L)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00530

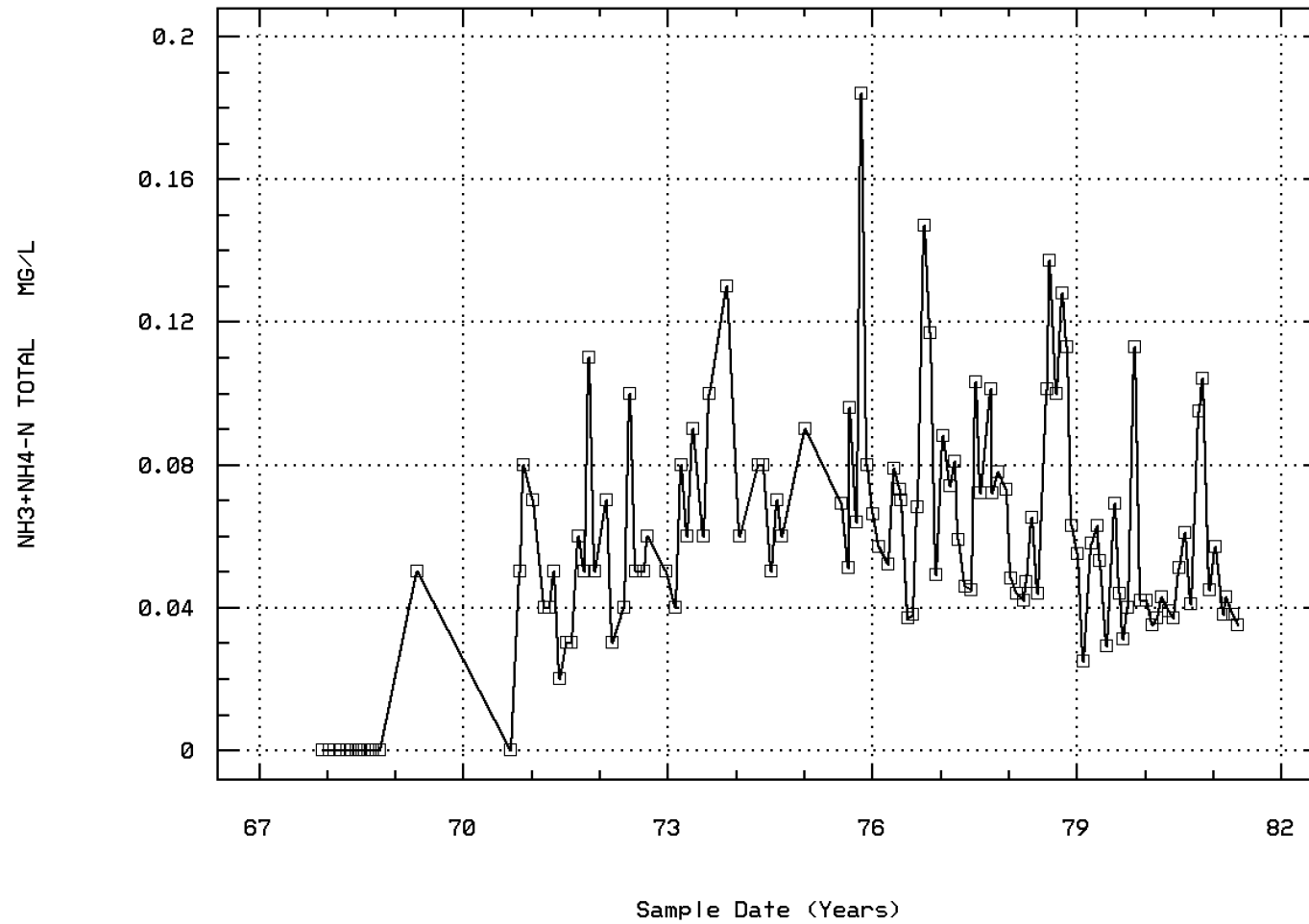
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00610

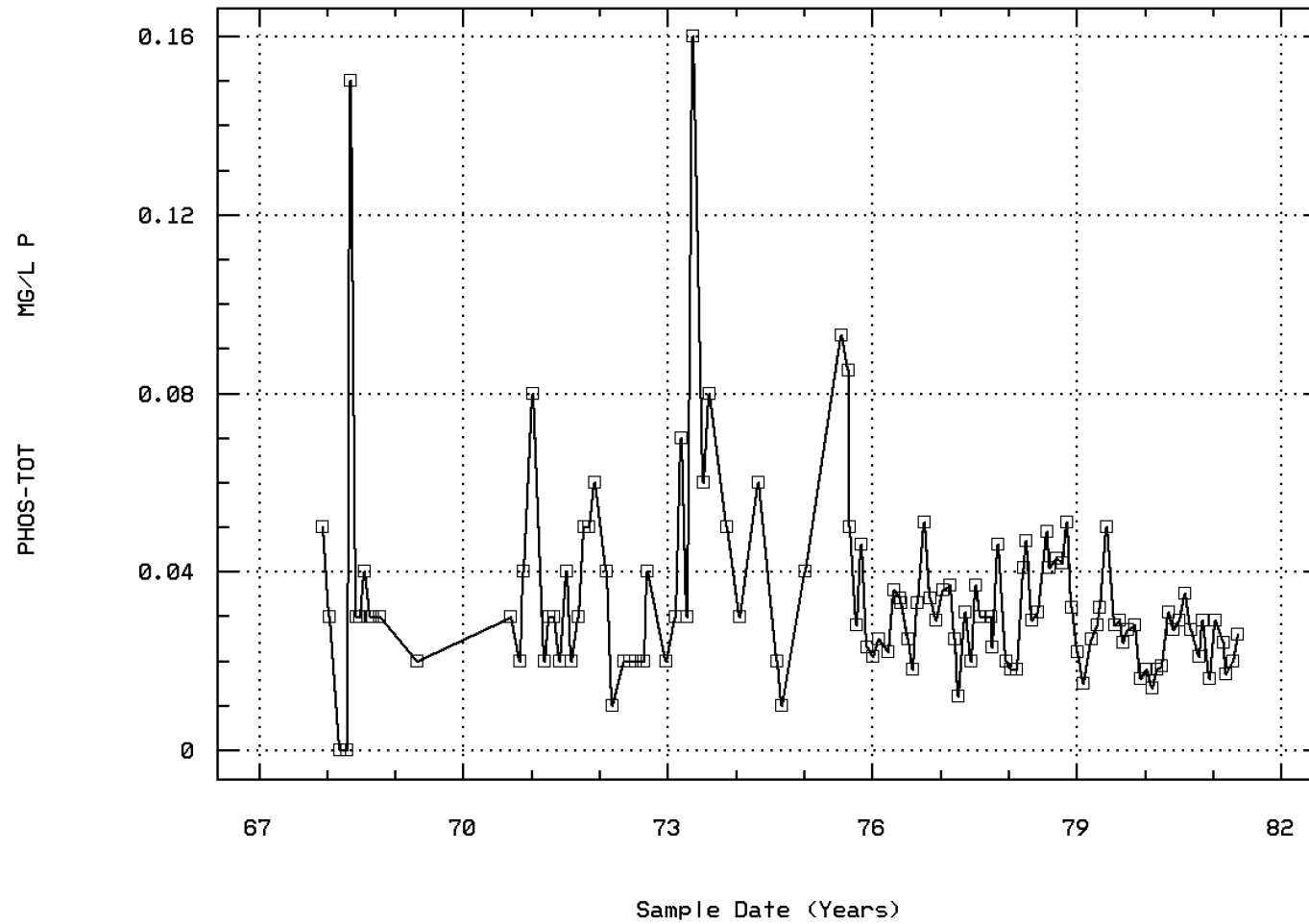
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00665

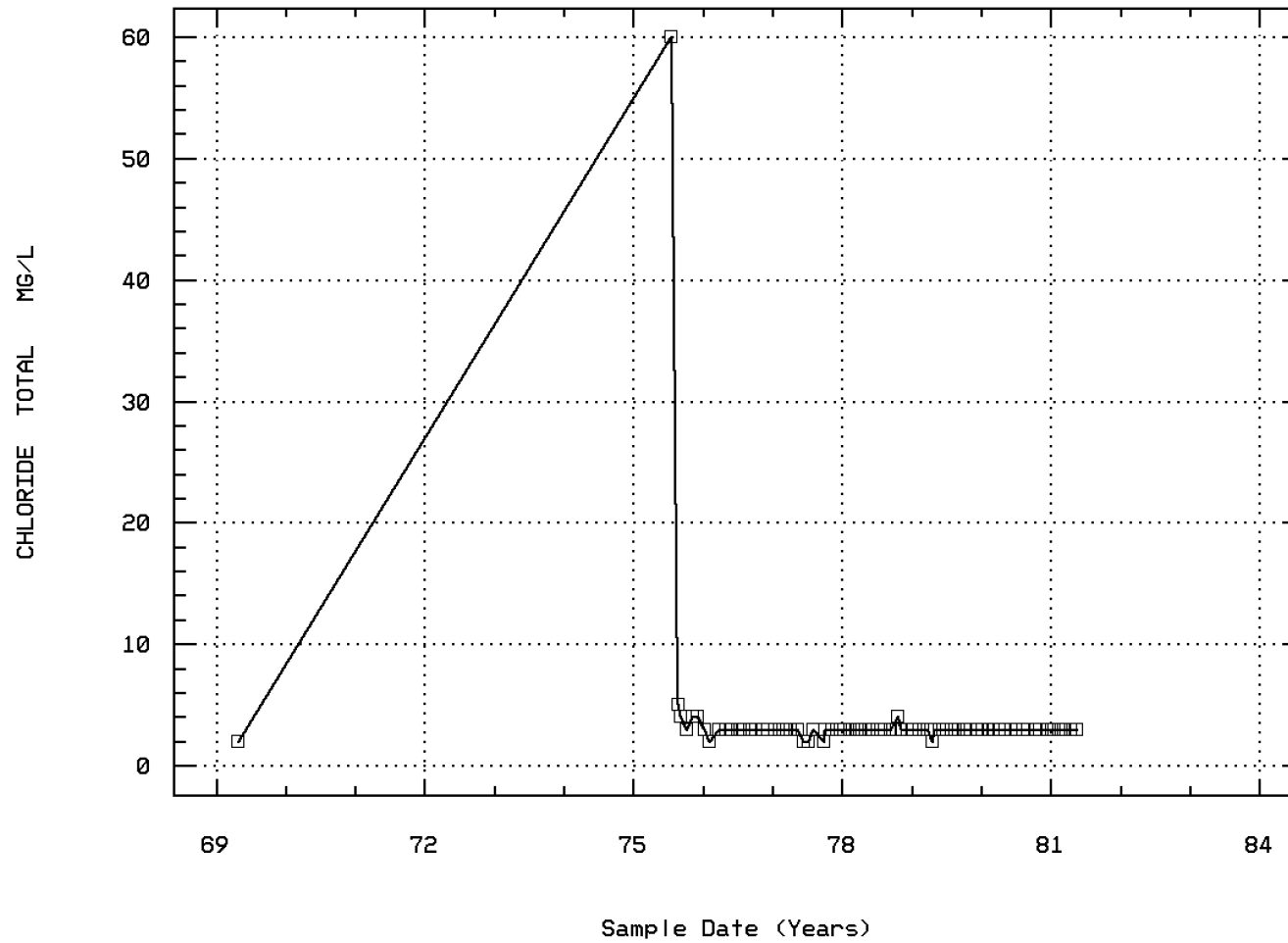
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00940

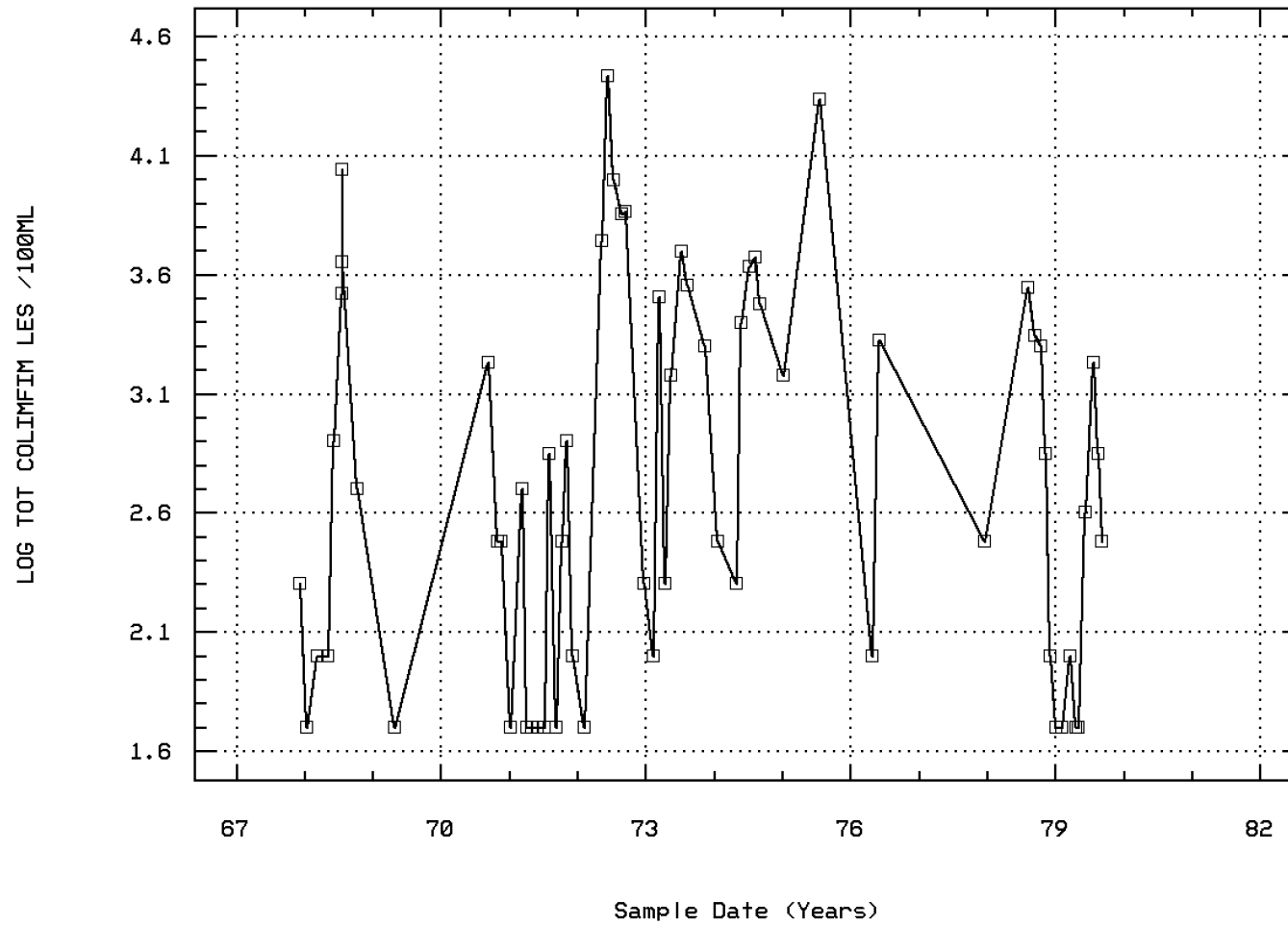
CHLORIDE, TOTAL IN WATER



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 31504

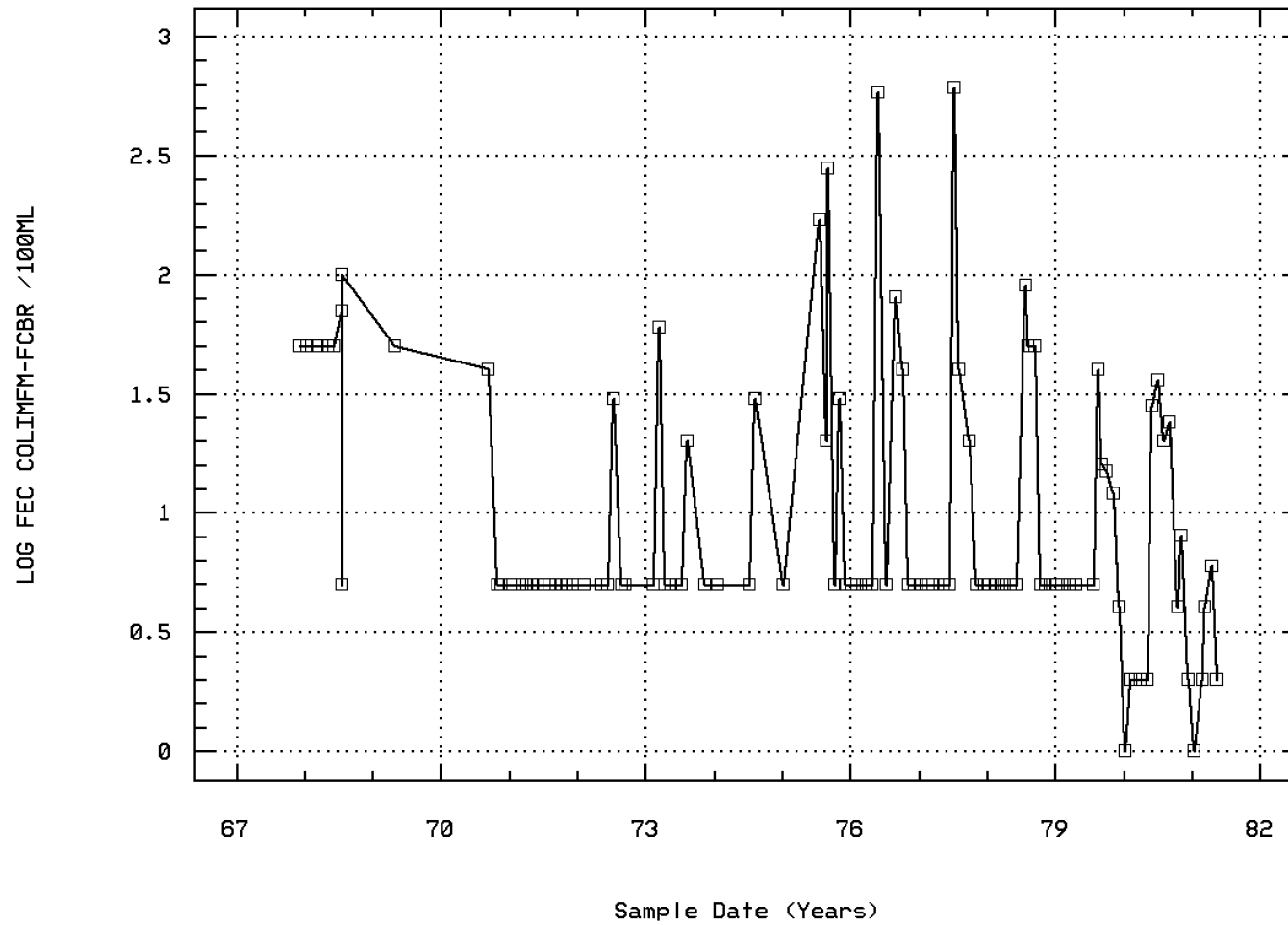
LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 31616

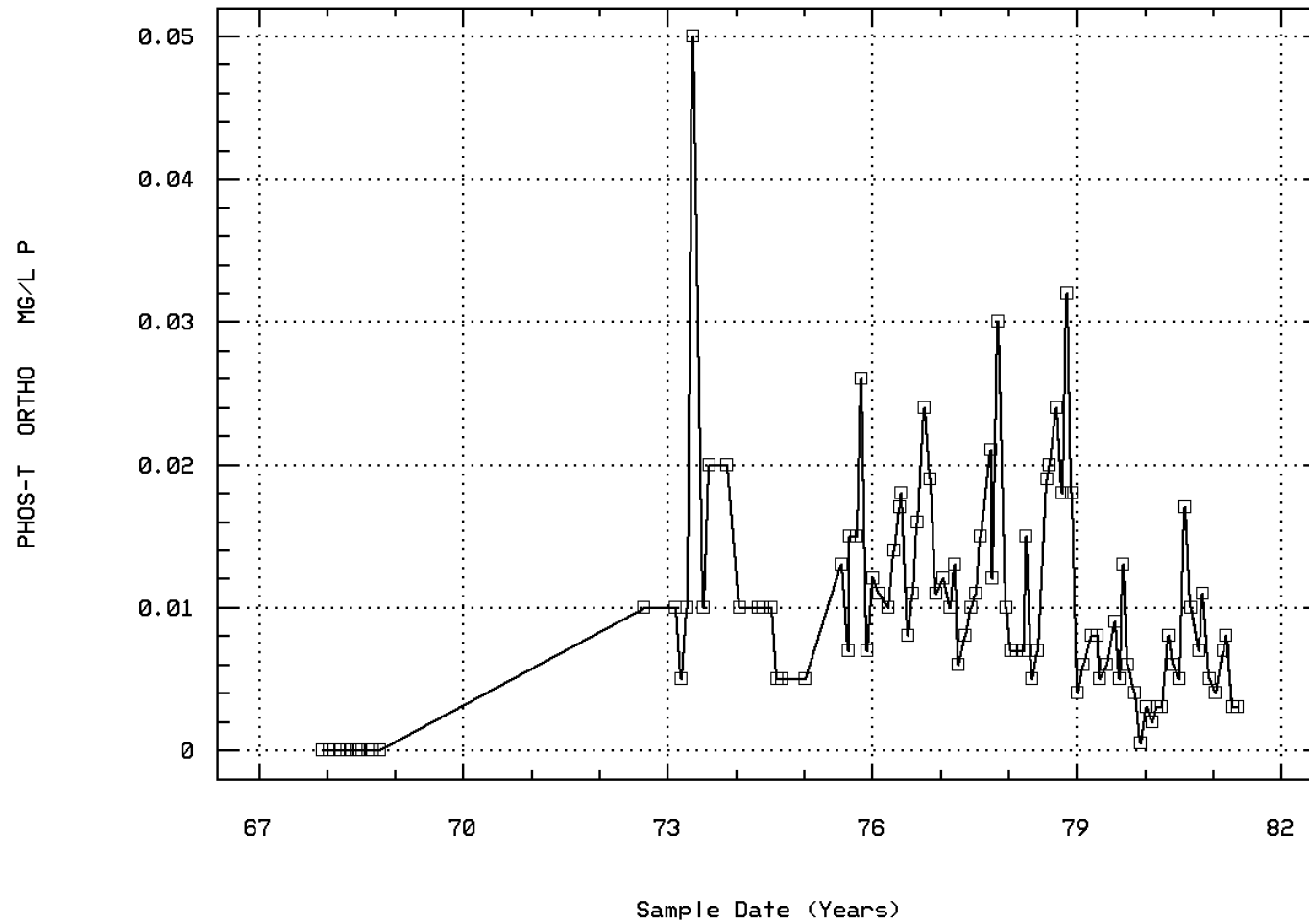
LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Annual Analysis for 1967 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	2	4.25	4.25	5.	3.5	1.125	1.061	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	2	10.3	10.3	11.2	9.4	1.62	1.273	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	1 ##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			50.								
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1968 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	17	15.	14.412	21.	2.	30.632	5.535	2.	12.	19.	20.2
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	17	9.2	9.229	10.8	8.2	0.436	0.66	8.28	8.9	9.4	10.48
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	9	1.9	2.133	3.2	1.2	0.393	0.626	1.2	1.75	2.7	3.2
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	10	8.05	8.05	8.3	7.6	0.061	0.246	7.61	7.925	8.3	8.3
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	10	8.047	7.981	8.3	7.6	0.066	0.256	7.61	7.925	8.3	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	10	0.009	0.01	0.025	0.005	0.	0.007	0.005	0.005	0.012	0.025
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	10	0.03	0.037	0.15	0.	0.002	0.042	0.	0.023	0.033	0.139
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	8 ##	50.	48.125	100.	5.	928.125	30.465	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	8 ##	1.699	1.542	2.	0.699	0.201	0.448	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			34.873								
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	1 ##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			50.								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1970 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	3	9.	11.	17.	7.	28.	5.292	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	3	9.6	9.867	10.8	9.2	0.693	0.833	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	3	1.6	1.6	2.	1.2	0.16	0.4	**	**	**	**
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	3	8.2	8.2	8.3	8.1	0.01	0.1	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	3	8.2	8.192	8.3	8.1	0.01	0.1	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	3	0.006	0.006	0.008	0.005	0.	0.001	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	3	7.	7.333	14.	1.	42.333	6.506	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	3	0.05	0.043	0.08	0.	0.002	0.04	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	3	0.03	0.03	0.04	0.02	0.	0.01	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	3 ##	5.	16.667	40.	5.	408.333	20.207	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	3 ##	0.699	1.	1.602	0.699	0.272	0.521	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			10.								

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Annual Analysis for 1971 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	11	11.	10.545	21.	2.	43.623	6.605	2.3	4.	16.	20.7
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	11	10.4	10.527	13.4	9.	2.114	1.454	9.	9.4	11.8	13.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	11	1.7	1.873	3.	1.1	0.426	0.653	1.12	1.3	2.5	2.96
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	11	8.2	8.291	8.5	8.1	0.023	0.151	8.1	8.2	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	11	8.2	8.268	8.5	8.1	0.024	0.153	8.1	8.2	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	11	0.006	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	11	5.	6.	14.	1.	19.6	4.427	1.2	2.	10.	13.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	11	0.05	0.05	0.11	0.02	0.001	0.024	0.022	0.03	0.06	0.102
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	11	0.03	0.039	0.08	0.02	0.	0.019	0.02	0.02	0.05	0.076
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	11 ##	0.699	0.699	0.699	0.699	0.	0.	0.699	0.699	0.699	0.699
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			5.								

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Annual Analysis for 1972 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	8	13.	10.9	20.	1.1	64.206	8.013	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	8	10.2	10.438	13.2	8.2	3.174	1.782	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	8	1.65	1.75	3.4	0.5	0.843	0.918	**	**	**	**
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	7	8.2	8.186	8.3	8.	0.015	0.121	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	7	8.2	8.171	8.3	8.	0.015	0.123	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	7	0.006	0.007	0.01	0.005	0.	0.002	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	7	3.	4.714	10.	1.	12.905	3.592	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	8	0.05	0.056	0.1	0.03	0.	0.021	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	8	0.02	0.024	0.04	0.01	0.	0.011	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	7##	5.	9.286	30.	5.	86.905	9.322	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	7##	0.699	0.853	1.477	0.699	0.088	0.297	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			7.131								
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	1	189.	189.	189.	189.	0.	0.	**	**	**	**
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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Annual Analysis for 1973 - Station SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	7	7.	9.357	19.5	0.5	45.56	6.75	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	7	11.2	11.2	14.	9.2	2.333	1.528	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	7	2.1	2.157	3.	1.4	0.33	0.574	**	**	**	**
00400p	PH (STANDARD UNITS)	7	8.2	8.1	8.3	7.9	0.027	0.163	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	7	8.2	8.073	8.3	7.9	0.027	0.166	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	7	0.006	0.008	0.013	0.005	0.	0.003	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	7	2.	2.714	9.	0.	8.571	2.928	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	7	0.08	0.08	0.13	0.04	0.001	0.03	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	7	0.06	0.069	0.16	0.03	0.002	0.045	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	7 ##	5.	15.	60.	5.	425.	20.616	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	7 ##	0.699	0.939	1.778	0.699	0.187	0.433	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		8.693								
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7	0.01	0.018	0.05	0.005	0.	0.015	**	**	**	**

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Annual Analysis for 1974 - Station SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	6	14.25	13.75	21.5	3.	37.075	6.089	**	**	**	**
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	3	1.8	1.533	2.	0.8	0.413	0.643	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	6	290.	290.	300.	280.	40.	6.325	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	6	9.7	10.233	11.8	9.6	0.887	0.942	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	5	1.6	1.76	2.5	1.2	0.373	0.611	**	**	**	**
00400p	PH (STANDARD UNITS)	6	8.1	8.083	8.4	7.8	0.046	0.214	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	6	8.1	8.041	8.4	7.8	0.048	0.219	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	6	0.008	0.009	0.016	0.004	0.	0.004	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	6	5.5	4.583	7.	0.5	7.442	2.728	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	6	0.065	0.067	0.08	0.05	0.	0.012	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	4	0.025	0.03	0.06	0.01	0.	0.022	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	6	10.	11.667	30.	5.	86.667	9.309	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	6	1.	0.979	1.477	0.699	0.081	0.285	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		9.532								
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	6	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**

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Annual Analysis for 1975 - Station SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	7	9.	10.929	19.	3.5	37.869	6.154	**	**	**	**
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	7	1.	1.029	1.6	0.5	0.176	0.419	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	7	310.	307.857	330.	285.	273.81	16.547	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	6	8.9	9.233	12.	8.	2.023	1.422	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	6	1.85	1.783	2.8	0.6	0.602	0.776	**	**	**	**
00400p	PH (STANDARD UNITS)	7	7.7	7.786	8.1	7.5	0.041	0.204	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	7	7.7	7.747	8.1	7.5	0.043	0.208	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	7	0.02	0.018	0.032	0.008	0.	0.008	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	6	206.	208.333	223.	190.	141.867	11.911	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	7	8.	8.286	18.	3.	23.238	4.821	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	6	0.275	0.295	0.44	0.21	0.008	0.087	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	7	0.08	0.091	0.184	0.051	0.002	0.044	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	5	0.21	0.23	0.3	0.17	0.003	0.057	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	7	0.046	0.052	0.093	0.023	0.001	0.027	**	**	**	**

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Annual Analysis for 1975 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	6	4.	13.333	60.	3.	523.067	22.871	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	6	3.45	3.35	3.5	3.	0.043	0.207	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	7	20.	73.571	280.	5.	11797.619	108.617	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	7	1.301	1.365	2.447	0.699	0.545	0.738	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			23.156								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	2	1.95	1.95	2.2	1.7	0.125	0.354	**	**	**	**
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	6	200.	199.667	214.	185.	138.667	11.776	**	**	**	**
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	7	0.013	0.013	0.026	0.005	0.	0.007	**	**	**	**

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Annual Analysis for 1976 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	12	9.	9.583	20.	1.	43.765	6.616	1.3	3.5	14.375	20.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	1.25	1.517	4.4	0.7	0.998	0.999	0.7	1.	1.675	3.71
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	310.	309.583	325.	290.	106.629	10.326	293.	301.25	320.	323.5
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	12	10.5	10.608	13.4	7.7	3.328	1.824	8.	9.	12.4	13.16
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	12	1.6	1.596	3.3	0.25	0.788	0.888	0.325	0.825	2.15	3.12
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.	8.	8.3	7.7	0.029	0.171	7.73	7.9	8.1	8.27
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.	7.97	8.3	7.7	0.03	0.174	7.73	7.9	8.1	8.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	12	0.01	0.011	0.02	0.005	0.	0.004	0.005	0.008	0.013	0.019
00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	205.	205.417	213.	191.	35.174	5.931	194.	202.	210.5	212.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	3.5	4.292	10.	0.5	7.112	2.667	0.65	3.	6.	9.1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.245	0.248	0.45	0.13	0.007	0.081	0.139	0.195	0.27	0.408
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	12	0.067	0.071	0.147	0.037	0.001	0.032	0.037	0.05	0.078	0.138
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.245	0.232	0.33	0.16	0.003	0.059	0.16	0.17	0.275	0.321
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	12	0.031	0.03	0.051	0.018	0.	0.009	0.019	0.023	0.034	0.047
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	12	3.	2.917	3.	2.	0.083	0.289	2.3	3.	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	12	3.05	2.95	3.5	2.3	0.155	0.394	2.36	2.6	3.275	3.47
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	12 ##	5.	62.917	580.	5.	27024.811	164.392	5.	5.	32.5	430.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	12 ##	0.699	1.097	2.763	0.699	0.437	0.661	0.699	0.699	1.452	2.505
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			12.496								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	6	3.8	3.533	4.7	2.	1.339	1.157	**	**	**	**
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	201.5	201.167	211.	188.	46.152	6.793	190.1	195.75	208.	210.1
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	12	0.013	0.014	0.024	0.008	0.	0.005	0.009	0.011	0.018	0.023

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Annual Analysis for 1977 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	12	9.	9.208	19.	0.5	41.703	6.458	1.25	3.25	16.	18.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	1.25	1.333	2.7	0.7	0.306	0.553	0.7	0.925	1.65	2.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	310.	304.583	320.	280.	188.447	13.728	281.5	291.25	315.	320.
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	12	10.65	10.6	13.1	6.9	3.791	1.947	7.29	9.325	12.375	13.01
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	12	1.3	1.388	2.6	0.25	0.589	0.768	0.325	0.8	2.175	2.54
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.2	8.225	8.5	8.	0.029	0.171	8.	8.1	8.375	8.5
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.2	8.196	8.5	8.	0.03	0.174	8.	8.1	8.375	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	12	0.006	0.006	0.01	0.003	0.	0.002	0.003	0.004	0.008	0.01
00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	204.	200.667	215.	184.	92.424	9.614	185.2	190.75	207.5	213.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	2.5	2.667	7.	0.5	3.652	1.911	0.5	1.	4.	6.1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.235	0.252	0.42	0.17	0.005	0.072	0.176	0.2	0.29	0.393
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	12	0.074	0.074	0.103	0.045	0.	0.018	0.045	0.062	0.086	0.102
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.2	0.237	0.36	0.15	0.005	0.072	0.159	0.18	0.313	0.348

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	12	0.03	0.029	0.046	0.012	0.	0.009	0.014	0.021	0.037	0.043
00940	CHLORIDE, TOTAL IN WATER MG/L	07/22/68-05/12/81	12	3.	2.75	3.	2.	0.205	0.452	2.	2.25	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	12	3.45	3.358	3.8	2.9	0.072	0.268	2.9	3.15	3.5	3.71
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	12 ##	5.	60.417	610.	5.	30061.174	173.382	5.	5.	17.5	439.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	12 ##	0.699	1.048	2.785	0.699	0.386	0.621	0.699	0.699	1.226	2.43
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			11.18								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	11	2.5	2.636	4.	1.4	0.585	0.765	1.54	2.2	3.1	3.98
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	202.	198.083	208.	182.	82.447	9.08	182.9	189.	205.	208.
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	12	0.012	0.013	0.03	0.006	0.	0.006	0.007	0.01	0.015	0.027

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Annual Analysis for 1978 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	12	7.5	9.125	20.	1.	48.369	6.955	1.45	3.	17.25	19.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	1.05	1.05	1.4	0.7	0.065	0.254	0.7	0.825	1.275	1.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	317.5	315.417	335.	300.	129.356	11.373	301.5	305.	323.75	333.5
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	12	10.9	11.242	13.7	8.	2.784	1.669	8.51	9.925	12.775	13.52
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	12	1.8	1.8	2.7	0.8	0.313	0.559	0.86	1.525	2.1	2.67
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.05	8.025	8.6	7.4	0.093	0.305	7.46	7.925	8.2	8.48
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.047	7.918	8.6	7.4	0.105	0.325	7.46	7.925	8.2	8.48
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	12	0.009	0.012	0.04	0.003	0.	0.01	0.004	0.006	0.012	0.035
00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	208.5	207.5	218.	199.	46.818	6.842	199.	199.25	212.75	217.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	1.5	2.625	11.	0.5	8.415	2.901	0.65	1.	3.75	8.9
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.31	0.364	1.2	0.17	0.074	0.272	0.182	0.22	0.358	0.957
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	12	0.064	0.078	0.137	0.042	0.001	0.036	0.043	0.045	0.11	0.134
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.245	0.234	0.32	0.14	0.004	0.063	0.143	0.183	0.288	0.32
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	12	0.041	0.037	0.051	0.018	0.	0.011	0.018	0.03	0.046	0.05
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	12	3.	3.083	4.	3.	0.083	0.289	3.	3.	3.	3.7
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	12	3.35	3.183	3.5	2.7	0.103	0.321	2.73	2.8	3.475	3.5
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	12 ##	5.	19.583	90.	5.	792.992	28.16	5.	5.	38.75	78.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	12 ##	0.699	0.97	1.954	0.699	0.245	0.495	0.699	0.699	1.449	1.878
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.338								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	11	1.7	1.927	3.3	0.2	0.782	0.884	0.38	1.5	2.4	3.26
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	206.5	204.917	218.	195.	55.356	7.44	195.9	198.	210.25	216.8
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	12	0.017	0.015	0.032	0.005	0.	0.008	0.006	0.007	0.02	0.03

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Annual Analysis for 1979 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	12	7.75	9.042	18.	0.	43.612	6.604	0.	4.	15.875	17.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	0.9	0.992	1.8	0.4	0.243	0.493	0.43	0.525	1.475	1.74
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	300.	302.917	325.	280.	174.811	13.222	283.	295.	315.	322.
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	12	10.55	10.842	13.3	8.1	2.288	1.513	8.37	9.85	12.	13.
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	12	1.45	1.467	2.2	0.7	0.273	0.523	0.73	1.025	2.025	2.17
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.1	8.092	8.5	7.8	0.041	0.202	7.83	7.9	8.2	8.44
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.1	8.051	8.5	7.8	0.043	0.206	7.83	7.9	8.2	8.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	12	0.008	0.009	0.016	0.003	0.	0.004	0.004	0.006	0.013	0.015
00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	201.	200.583	212.	184.	71.902	8.479	186.4	193.25	206.	212.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	3.5	3.708	9.	0.5	7.021	2.65	0.65	1.25	5.75	8.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.31	0.323	0.47	0.22	0.007	0.082	0.223	0.248	0.378	0.461
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	12	0.049	0.052	0.113	0.025	0.001	0.024	0.026	0.033	0.062	0.1

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Annual Analysis for 1979 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.235	0.218	0.32	0.14	0.004	0.064	0.143	0.15	0.275	0.308
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	12	0.028	0.027	0.05	0.015	0.	0.009	0.015	0.023	0.029	0.045
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	12	3.	2.917	3.	2.	0.083	0.289	2.3	3.	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	07/18/75-05/12/81	12	3.15	3.167	3.7	2.8	0.108	0.328	2.8	2.8	3.475	3.64
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	12	7.5	11.	40.	4.	101.273	10.063	4.3	5.	14.25	32.8
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	12/06/67-05/12/81	12	0.849	0.93	1.602	0.602	0.09	0.301	0.631	0.699	1.152	1.483
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			8.509								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	12	1.7	1.9	3.4	0.5	0.991	0.995	0.65	1.025	2.925	3.37
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	195.	196.917	211.	182.	73.174	8.554	183.8	192.	204.75	209.2
70507p	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	12	0.006	0.006	0.013	0.001	0.	0.003	0.002	0.004	0.008	0.012

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Annual Analysis for 1980 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	12	8.5	9.333	19.5	1.	43.47	6.593	1.	2.5	15.5	19.05
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	0.7	0.683	1.	0.4	0.031	0.175	0.43	0.5	0.8	0.94
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	307.5	307.917	320.	300.	52.083	7.217	300.	300.	315.	318.5
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	12	10.5	11.342	13.6	9.3	2.424	1.557	9.45	10.2	13.075	13.48
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	12	1.55	1.592	3.	0.6	0.604	0.777	0.66	0.925	2.025	2.97
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.2	8.183	8.4	7.9	0.032	0.18	7.9	8.025	8.375	8.4
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	12	8.2	8.148	8.4	7.9	0.034	0.184	7.9	8.025	8.375	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	12	0.006	0.007	0.013	0.004	0.	0.003	0.004	0.004	0.009	0.013
00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	12	201.5	202.333	210.	195.	25.879	5.087	195.	198.5	206.5	210.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	12	2.	2.625	8.	0.5	4.778	2.186	0.65	1.	3.75	7.1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.26	0.269	0.38	0.18	0.003	0.058	0.186	0.228	0.31	0.371
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	12	0.043	0.053	0.104	0.035	0.001	0.023	0.036	0.038	0.059	0.101
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.22	0.225	0.3	0.15	0.003	0.057	0.153	0.165	0.288	0.297
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	12	0.024	0.024	0.035	0.014	0.	0.007	0.015	0.018	0.029	0.034
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	12	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	07/18/75-05/12/81	12	3.3	3.117	3.6	2.2	0.172	0.415	2.35	2.775	3.375	3.6
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	12	3.	10.917	36.	1.	156.992	12.53	1.3	2.	23.	33.6
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	12	0.452	0.725	1.556	0.	0.313	0.56	0.09	0.301	1.36	1.524
31616p	GEOMETRIC MEAN =				5.304								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	12	1.	1.342	5.1	0.3	1.528	1.236	0.45	0.8	1.275	4.11
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	199.5	195.917	208.	145.	276.629	16.632	160.	195.	204.75	207.1
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	12	0.006	0.007	0.017	0.002	0.	0.004	0.002	0.003	0.01	0.015

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Annual Analysis for 1981 - Station SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	5	6.	6.3	11.	2.	12.7	3.564	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	5	0.8	0.86	1.6	0.4	0.208	0.456	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	5	310.	310.	330.	295.	162.5	12.748	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	5	12.2	12.22	13.	11.5	0.327	0.572	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	5	1.2	1.15	1.9	0.25	0.35	0.592	**	**	**	**
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	5	8.	8.12	8.5	7.9	0.057	0.239	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	5	8.	8.075	8.5	7.9	0.06	0.244	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	5	0.01	0.008	0.013	0.003	0.	0.004	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	5	202.	204.2	220.	196.	90.2	9.497	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	5	3.	3.2	6.	1.	3.7	1.924	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	5	0.23	0.222	0.26	0.15	0.002	0.043	**	**	**	**

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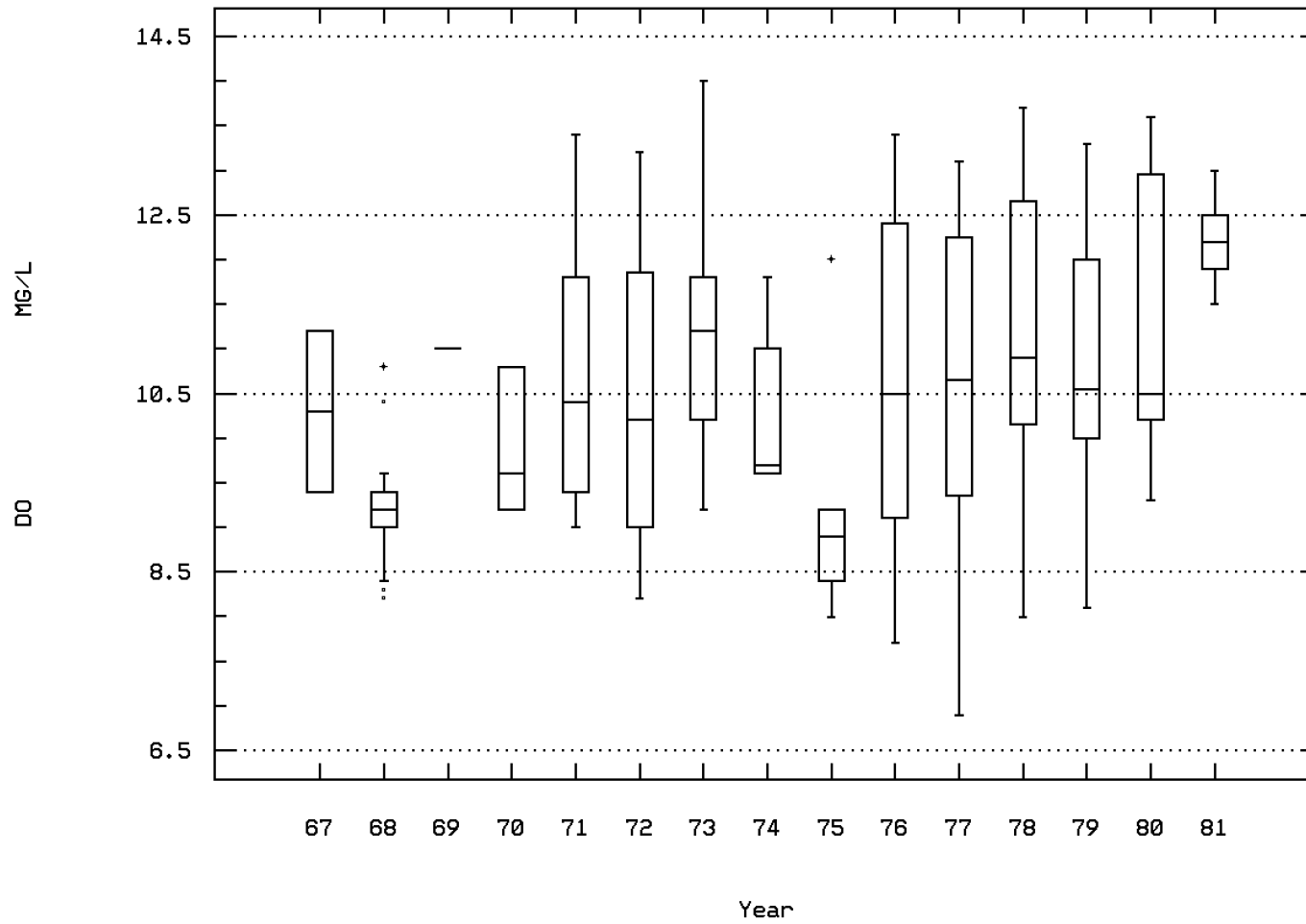
Annual Analysis for 1981 - Station SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	5	0.038	0.042	0.057	0.035	0.	0.009	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	08/26/75-05/12/81	5	0.29	0.264	0.31	0.17	0.003	0.055	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	5	0.024	0.023	0.029	0.017	0.	0.005	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	5	3.	3.	3.	3.	0.	0.	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	07/18/75-05/12/81	5	3.2	3.16	3.3	2.8	0.043	0.207	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	5	2.	3.	6.	1.	4.	2.	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	5	0.301	0.396	0.778	0.	0.091	0.301	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.491								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/03/75-05/12/81	4	0.75	1.	2.	0.5	0.46	0.678	**	**	**	**
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	5	202.	201.6	214.	192.	64.8	8.05	**	**	**	**
70507p PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	5	0.004	0.005	0.008	0.003	0.	0.002	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0008 Parameter Code: 00300

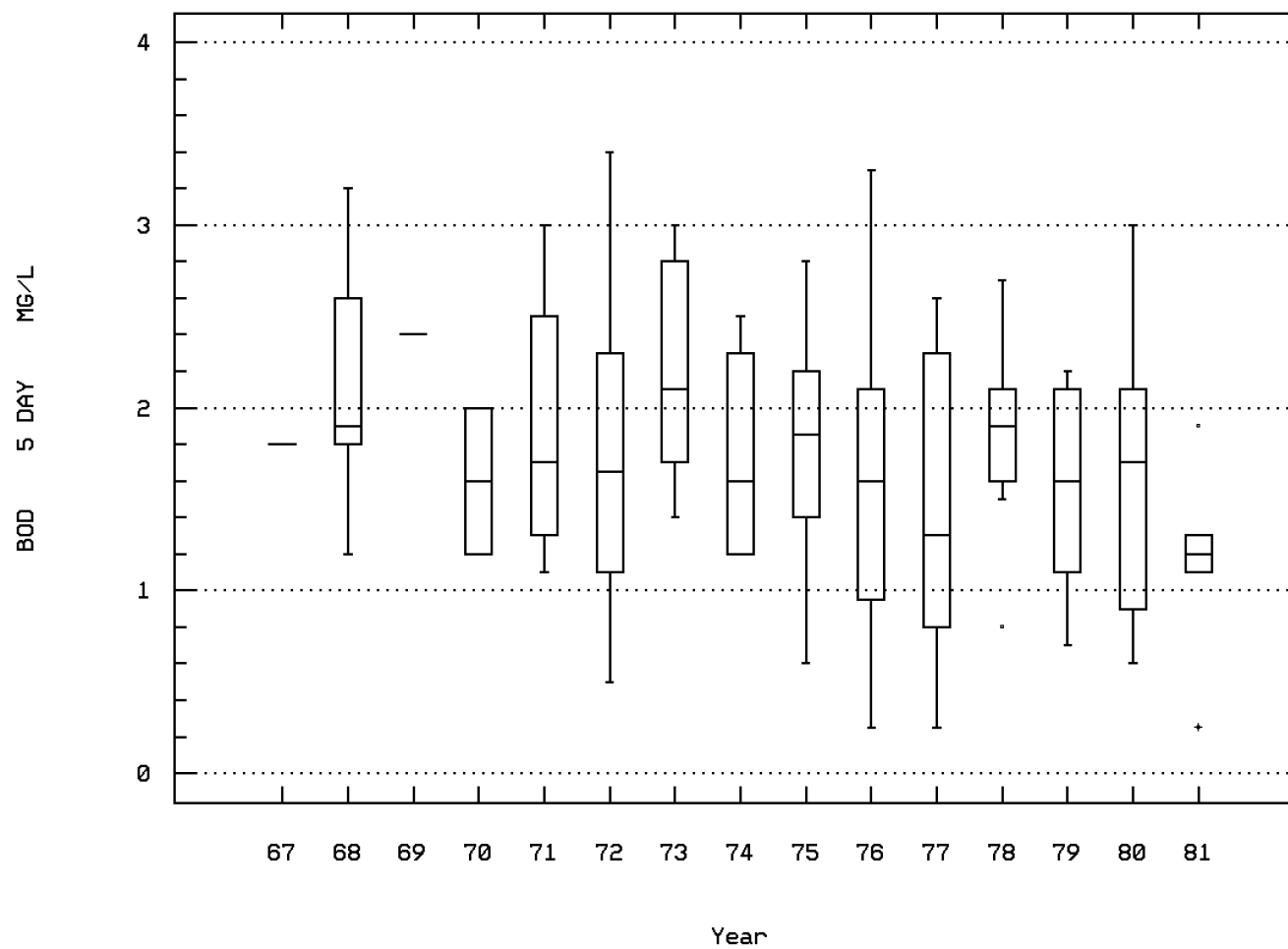
OXYGEN, DISSOLVED



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00310

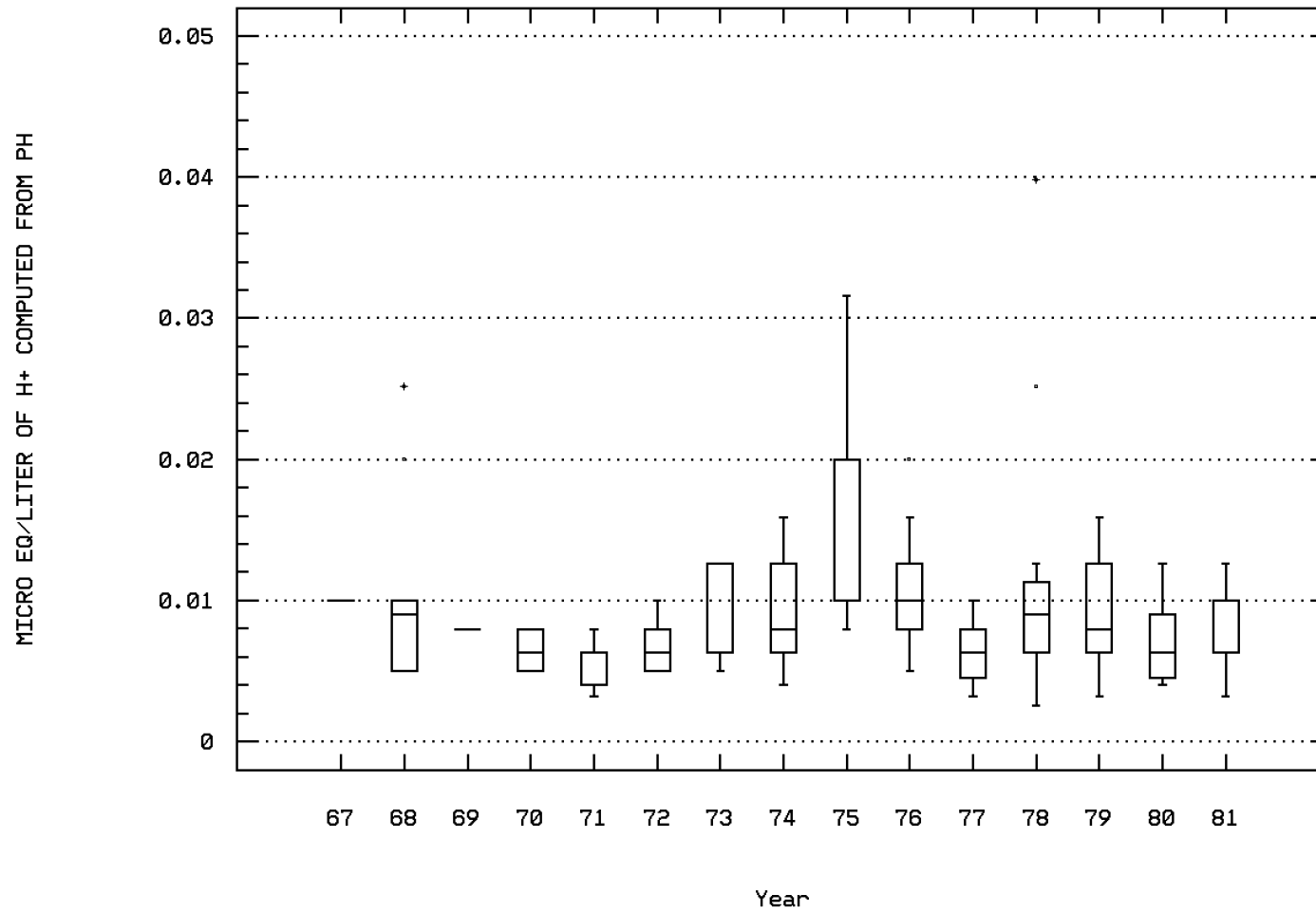
BOD, 5 DAY, 20 DEG C



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00400

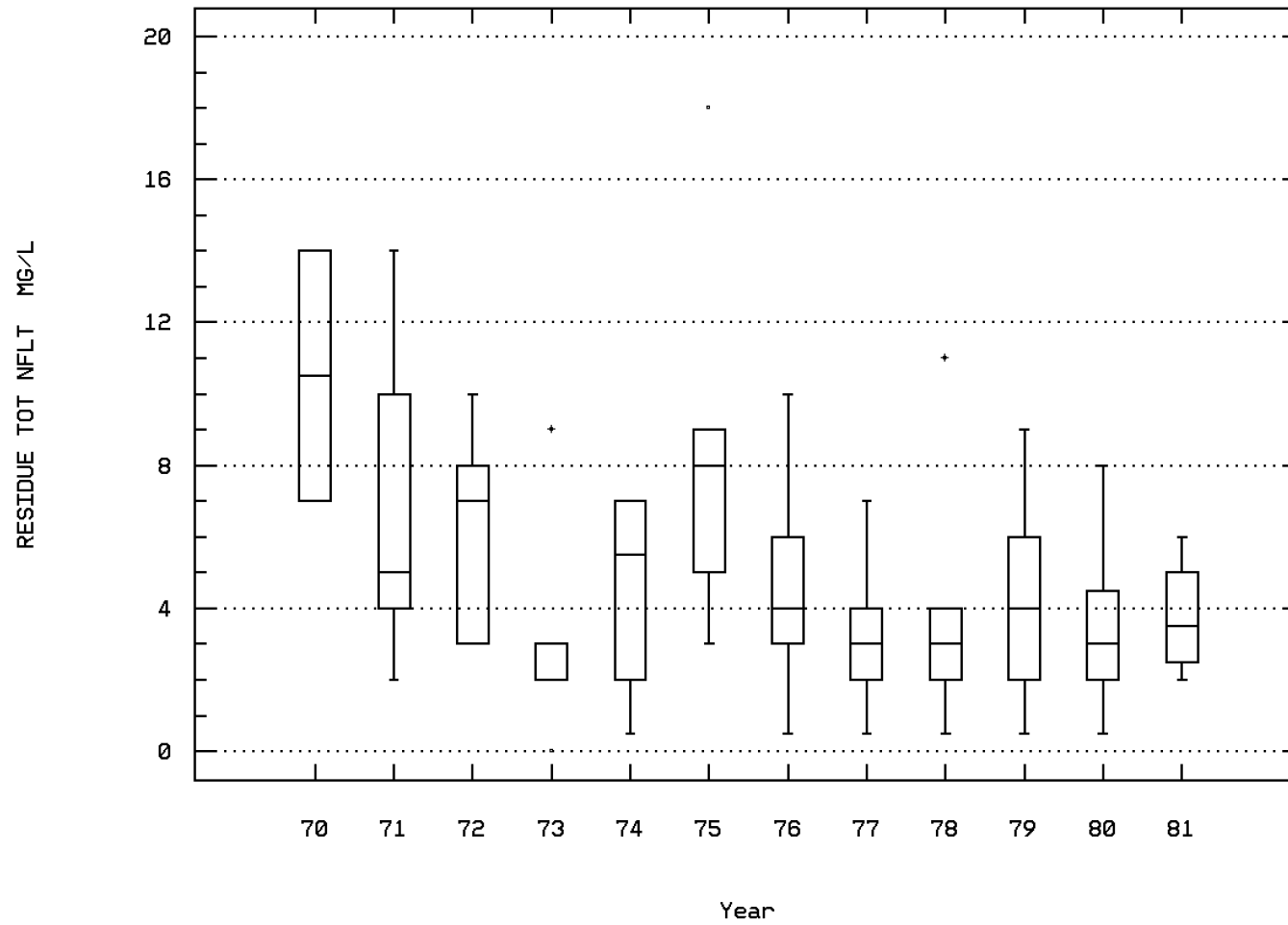
MICRO EQ/LITER OF H+ COMPUTED FROM PH



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00530

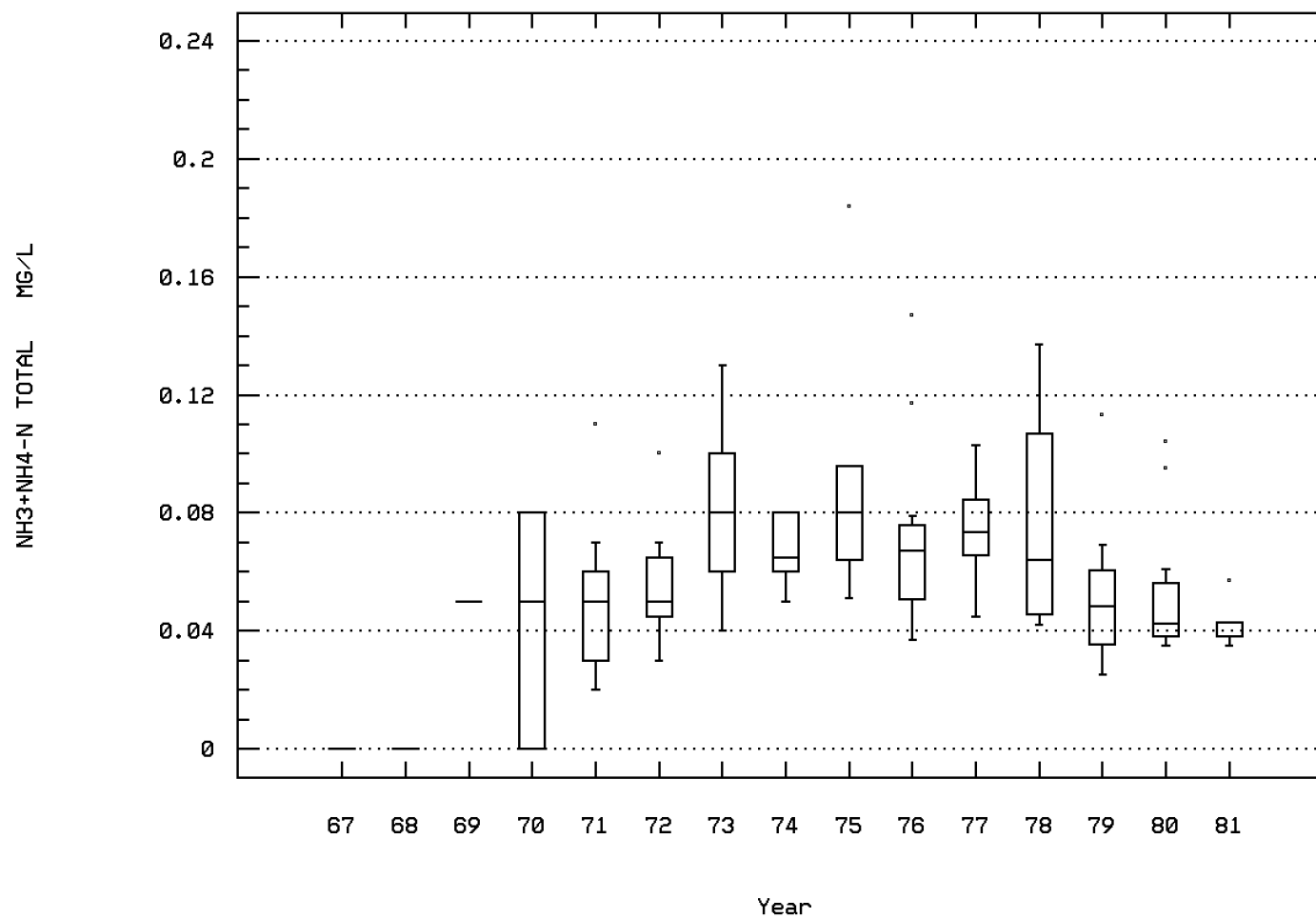
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00610

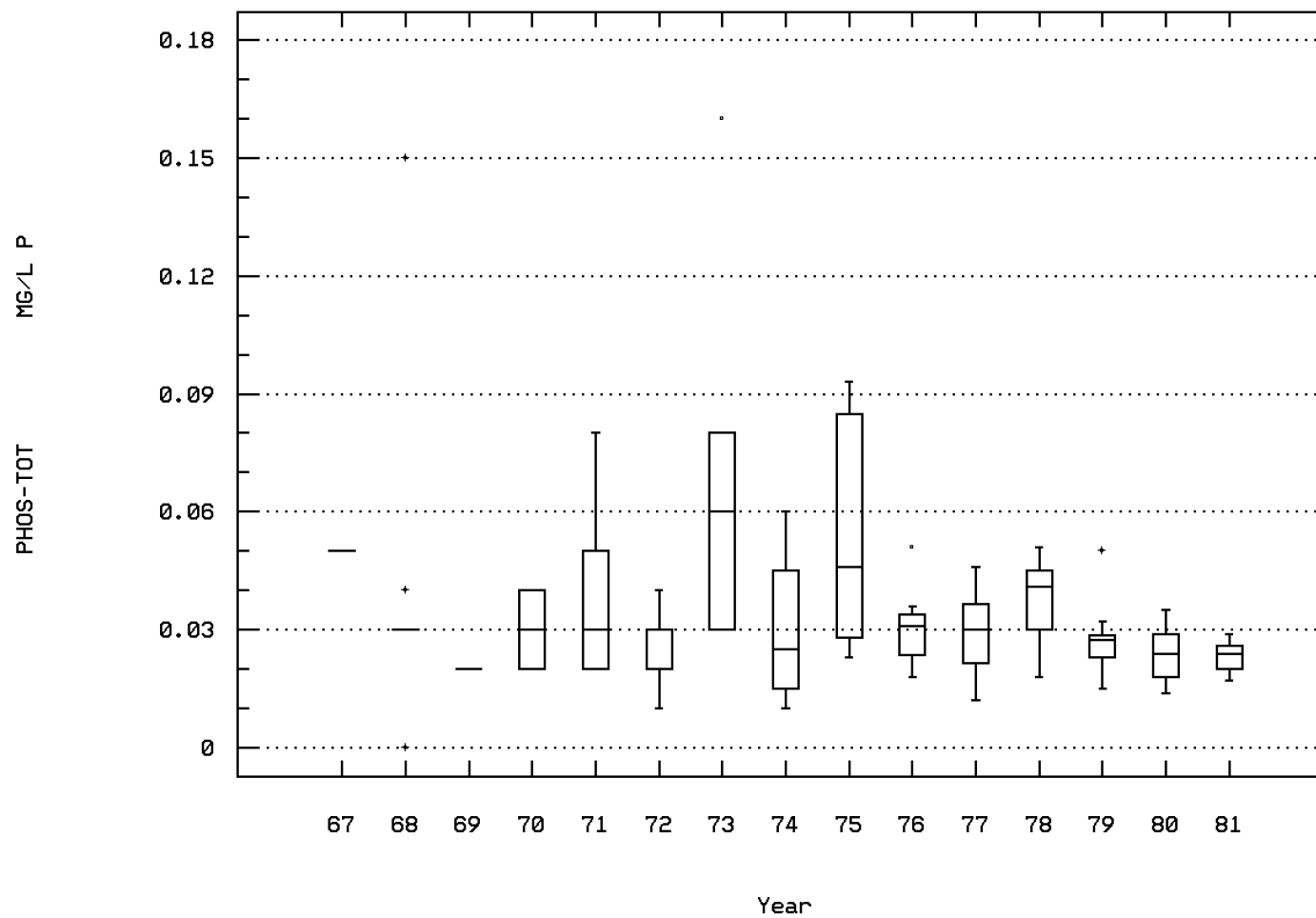
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00665

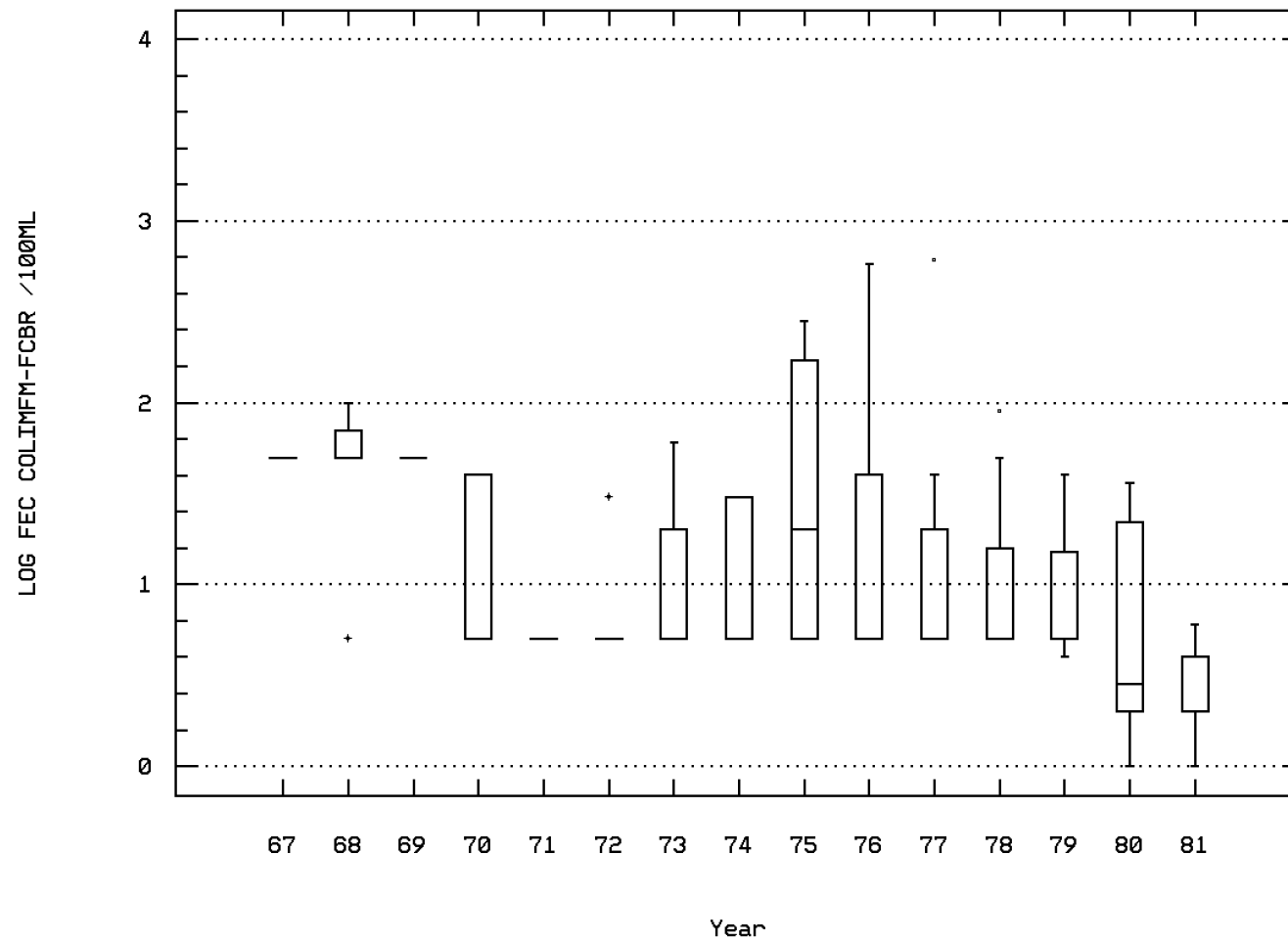
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 31616

LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR

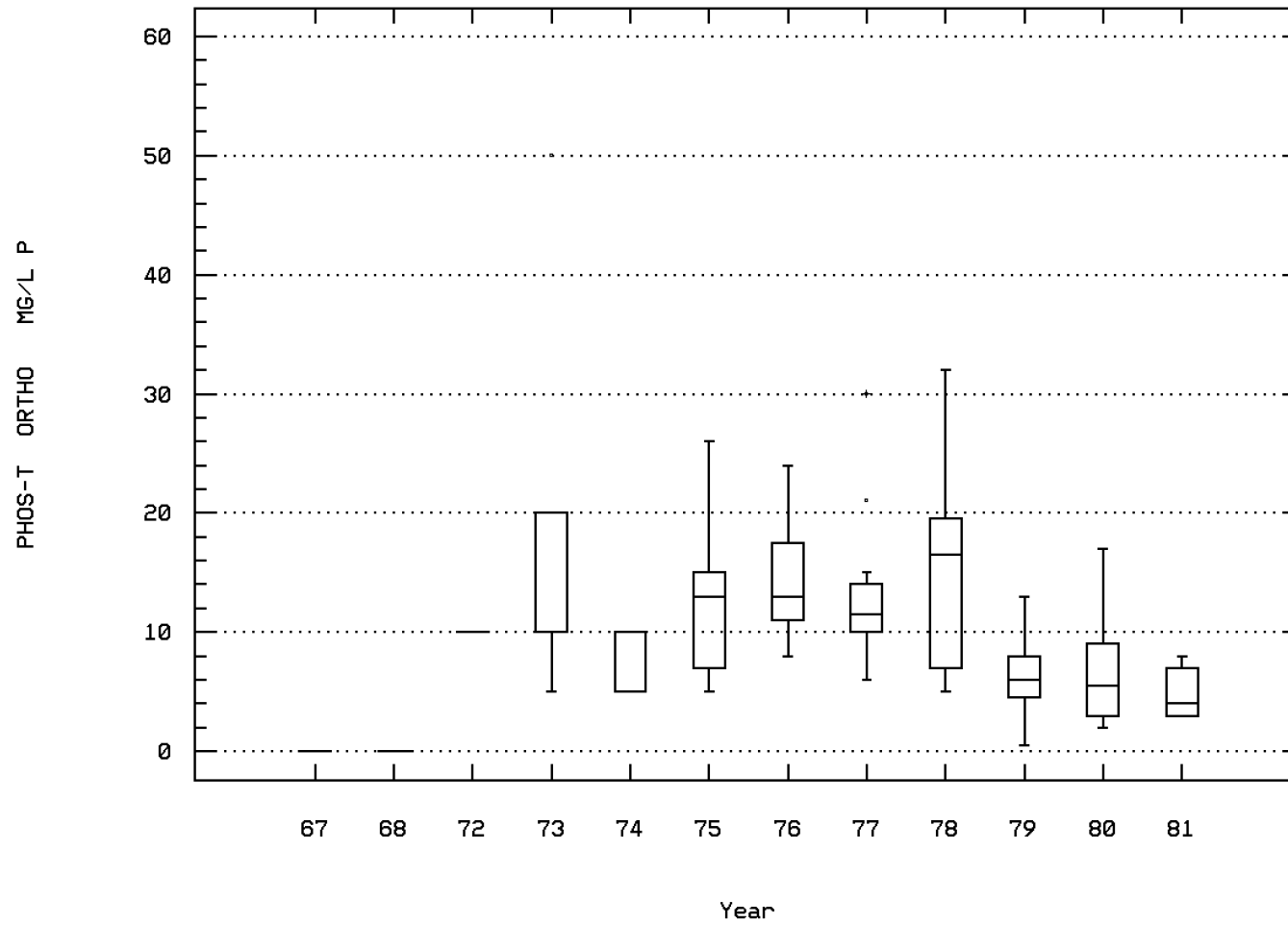


PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/

(X 0.001)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	41	14.	13.085	20.	5.	20.849	4.566	7.	9.	17.	19.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	26	1.	1.042	1.8	0.5	0.153	0.391	0.5	0.7	1.4	1.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	27	310.	306.667	330.	285.	180.769	13.445	289.	290.	320.	325.
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	41	9.6	9.624	11.2	7.7	0.864	0.929	8.2	9.	10.4	10.8
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	38	1.55	1.547	3.	0.25	0.473	0.688	0.5	1.175	1.925	2.61
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	39	8.1	8.074	8.5	7.6	0.049	0.222	7.7	8.	8.2	8.4
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	39	8.1	8.016	8.5	7.6	0.053	0.23	7.7	8.	8.2	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	39	0.008	0.01	0.025	0.003	0.	0.005	0.004	0.006	0.01	0.02
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/67-05/12/81	17	153.	152.824	164.	141.	44.279	6.654	143.4	147.	157.5	162.4
00500p	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	24	205.	204.667	223.	189.	69.101	8.313	190.5	200.25	210.75	216.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	36	4.	4.542	18.	0.5	14.42	3.797	1.	2.	5.	10.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	25	0.29	0.291	0.45	0.16	0.007	0.084	0.176	0.22	0.35	0.41
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	40	0.069	0.074	0.184	0.	0.002	0.043	0.003	0.046	0.103	0.13
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/06/67-07/18/75	16	0.2	0.199	0.3	0.1	0.004	0.059	0.1	0.155	0.25	0.279
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	40	0.03	0.036	0.085	0.01	0.	0.015	0.02	0.027	0.045	0.051
00900p	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	14	164.5	162.929	175.	150.	56.379	7.509	151.	155.75	168.25	173.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	24	3.	3.167	5.	2.	0.319	0.565	3.	3.	3.	4.
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	20	1250.	2087.5	7300.	50.	4805230.263	2192.084	300.	350.	3375.	6860.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	12/06/67-09/04/79	20	3.067	3.044	3.863	1.699	0.317	0.563	2.477	2.533	3.527	3.833
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			1107.122								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	38	10.	24.974	280.	4.	2106.243	45.894	5.	5.	30.	50.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	38	1.	1.117	2.447	0.602	0.197	0.444	0.699	0.699	1.477	1.699
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.091								
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	25	202.	200.08	214.	185.	71.993	8.485	186.8	193.5	208.	211.
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	32	0.014	0.014	0.032	0.	0.	0.009	0.001	0.006	0.02	0.025

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	27	2.5	2.43	6.	0.	2.426	1.558	0.4	1.	3.5	4.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	19	1.	1.095	1.8	0.4	0.189	0.435	0.5	0.7	1.5	1.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	20	315.	314.25	335.	295.	92.829	9.635	300.5	310.	320.	329.5
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	26	12.65	12.438	14.	9.4	1.348	1.161	10.24	12.	13.225	13.63
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	26	1.95	1.848	3.2	0.25	0.67	0.819	0.67	1.15	2.4	3.
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	27	8.	8.063	8.3	7.8	0.021	0.145	7.88	8.	8.2	8.22
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	27	8.	8.04	8.3	7.8	0.021	0.146	7.88	8.	8.2	8.22
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	27	0.01	0.009	0.016	0.005	0.	0.003	0.006	0.006	0.01	0.013
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/67-05/12/81	11	160.	158.909	165.	155.	9.291	3.048	155.	155.	160.	164.2
00500p	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	18	208.5	208.278	220.	192.	46.448	6.815	197.4	205.	212.25	218.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	25	3.	3.18	8.	0.5	5.914	2.432	0.5	1.	6.	7.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	18	0.235	0.247	0.42	0.13	0.004	0.062	0.184	0.21	0.28	0.339
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	27	0.05	0.052	0.09	0.	0.	0.022	0.02	0.042	0.07	0.082
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/06/67-07/18/75	9	0.3	0.272	0.35	0.02	0.01	0.098	0.02	0.27	0.315	0.35
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	27	0.025	0.029	0.08	0.014	0.	0.015	0.016	0.018	0.036	0.052
00900p	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	9	170.	168.444	176.	160.	24.778	4.978	160.	164.	171.5	176.
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	18	3.	3.	4.	2.	0.118	0.343	2.9	3.	3.	3.1
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	13	100.	234.615	1500.	50.	153076.923	391.25	50.	50.	250.	1020.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	13	2.	2.094	3.176	1.699	0.196	0.443	1.699	1.699	2.389	2.897
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	GEOMETRIC MEAN =			124.281								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	27 ###	5.	7.852	50.	1.	150.593	12.272	1.8	5.	5.	18.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	27 ###	0.699	0.685	1.699	0.	0.136	0.369	0.241	0.699	0.699	1.14
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.837								
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	18	205.	205.056	218.	192.	36.761	6.063	197.4	202.	208.	214.4
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	23	0.007	0.007	0.018	0.	0.	0.005	0.	0.004	0.01	0.012

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	16	4.	4.444	9.	1.1	5.184	2.277	1.73	3.	6.	8.65
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	10	0.75	0.83	1.7	0.4	0.191	0.437	0.4	0.475	1.225	1.66
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	10	307.5	307.5	330.	290.	129.167	11.365	290.5	298.75	315.	328.5
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	16	12.2	12.075	13.2	10.8	0.422	0.65	10.94	11.65	12.5	12.99
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	16	1.65	1.731	3.3	0.8	0.498	0.706	0.87	1.225	2.15	2.95
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	16	8.1	8.088	8.5	7.4	0.078	0.28	7.54	8.	8.2	8.43
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	16	8.1	7.985	8.5	7.4	0.09	0.3	7.54	8.	8.2	8.43
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	16	0.008	0.01	0.04	0.003	0.	0.009	0.004	0.006	0.01	0.03
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/67-05/12/81	6	157.	156.333	166.	147.	57.067	7.554	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	10	202.	201.8	215.	188.	54.844	7.406	188.8	197.5	206.25	214.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	15	2.	2.633	8.	0.5	4.517	2.125	0.8	1.	4.	6.8
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	10	0.22	0.316	1.2	0.15	0.099	0.314	0.152	0.193	0.268	1.112
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	16	0.043	0.047	0.081	0.	0.	0.019	0.021	0.039	0.059	0.08
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/06/67-07/18/75	6	0.305	0.307	0.35	0.25	0.001	0.034	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	16	0.021	0.025	0.07	0.	0.	0.016	0.007	0.017	0.03	0.054
00900p	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	5	162.	163.4	172.	149.	89.8	9.476	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	10	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	6	150.	691.667	3200.	50.	1536416.667	1239.523	**	**	**	**
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	6	2.151	2.367	3.505	1.699	0.425	0.652	**	**	**	**
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	6	150.	691.667	3200.	50.	1536416.667	1239.523	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	15 ##	5.	11.6	60.	2.	317.257	17.812	2.	5.	6.	54.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	15 ##	0.699	0.803	1.778	0.301	0.173	0.416	0.301	0.699	0.778	1.731
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	15 ##	0.699	0.803	1.778	0.301	0.173	0.416	0.301	0.699	0.778	1.731
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	10	199.5	199.8	214.	188.	54.622	7.391	188.4	194.25	205.	213.1
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	13	0.007	0.007	0.015	0.	0.	0.004	0.001	0.003	0.01	0.014

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

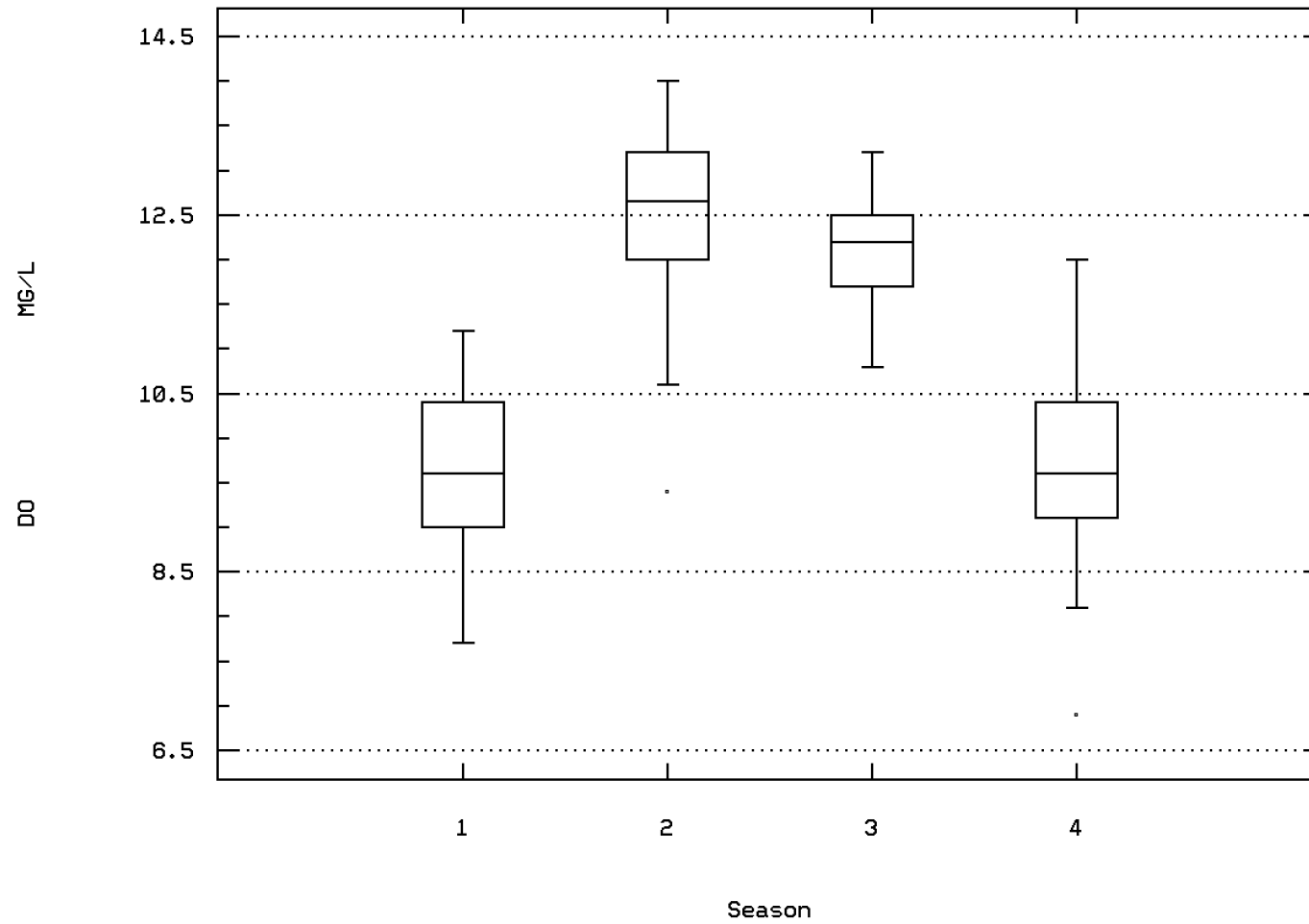
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-05/12/81	43	15.	14.837	21.5	5.5	18.901	4.348	8.5	12.	18.	20.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	20	0.95	1.34	4.4	0.6	0.828	0.91	0.61	0.8	1.575	2.64
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	22	300.	299.091	325.	280.	137.229	11.714	280.	290.	305.	317.
00300p	OXYGEN, DISSOLVED MG/L	11/06/67-05/12/81	43	9.6	9.723	12.	6.9	1.159	1.077	8.34	9.1	10.4	11.12
00310p	BOD, 5 DAY, 20 DEG C MG/L	12/06/67-05/12/81	36	1.7	1.742	3.4	0.5	0.408	0.639	0.87	1.25	2.1	2.66
00400p	PH (STANDARD UNITS)	12/06/67-05/12/81	36	8.2	8.175	8.6	7.5	0.058	0.241	7.9	8.	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	12/06/67-05/12/81	36	8.2	8.104	8.6	7.5	0.063	0.251	7.9	8.	8.3	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/67-05/12/81	36	0.006	0.008	0.032	0.003	0.	0.005	0.003	0.005	0.01	0.013
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/67-05/12/81	17	155.	154.	175.	128.	90.75	9.526	143.2	149.5	157.5	166.2
00500p	RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	19	201.	199.474	213.	184.	55.819	7.471	184.	195.	205.	209.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	30	4.	5.	14.	0.	15.224	3.902	0.55	1.75	7.25	10.9
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	19	0.27	0.303	0.47	0.2	0.005	0.068	0.25	0.26	0.34	0.44
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/67-05/12/81	36	0.05	0.05	0.103	0.	0.001	0.029	0.	0.036	0.07	0.093
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/06/67-07/18/75	18	0.22	0.234	0.4	0.1	0.007	0.085	0.1	0.178	0.3	0.355
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/67-05/12/81	34	0.031	0.04	0.16	0.	0.001	0.033	0.02	0.026	0.04	0.077
00900p	HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	11	160.	161.091	169.	152.	33.091	5.752	152.2	157.	166.	168.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	20	3.	5.65	60.	2.	163.818	12.799	2.	3.	3.	3.
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	24	1600.	4241.667	27000.	50.	48014057.971	6929.218	50.	62.5	487.5	16300.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	24	3.203	2.924	4.431	1.699	0.916	0.957	1.699	1.774	3.688	4.188
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	12/06/67-09/04/79	24	3.203	2.924	4.431	1.699	0.916	0.957	1.699	1.774	3.688	4.188
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	36 ##	5.	55.639	610.	2.	18867.666	137.36	5.	5.	46.5	121.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	36 ##	0.699	1.129	2.785	0.301	0.416	0.645	0.699	0.699	1.663	2.069
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/06/67-05/12/81	36 ##	0.699	1.129	2.785	0.301	0.416	0.645	0.699	0.699	1.663	2.069
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	19	195.	193.053	211.	145.	188.942	13.746	182.	192.	198.	208.
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/06/67-05/12/81	28	0.008	0.01	0.05	0.	0.	0.009	0.	0.005	0.011	0.018

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0008 Parameter Code: 00300

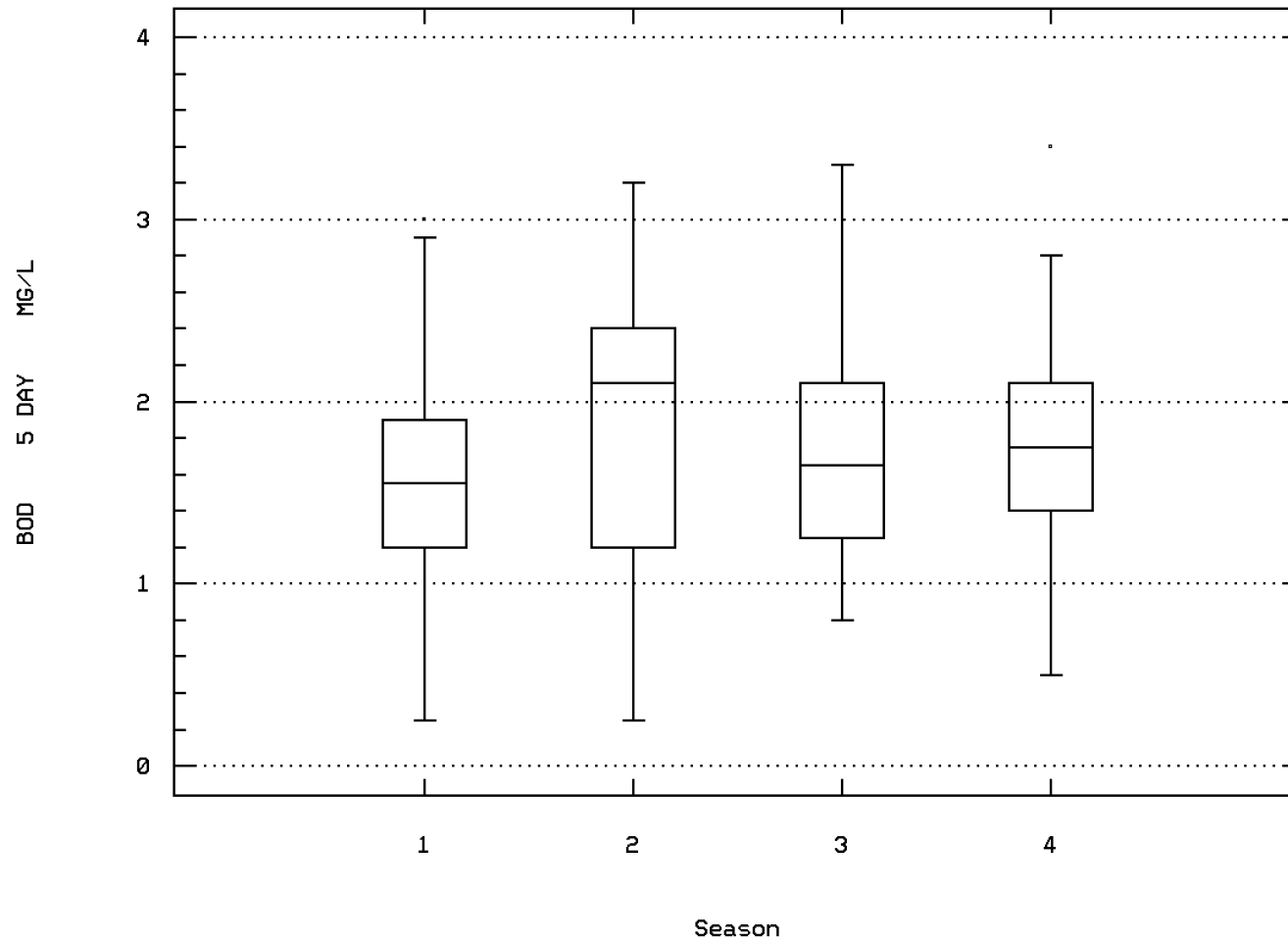
OXYGEN, DISSOLVED



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00310

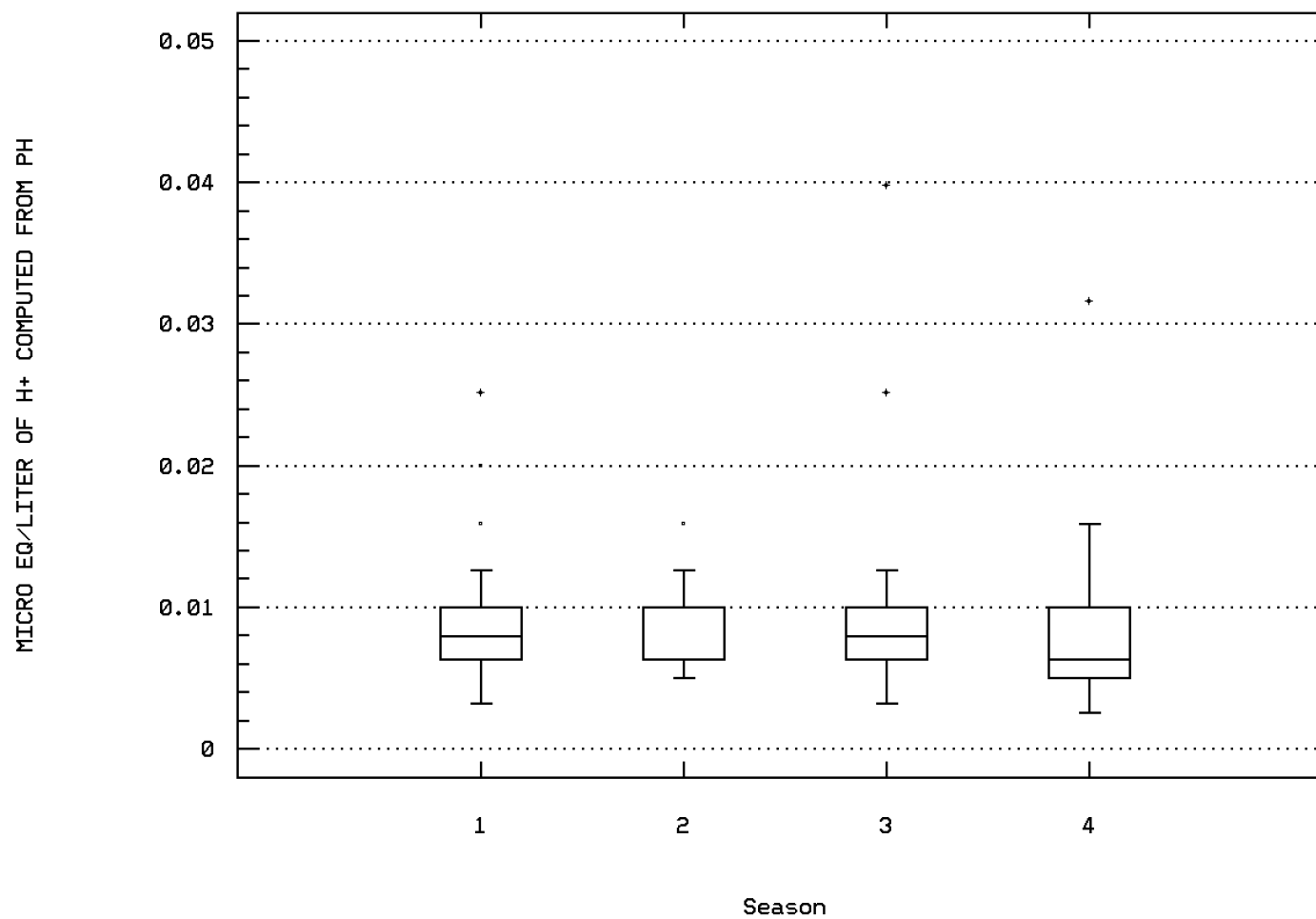
BOD, 5 DAY, 20 DEG C



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00400

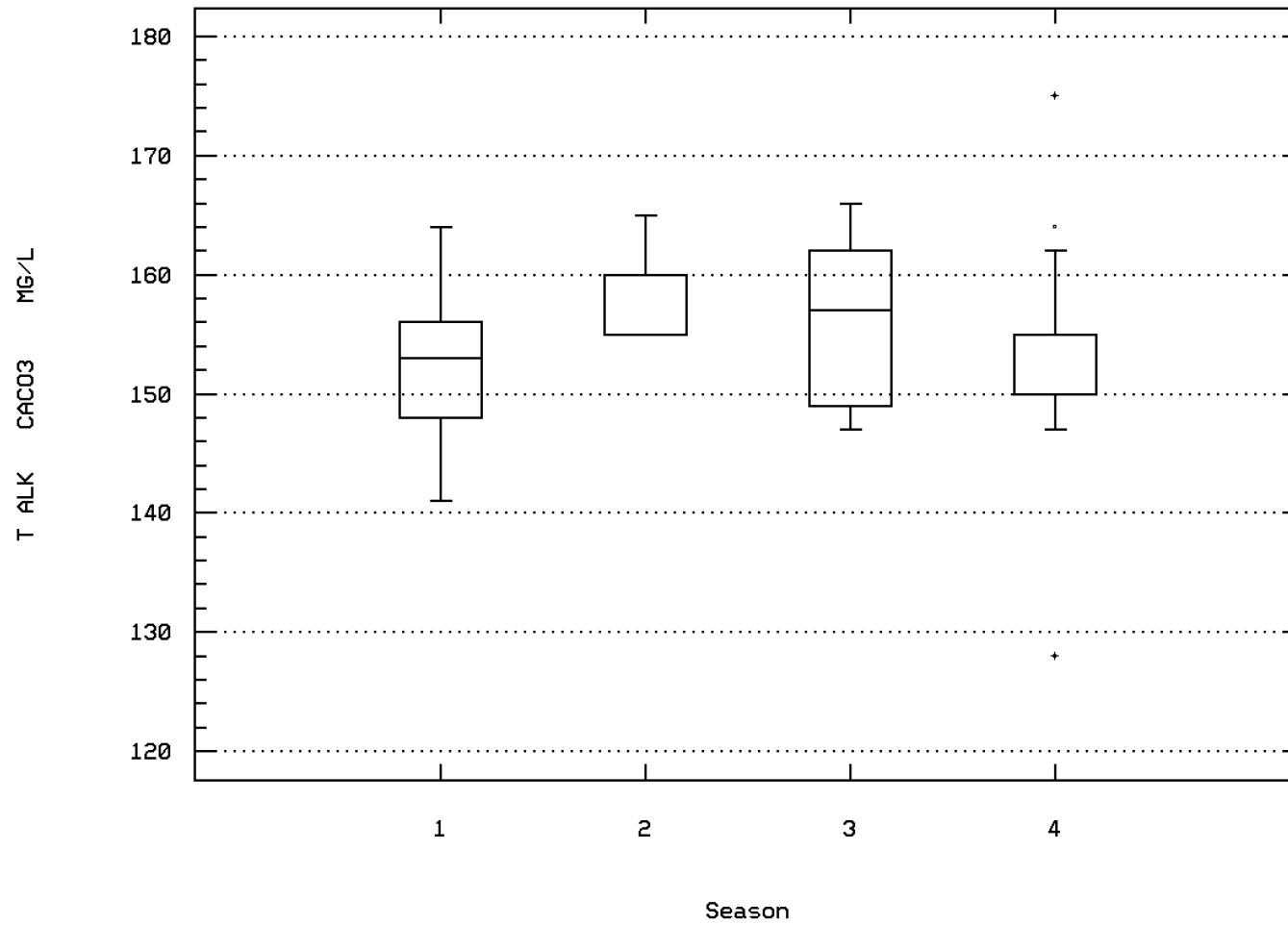
MICRO EQ/LITER OF H+ COMPUTED FROM PH



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00410

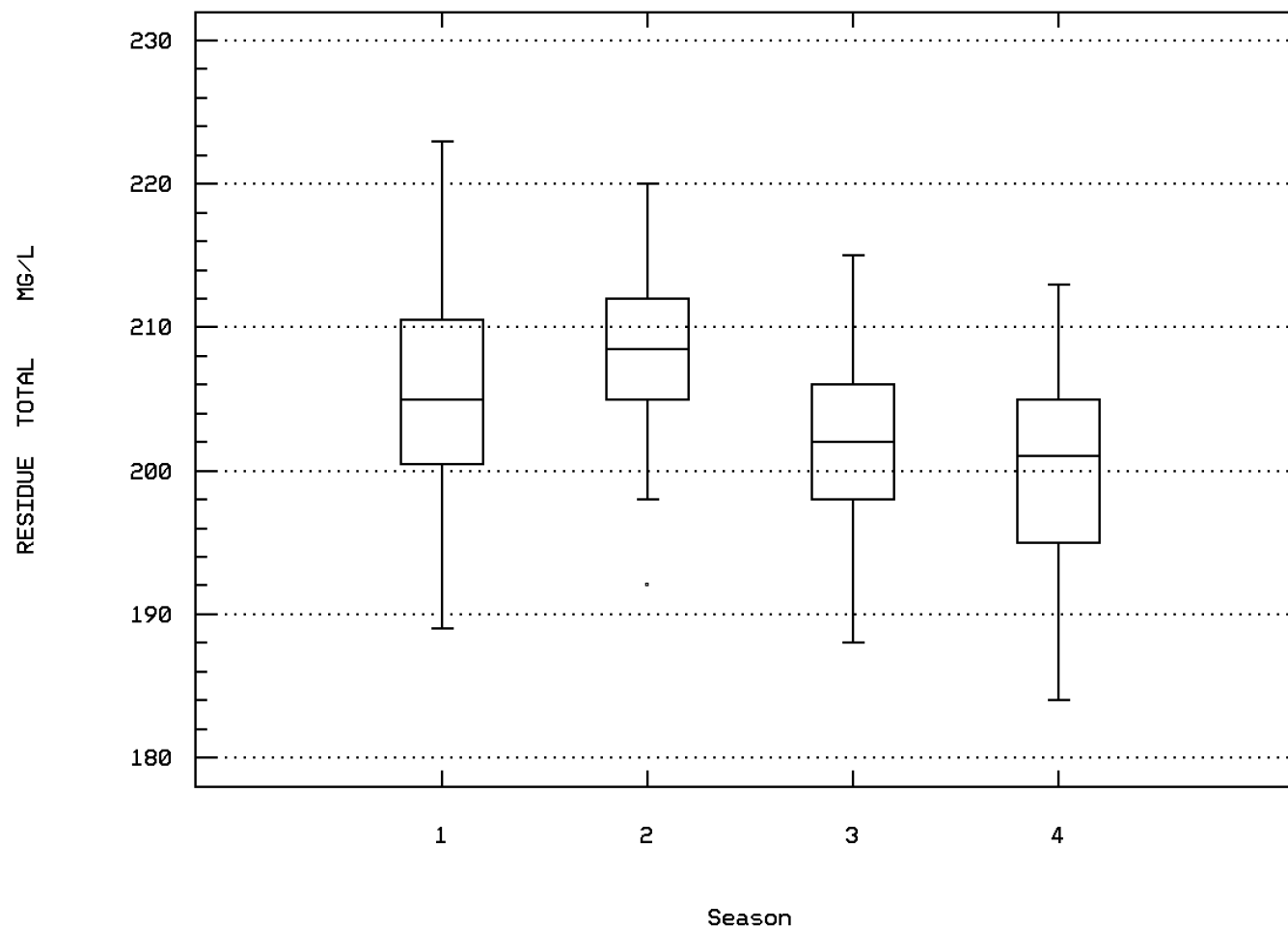
ALKALINITY, TOTAL (MG/L AS CaCO3)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00500

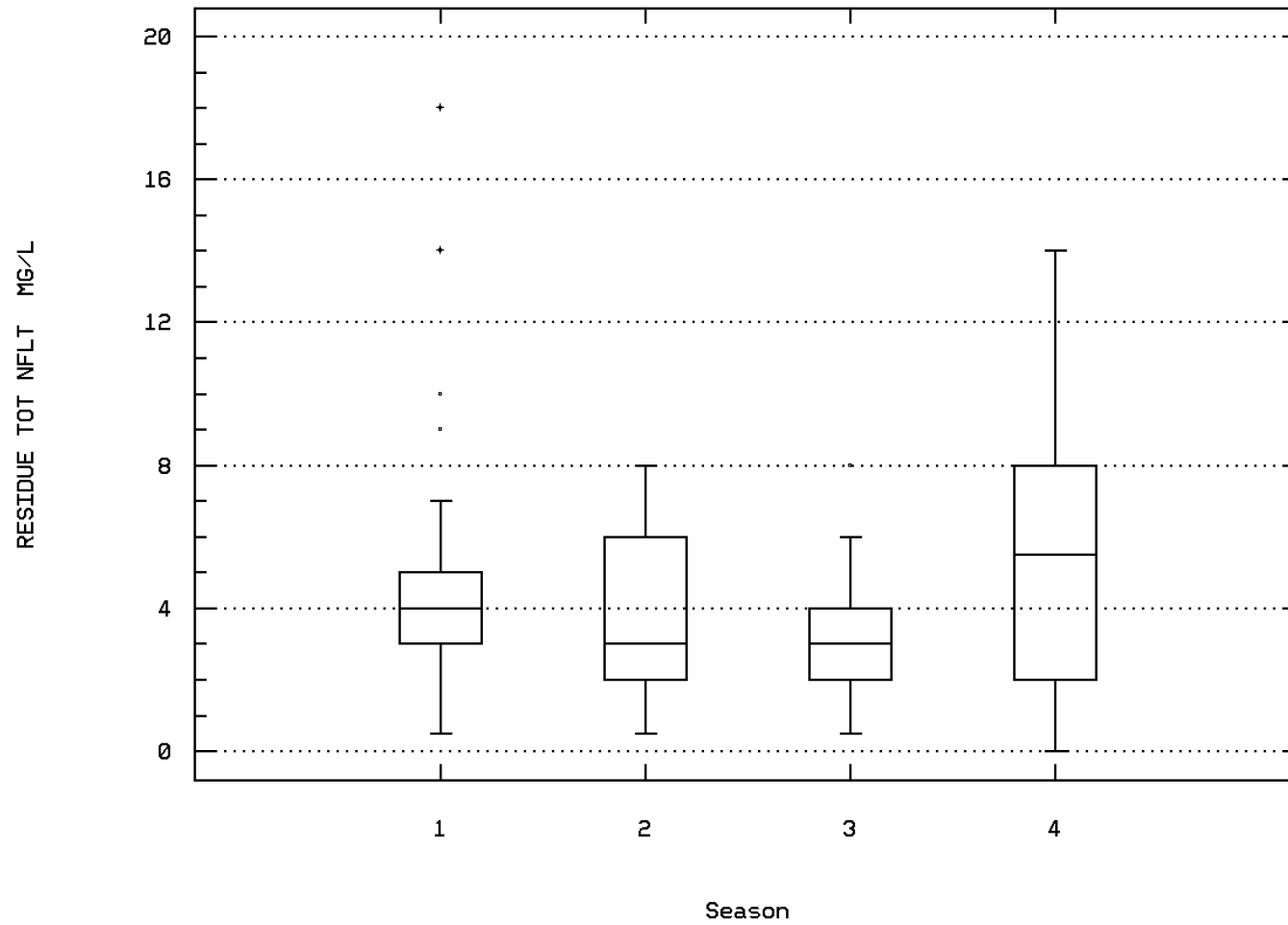
RESIDUE, TOTAL (MG/L)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00530

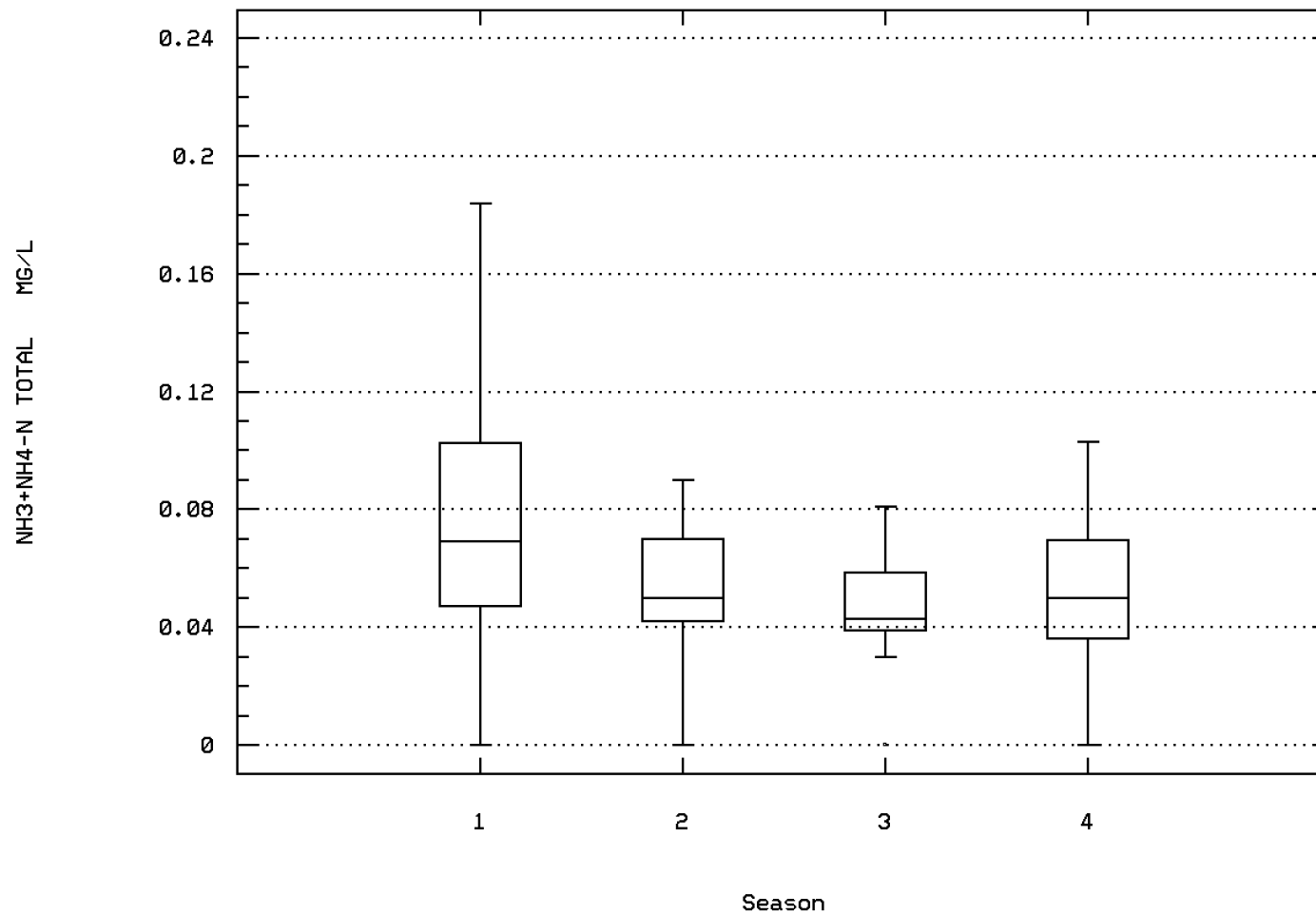
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00610

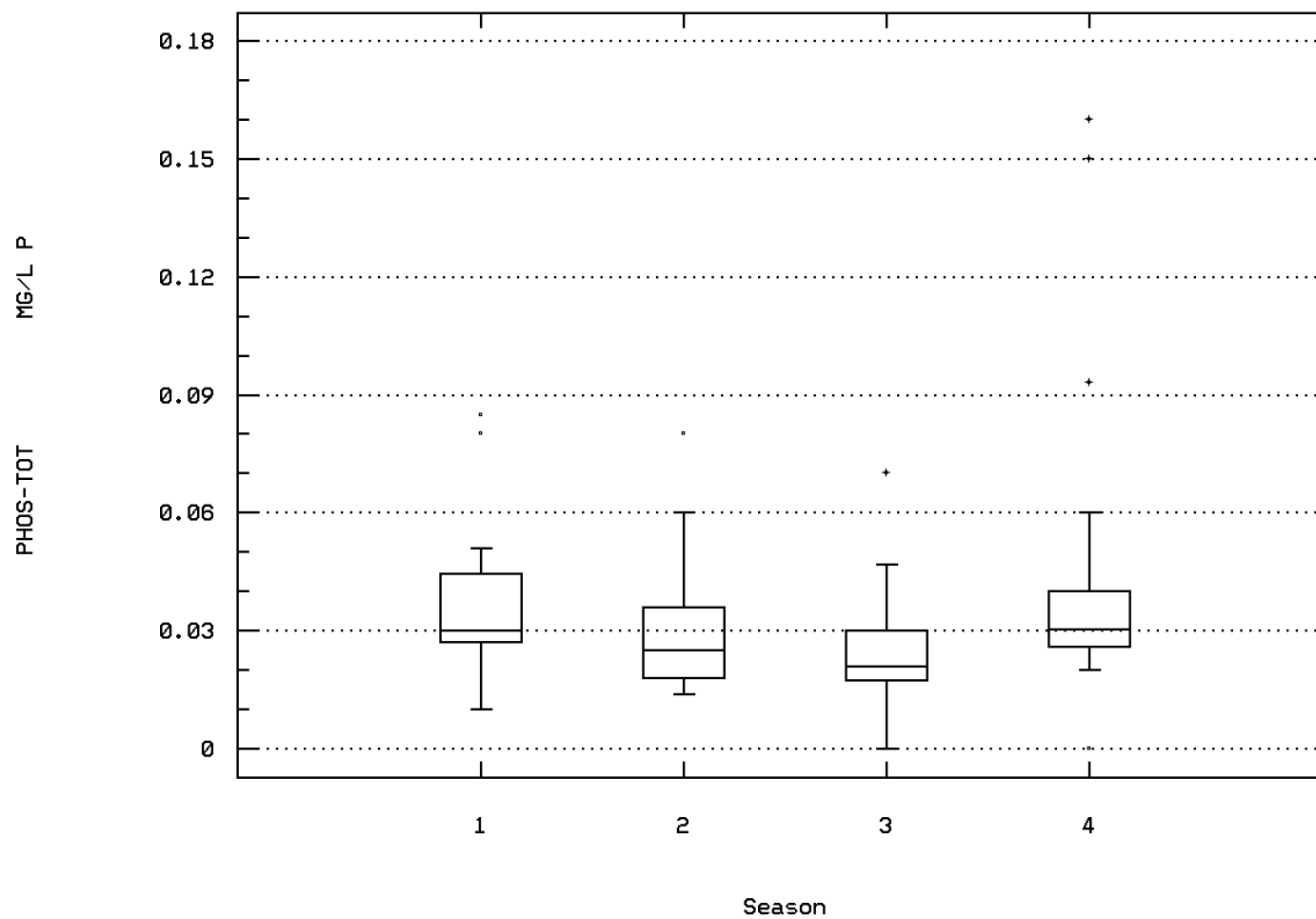
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00665

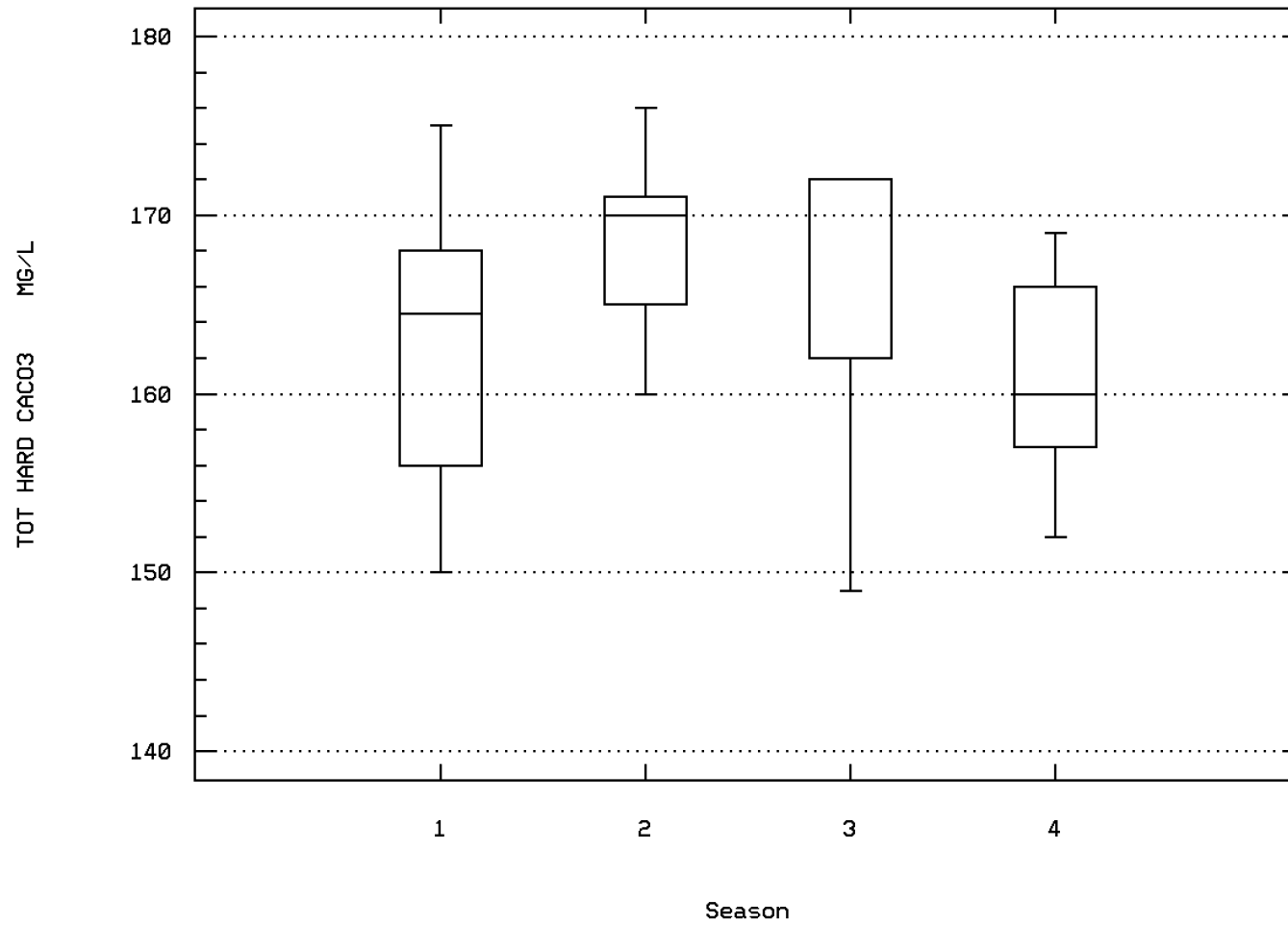
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00900

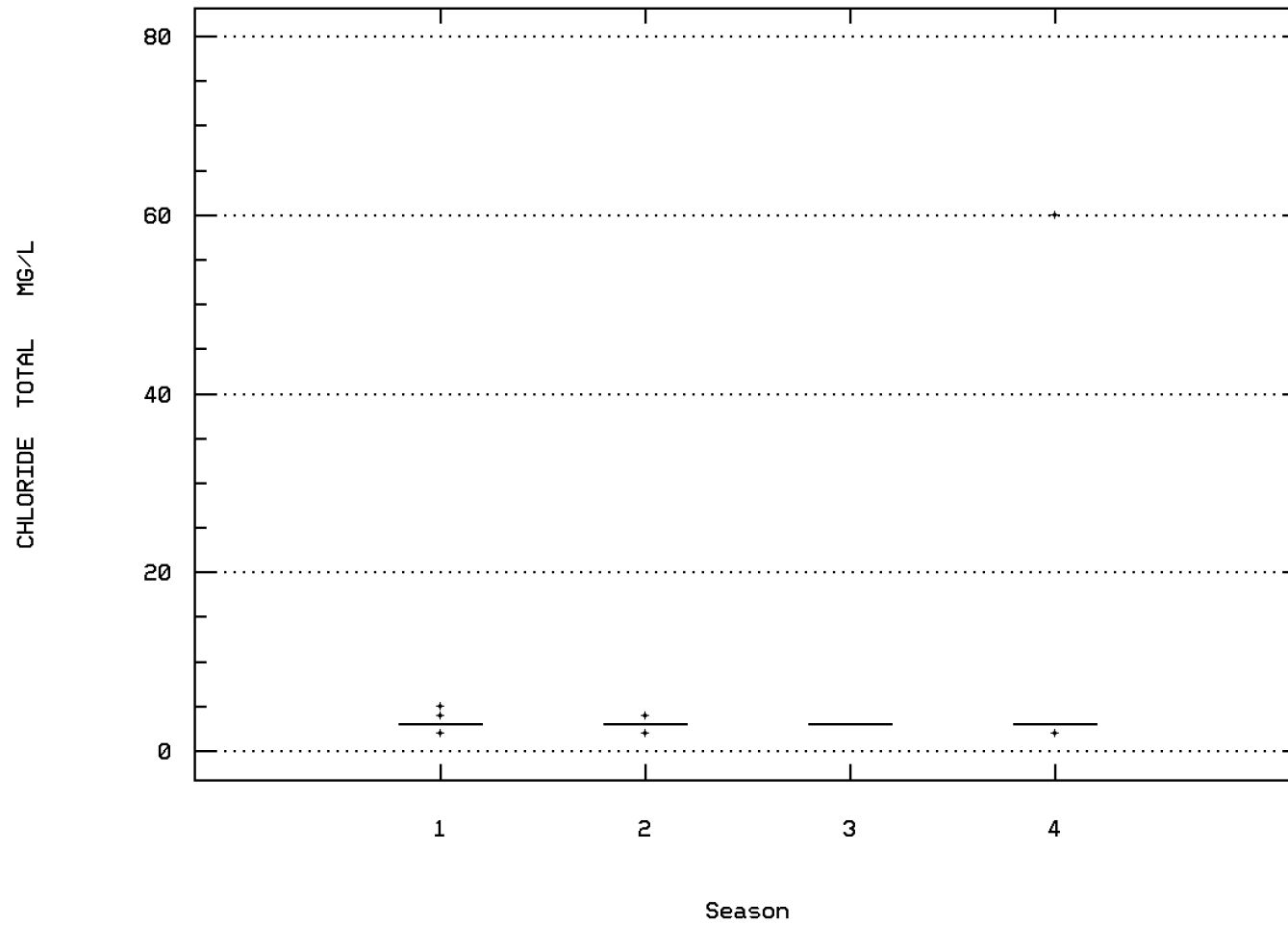
HARDNESS, TOTAL (MG/L AS CaCO3)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 00940

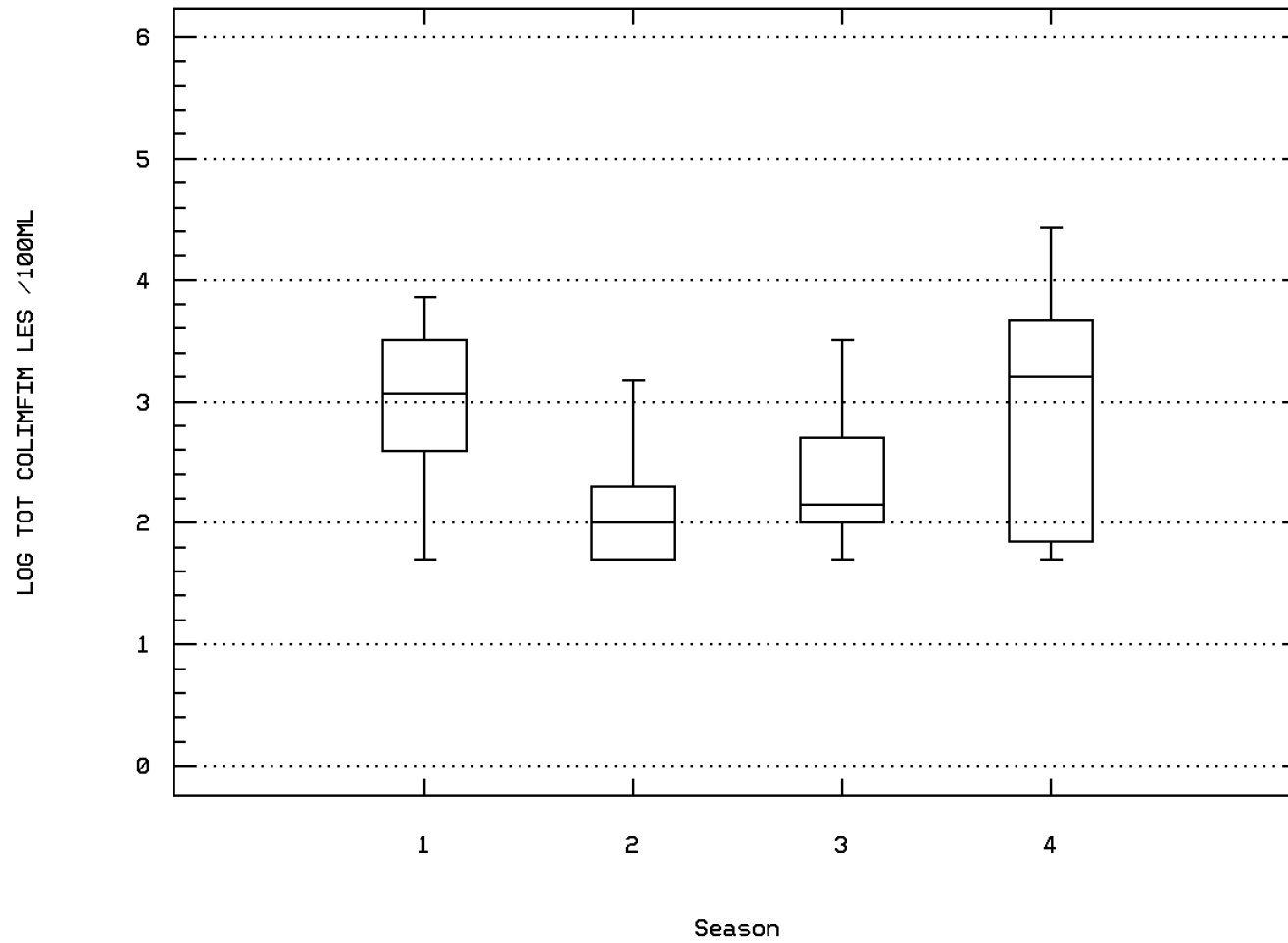
CHLORIDE, TOTAL IN WATER



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 31504

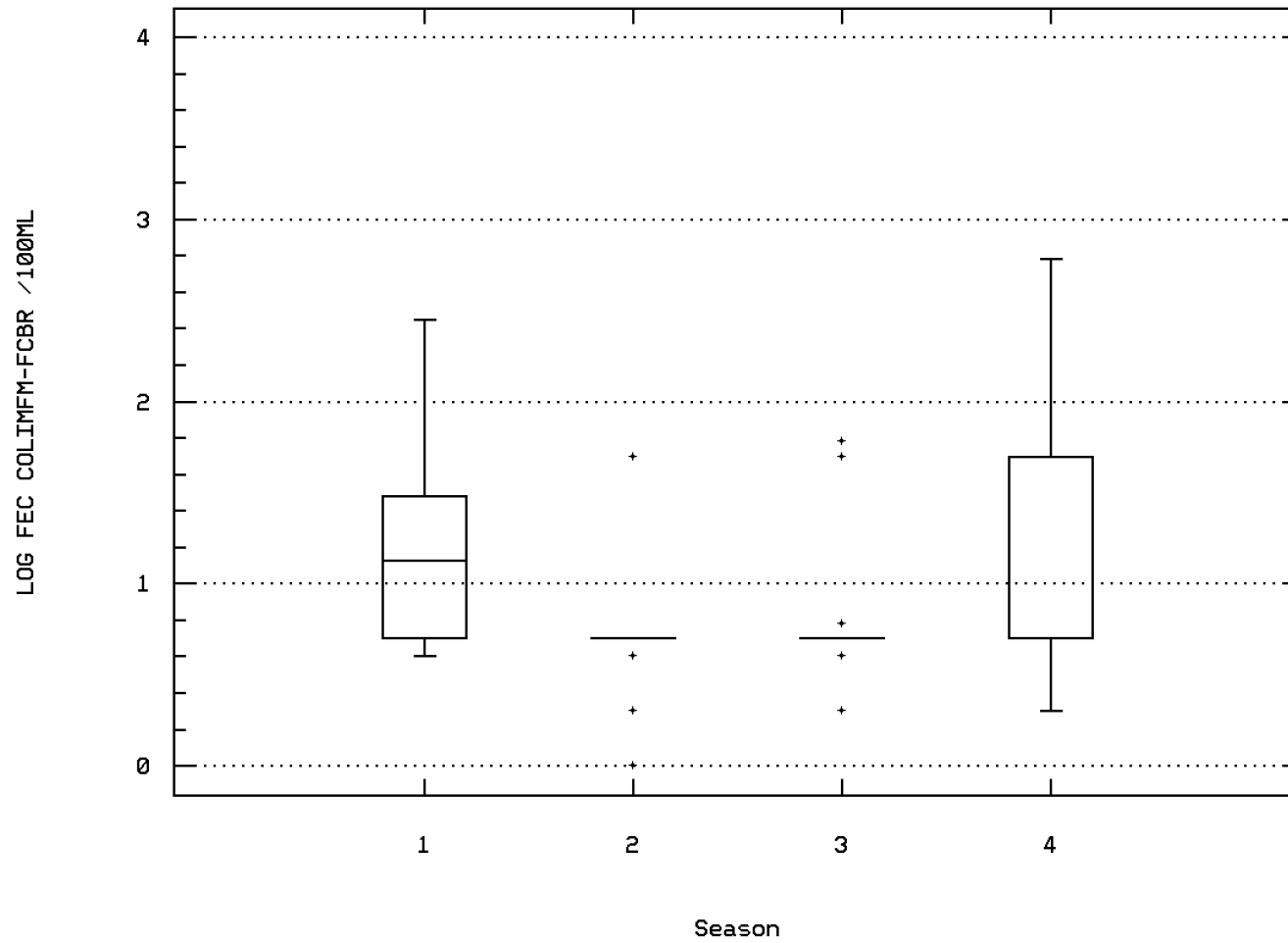
LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 31616

LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR

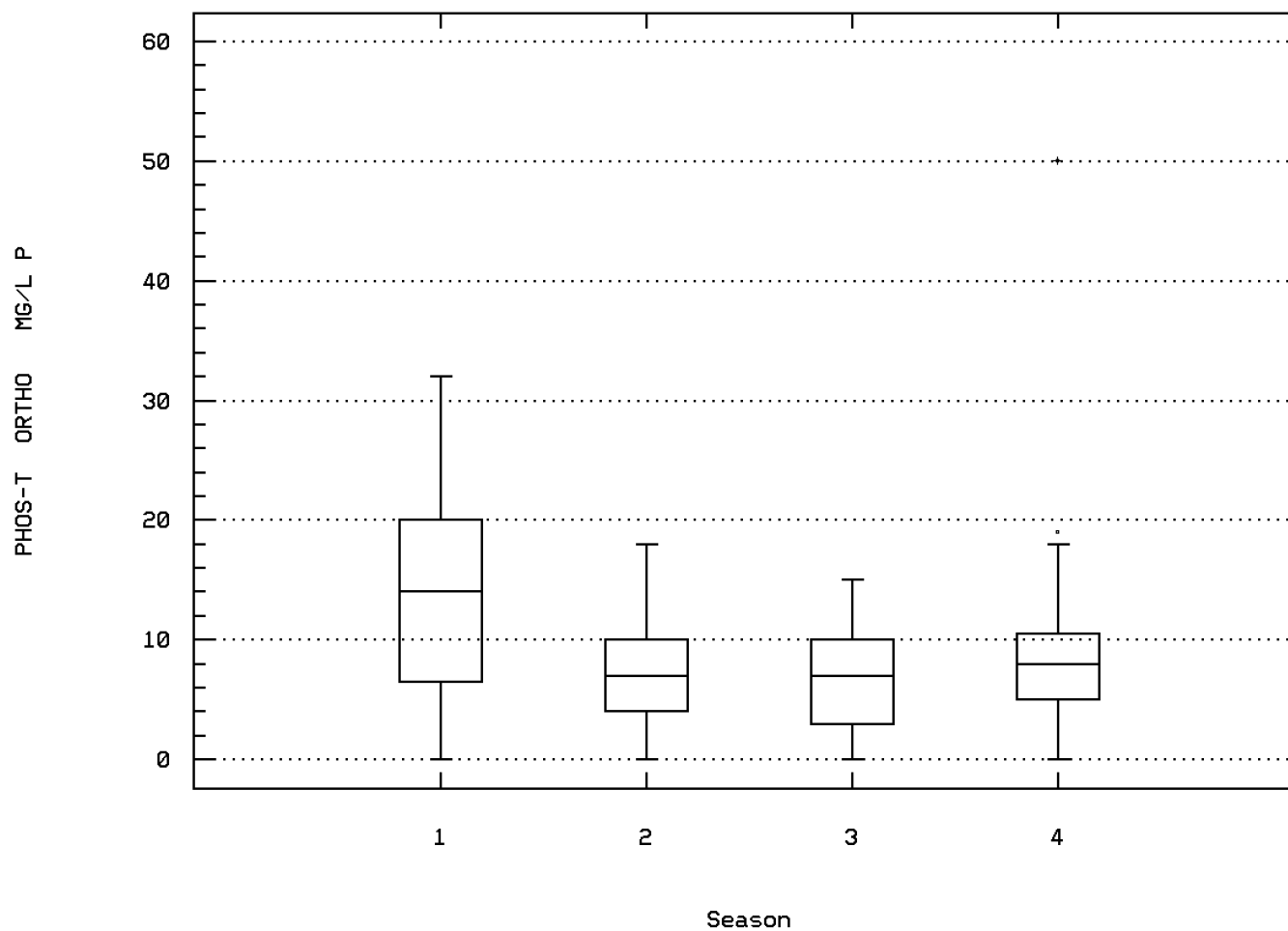


PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station: SLBE0008 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/

(X 0.001)



PLATTE R. AT US-31 BRIDGE; HOMESTEAD TW

Station Inventory for Station: SLBE0009

NPS Station ID: SLBE0009
 Location: 26N 14W 13AAB 01 BENZIE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: C
 Minor Basin:
 RF1 Index: 04060104
 RF3 Index: 04060104001700.00
 Description:

LAT/LON: 44.658337/ -85.941393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 443930085562901
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.29

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/77-09/15/82	2	9.25	9.25	9.5	9.	0.125	0.354	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	07/27/77-07/27/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/82-09/15/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	07/27/77-09/15/82	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/77-09/15/82	2	555.	555.	559.	551.	32.	5.657	**	**	**	**
00400 PH (STANDARD UNITS)	07/27/77-09/15/82	2	7.75	7.75	8.	7.5	0.125	0.354	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/27/77-09/15/82	2	7.682	7.682	8.	7.5	0.134	0.367	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/77-09/15/82	2	0.021	0.021	0.032	0.01	0.	0.015	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	09/15/82-09/15/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	09/15/82-09/15/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/82-09/15/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	07/27/77-07/27/77	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/77-07/27/77	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	07/27/77-07/27/77	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	07/27/77-07/27/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	1	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/27/77-09/15/82	2	0.19	0.19	0.32	0.06	0.034	0.184	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/77-09/15/82	2	0.335	0.335	0.34	0.33	0.	0.007	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	07/27/77-09/15/82	2 ##	0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/77-09/15/82	2	0.525	0.525	0.65	0.4	0.031	0.177	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/77-09/15/82	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/77-09/15/82	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/27/77-09/15/82	2	2.4	2.4	3.2	1.6	1.28	1.131	**	**	**	**
00689 CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/15/82-09/15/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/77-09/15/82	2	89.5	89.5	90.	89.	0.5	0.707	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	07/27/77-07/27/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/27/77-09/15/82	2	18.5	18.5	19.	18.	0.5	0.707	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/77-09/15/82	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/27/77-09/15/82	2	87.	87.	90.	84.	18.	4.243	**	**	**	**
00931 SODIUM ADSORPTION RATIO	07/27/77-09/15/82	2	4.2	4.2	4.3	4.1	0.02	0.141	**	**	**	**
00932 SODIUM, PERCENT	07/27/77-09/15/82	2	67.5	67.5	68.	67.	0.5	0.707	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/27/77-09/15/82	2	1.15	1.15	1.2	1.1	0.005	0.071	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/27/77-09/15/82	2	68.	68.	69.	67.	2.	1.414	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/27/77-09/15/82	2	12.5	12.5	14.	11.	4.5	2.121	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	07/27/77-09/15/82	2	1.1	1.1	1.2	1.	0.02	0.141	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	07/27/77-09/15/82	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002 ARSENIC, TOTAL (UG/L AS AS)	07/27/77-09/15/82	2	7.	7.	9.	5.	8.	2.828	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	07/27/77-09/15/82	2 ##	75.	75.	100.	50.	1250.	35.355	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	07/27/77-09/15/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01015 BISMUTH, DISSOLVED (UG/L AS BI)	09/15/82-09/15/82	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)	07/27/77-09/15/82	2	130.	130.	130.	130.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	07/27/77-09/15/82	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/27/77-09/15/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	07/27/77-09/15/82	2 ##	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/27/77-09/15/82	2 ##	1.	1.	2.	0.	2.	1.414	**	**	**	**
01044 IRON, SUSPENDED (UG/L AS FE)	09/15/82-09/15/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	07/27/77-09/15/82	2	100.	100.	100.	100.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	07/27/77-09/15/82	2	86.	86.	92.	80.	72.	8.485	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	07/27/77-09/15/82	2	12.	12.	19.	5.	98.	9.899	**	**	**	**
01054 MANGANESE, SUSPENDED (UG/L AS MN)	07/27/77-09/15/82	2	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	07/27/77-09/15/82	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	07/27/77-09/15/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01062 MOLYBDENUM, TOTAL (UG/L AS MO)	07/27/77-09/15/82	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/27/77-09/15/82	2	4.5	4.5	8.	1.	24.5	4.95	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	07/27/77-09/15/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01082 STRONTIUM, TOTAL (UG/L AS SR)	07/27/77-09/15/82	2	595.	595.	620.	570.	1250.	35.355	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	09/15/82-09/15/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/27/77-09/15/82	2	50.	50.	60.	40.	200.	14.142	**	**	**	**
01100 TIN, DISSOLVED (UG/L AS SN)	09/15/82-09/15/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	07/27/77-09/15/82	2	50.	50.	60.	40.	200.	14.142	**	**	**	**
01120 GALLIUM, DISSOLVED (UG/L AS GA)	09/15/82-09/15/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01125 GERMANIUM, DISSOLVED (UG/L AS GE)	09/15/82-09/15/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	07/27/77-09/15/82	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	07/27/77-09/15/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01150 TITANIUM, DISSOLVED (UG/L AS TI)	09/15/82-09/15/82	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01160 ZIRCONIUM, DISSOLVED (UG/L AS ZR)	09/15/82-09/15/82	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
07000 TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	09/15/82-09/15/82	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/27/77-09/15/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39034 PERTHANE IN WHOLE WATER SAMPLE (UG/L)	09/15/82-09/15/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39250 NAPHTHALENES, POLYCHLORINATED (UG/L)	07/27/77-09/15/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39340 GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/77-09/15/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39360 DDD IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39388 ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39398 ETHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39410 HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39530 MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39540 PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39730 2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39740 2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39755 MIREX, TOTAL (UG/L)	09/15/82-09/15/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39760 SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39786 TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39790 METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/27/77-09/15/82	2	309.	309.	310.	308.	2.	1.414	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/77-09/15/82	2	310.	310.	311.	309.	2.	1.414	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/77-07/27/77	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-09/15/82	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/15/82-09/15/82	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	07/27/77-07/27/77	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/27/77-09/15/82	2 ##	0.15	0.15	0.25	0.05	0.02	0.141	**	**	**
80020	URANIUM, DISS., BY EXTRACTION FLUOROMETRIC METHOD	09/15/82-09/15/82	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	09/15/82-09/15/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0009

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim. 50.	1	0	0.00										1	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim. 50.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim. 9.	2	0	0.00	1	0	0.00							1	0	0.00
		Other-Lo Lim. 6.5	2	0	0.00	1	0	0.00							1	0	0.00
00403	PH, LAB	Other-Hi Lim. 9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim. 6.5	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water 1.	2	0	0.00	1	0	0.00							1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water 10.	1	0	0.00										1	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water 10.	2	0	0.00	1	0	0.00							1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute 0.022	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 0.2	2	0	0.00	1	0	0.00							1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute 860.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 250.	2	0	0.00	1	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water 250.	2	0	0.00	1	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water 4.	2	0	0.00	1	0	0.00							1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute 360.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 50.	2	0	0.00	1	0	0.00							1	0	0.00
01007	BARIUM, TOTAL	Drinking Water 2000.	2	0	0.00	1	0	0.00							1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute 130.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute 3.9	2	1	0.50	1	0	0.00							1	1	1.00
		Drinking Water 5.	2	0	0.00	1	0	0.00							1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water 100.	2	0	0.00	1	0	0.00							1	0	0.00
01042	COPPER, TOTAL	Fresh Acute 18.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 1300.	2	0	0.00	1	0	0.00							1	0	0.00
01051	LEAD, TOTAL	Fresh Acute 82.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 15.	2	1	0.50	1	0	0.00							1	1	1.00
01067	NICKEL, TOTAL	Fresh Acute 1400.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 100.	2	0	0.00	1	0	0.00							1	0	0.00
01077	SILVER, TOTAL	Fresh Acute 4.1	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 100.	2	0	0.00	1	0	0.00							1	0	0.00
01092	ZINC, TOTAL	Fresh Acute 120.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 5000.	2	0	0.00	1	0	0.00							1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute 20.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 50.	2	0	0.00	1	0	0.00							1	0	0.00
07000	TRITIUM, TOTAL	Drinking Water 20000.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute 3.	2	0	0.00	1	0	0.00							1	0	0.00
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute 2.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 0.2	2	0	0.00	1	0	0.00							1	0	0.00
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute 2.4	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 2.	2	0	0.00	1	0	0.00							1	0	0.00
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute 0.6	2	0	0.00	1	0	0.00							1	0	0.00
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute 1050.	2	0	0.00	1	0	0.00							1	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute 1.1	2	0	0.00	1	0	0.00							1	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute 2.5	2	0	0.00	1	0	0.00							1	0	0.00
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute 0.22	2	0	0.00	1	0	0.00							1	0	0.00
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute 0.18	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water 2.	2	0	0.00	1	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0009

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	3.	2	0	0.00	1	0	0.00						1	0	0.00
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.4	2	0	0.00	1	0	0.00						1	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00	1	0	0.00						1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	2	0	0.00	1	0	0.00						1	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00						1	0	0.00
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	2	0	0.00	1	0	0.00						1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	2.	2	0	0.00	1	0	0.00						1	0	0.00
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00	1	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0010

NPS Station ID: SLBE0010
 Location: 26N 14W 13ABA 01 BENZIE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: U
 Minor Basin:
 RF1 Index: 04060104
 RF3 Index: 04060104002004.60
 Description:

LAT/LON: 44.658615/ -85.945004

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 12.89

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 443931085564201
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.90
 Distance from RF3: 0.12

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/77-09/15/82	2	9.25	9.25	9.5	9.	0.125	0.354	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	07/27/77-07/27/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/82-09/15/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	07/27/77-09/15/82	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/77-09/15/82	2	391.	391.	392.	390.	2.	1.414	**	**	**	**
00400 PH (STANDARD UNITS)	07/27/77-07/27/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/27/77-07/27/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/77-07/27/77	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	09/15/82-09/15/82	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	09/15/82-09/15/82	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/82-09/15/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	07/27/77-07/27/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/77-07/27/77	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	07/27/77-07/27/77	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	07/27/77-07/27/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/27/77-09/15/82	2	0.66	0.66	1.	0.32	0.231	0.481	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/77-09/15/82	2	0.085	0.085	0.1	0.07	0.	0.021	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	07/27/77-09/15/82	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/27/77-07/27/77	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/77-09/15/82	2	0.745	0.745	1.1	0.39	0.252	0.502	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/77-09/15/82	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/77-09/15/82	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/27/77-09/15/82	2	2.55	2.55	3.9	1.2	3.645	1.909	**	**	**	**
00689 CARBON, SUSPENDED ORGANIC (MG/L AS C)	09/15/82-09/15/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/77-09/15/82	2	210.	210.	210.	210.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	07/27/77-07/27/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/27/77-09/15/82	2	57.	57.	57.	57.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/77-09/15/82	2	16.5	16.5	17.	16.	0.5	0.707	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/27/77-09/15/82	2	3.85	3.85	4.	3.7	0.045	0.212	**	**	**	**
00931 SODIUM ADSORPTION RATIO	07/27/77-09/15/82	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	07/27/77-09/15/82	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/27/77-09/15/82	2	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/27/77-09/15/82	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/27/77-09/15/82	2	15.	15.	16.	14.	2.	1.414	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	07/27/77-09/15/82	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	07/27/77-09/15/82	2	14.5	14.5	15.	14.	0.5	0.707	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/77-09/15/82	2 ##	1.25	1.25	2	0.5	1.125	1.061	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	07/27/77-09/15/82	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/27/77-09/15/82	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	09/15/82-09/15/82	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	07/27/77-09/15/82	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/77-09/15/82	2 ##	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/77-09/15/82	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/27/77-09/15/82	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/27/77-09/15/82	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/15/82-09/15/82	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/27/77-09/15/82	2	280.	280.	360.	200.	12800.	113.137	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/27/77-09/15/82	2	180.	180.	200.	160.	800.	28.284	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/27/77-09/15/82	2	8.	8.	9.	7.	2.	1.414	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/27/77-09/15/82	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/77-09/15/82	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/27/77-09/15/82	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/27/77-09/15/82	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/77-09/15/82	2	6.	6.	9.	3.	18.	4.243	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/27/77-09/15/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	07/27/77-09/15/82	2	210.	210.	220.	200.	200.	14.142	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/15/82-09/15/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/77-09/15/82	2	240.	240.	240.	240.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	09/15/82-09/15/82	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/77-09/15/82	2	40.	40.	50.	30.	200.	14.142	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	09/15/82-09/15/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	09/15/82-09/15/82	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/27/77-09/15/82	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/77-09/15/82	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/15/82-09/15/82	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	09/15/82-09/15/82	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	09/15/82-09/15/82	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/15/82-09/15/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/27/77-09/15/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	09/15/82-09/15/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	07/27/77-09/15/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/77-09/15/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39755	MIREX, TOTAL (UG/L)	09/15/82-09/15/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/77-09/15/82	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/27/77-09/15/82	2	227.	227.	230.	224.	18.	4.243	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/77-09/15/82	2	232.5	232.5	235.	230.	12.5	3.536	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/77-07/27/77	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-09/15/82	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71886 PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/15/82-09/15/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71887 NITROGEN, TOTAL, AS NO3 - MG/L	07/27/77-07/27/77	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/27/77-09/15/82	2 ##	0.15	0.15	0.25	0.05	0.02	0.141	**	**	**	**
82183 2,4-DP (DICHLORPROP) TOTAL UG/L	09/15/82-09/15/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0010

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00										1	0	0.00
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00	1	0	0.00							1	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00										1	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00							1	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	0.2	2	0	0.00	1	0	0.00							1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00							1	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01007 BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00							1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	4.	0 &	0	0.00												
01027 CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	5.	2	0	0.00	1	0	0.00							1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00							1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	1300.	2	0	0.00	1	0	0.00							1	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	15.	2	0	0.00	1	0	0.00							1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	100.	2	0	0.00	1	0	0.00							1	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	100.	2	0	0.00	1	0	0.00							1	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	2	2	1.00	1	1	1.00							1	1	1.00
	Drinking Water	5000.	2	0	0.00	1	0	0.00							1	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
07000 TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00	1	0	0.00							1	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	2	0	0.00	1	0	0.00							1	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	0.2	2	0	0.00	1	0	0.00							1	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	2.	2	0	0.00	1	0	0.00							1	0	0.00
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	2	0	0.00	1	0	0.00							1	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	2	0	0.00	1	0	0.00							1	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	2	0	0.00	1	0	0.00							1	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	2	0	0.00	1	0	0.00							1	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	2	0	0.00	1	0	0.00							1	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	2.	2	0	0.00	1	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0010

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	3.	2	0	0.00	1	0	0.00						1	0	0.00
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.4	2	0	0.00	1	0	0.00						1	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00	1	0	0.00						1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	2	0	0.00	1	0	0.00						1	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	2	0	0.00	1	0	0.00						1	0	0.00
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	2	0	0.00	1	0	0.00						1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	2.	2	0	0.00	1	0	0.00						1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0011

NPS Station ID: SLBE0011	LAT/LON: 44.659420/ -85.943698	Agency: 11NPSWRD	Date Created: 11/30/96
Location: Platte River downstream of Fish Hatchery		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYPA/AMBNT/STREAM		STORET Station ID(s): SLBE_PR_02	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: PLATTE		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
This station is located on the Platte River Michigan 7.5 minute USGS topographic quadrangle and lies downstream of the State Fish Hatchery where US 31 crosses the Platte River. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH.(616)375-4611. This station is one of six river and four lake stations in the dataset. Data processed and uploaded to STORET by Jill Minter National Park Service Water Resources Division Fort Collins Colorado. PH.(970) 225-3514.			

Parameter Inventory for Station: SLBE0011

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-01/09/91	27	52.8	51.015	66.7	35.7	98.44	9.922	38.46	41.	61.1	63.32
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-01/09/91	51	80.	87.725	147.	65.	371.843	19.283	72.2	73.	92.	121.2
00300 OXYGEN, DISSOLVED MG/L	11/30/89-01/09/91	26	12.	11.965	14.9	9.3	1.378	1.174	10.34	11.15	12.825	13.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-01/09/91	143	0.017	0.018	0.048	0.006	0.	0.007	0.01	0.013	0.022	0.027

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0011

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	26	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
						10	0	0.00	5	0	0.00	2	0	0.00	9	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0012

NPS Station ID: SLBE0012 LAT/LON: 44.659448/ -86.017226

Location: PLATTE R AT ZIMMERMAN BR; HOMESTEAD TWP, SEC 16

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104020

RF3 Index: 04060104003100.00

Description:

PLATTE R12ER AT THE ZIMMERMAN ROAD BRIDGE SOUTH OF HONOR, BENZIE COUNTY, T26N, R14W, SECTION 16, HOMESTEAD TOWNSHIP

THIS STATION IS APPROXIMATELY FIVE MILES DOWNSTREAM FROM THE PLATTE HATCHERY.

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100060

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.11

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	36	11.	10.506	21.	0.5	38.249	6.185	1.73	4.125	15.875	19.
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	9.	8.75	15.	2.	28.917	5.377	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	2.266	7.	1.	1.287	1.134	1.	2.	2.6	3.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	1.45	1.525	2.5	0.7	0.683	0.826	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	305.	307.5	330.	300.	107.143	10.351	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	35	10.6	10.949	13.7	8.6	1.396	1.181	9.6	10.2	11.8	12.6
00310 BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	34	1.6	1.696	3.6	0.25	0.389	0.624	1.05	1.375	2.	2.5
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.257	8.6	7.9	0.031	0.175	8.	8.1	8.4	8.5
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.222	8.6	7.9	0.032	0.179	8.	8.1	8.4	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	35	0.006	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.008	0.01
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	35	6.	6.257	20.	0.	22.947	4.79	0.8	3.	9.	13.2
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	1.188	20.	0.	18.713	4.326	0.	0.	0.	4.25
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.045	0.042	0.1	0.	0.001	0.024	0.01	0.02	0.06	0.073
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.007	0.03	0.	0.	0.007	0.	0.	0.01	0.02
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6	0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.34	0.326	0.46	0.03	0.008	0.088	0.2	0.3	0.4	0.433
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	34	0.03	0.04	0.19	0.005	0.001	0.035	0.01	0.02	0.05	0.085
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	35	600.	1855.714	11000.	50.	7340995.798	2709.427	50.	100.	2800.	5800.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-01/08/75	35	2.778	2.761	4.041	1.699	0.558	0.747	1.699	2.	3.447	3.76
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			577.341								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	35 ##	5.	8.571	30.	5.	53.782	7.334	5.	5.	10.	24.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	35 ##	0.699	0.843	1.477	0.699	0.061	0.248	0.699	0.699	1.	1.371
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.967								
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	202.	202.	202.	202.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15	0.01	0.011	0.04	0.005	0.	0.009	0.005	0.005	0.01	0.028

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0012

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	35	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	11	0	0.00
00400	PH	9.	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
	Other-Lo Lim.	6.5	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	35	15	0.43	13	9	0.69	7	1	0.14	4	0	0.00	11	5	0.45
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	35	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	11	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0013

NPS Station ID: SLBE0013

Location: PLATTE R 300YD ABV SOUTH ST; HOMESTEAD TWP SEC17

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104020

RF3 Index: 04060104002004.60

Description:

PLATTE RIVER APPROXIMATELY 300 YARDS ABOVE ZIMMERMAN ROAD (SOUTH

LAT/LON: 44.661392/ -86.014448

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 3.270

RF3 Mile Point: 5.11

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100071

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.03

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0014

NPS Station ID: SLBE0014

Location: COLLISON CR AT US-31 BR; HOMESTEAD TWP, SEC 9

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104020

RF3 Index: 04060104038200.00

Description:

COLLISON CREEK AT US-31 BRIDGE; SECTION 9, HOMESTEAD TOWNSHIP, T26N

WATER QUALITY OF COLLISON CREEK PRIOR TO DISCHARGE TO THE PLATTE

LAT/LON: 44.661948/ -86.003337

0653

RF1 Mile Point: 3.610

RF3 Mile Point: 0.00

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100121

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.06

On/Off RF1: OFF

On/Off RF3:

R14W, BENZIE COUNTY, MICHIGAN.

RIVER IS DETERMINED AT THIS STATION.

Parameter Inventory for Station: SLBE0014

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/80-05/12/81	12	8.25	8.833	17.	2.	27.061	5.202	2.45	3.625	13.5	16.7
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/02/80-05/12/81	12	0.011	0.012	0.036	0.001	0.	0.011	0.002	0.004	0.015	0.034

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0015

NPS Station ID: SLBE0015 LAT/LON: 44.664170/ -85.933060

Location: BRUNDAGE CR AT COUNTY RD 669; INLAND TWP, SEC 7

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104003100.00

Description:

BRUNDAGE CREEK AT COUNTY ROAD NUMBER 669 BRIDGE, SECTION 7, INLAND

WATER QUALITY OF BRUNDAGE CREEK PRIOR TO DISCHARGE TO THE PLATTE

LAT/LON: 44.664170/ -85.933060

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 9.180

RF3 Mile Point: 0.25

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100120

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.10

Date Created: 08/30/80

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0015

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/80-05/12/81	12	7.75	8.542	16.	3.	16.157	4.02	3.45	5.25	11.5	15.55
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/02/80-05/12/81	12	0.01	0.009	0.017	0.002	0.	0.005	0.002	0.005	0.013	0.016

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0016

NPS Station ID: SLBE0016 LAT/LON: 44.665004/ -85.933337

Location: PLATTE R BELOW BRUNDAGE CREEK; INLAND TWP, SEC 7

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104002007.79

Description:

PLATTE RIVER ABOVE THE OLD WOODEN PLATTE HATCHERY WEIR, BUT BELOW THE CONFLUENCE WITH BRUNDAGE CREEK, BENZIE COUNTY, T26N, R13W, SECTION
INLAND TOWNSHIP THIS STATION IS ABOVE ALL HATCHERY DISCHARGES

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100052

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0016

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	35	12.	11.263	23.	0.	51.706	7.191	1.64	3.5	17.5	21.4
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	11.	9.75	15.	2.	36.25	6.021	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	28	2.	1.979	6.	1.	1.358	1.165	1.	1.	2.	4.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	2.05	1.775	2.2	0.8	0.429	0.655	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	287.5	288.75	310.	270.	176.786	13.296	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	34	10.5	10.376	13.5	7.3	2.289	1.513	8.6	9.2	11.45	12.65
00310 BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	31	1.2	1.327	2.8	0.2	0.425	0.652	0.42	0.9	1.8	2.24
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	34	8.2	8.197	8.5	7.7	0.036	0.19	7.9	8.1	8.3	8.5
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	34	8.2	8.153	8.5	7.7	0.038	0.195	7.9	8.1	8.3	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	34	0.006	0.007	0.02	0.003	0.	0.004	0.003	0.005	0.008	0.013
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	34	2.	3.912	15.	0.	14.613	3.823	0.5	1.	6.	9.
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	23	0.	0.022	0.5	0.	0.011	0.104	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	35	0.02	0.03	0.37	0.	0.004	0.062	0.	0.01	0.03	0.054
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	27	0.005	0.005	0.01	0.	0.	0.004	0.	0.	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	35	0.2	0.187	0.35	0.02	0.008	0.087	0.1	0.1	0.25	0.3
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	33	0.02	0.031	0.11	0.	0.001	0.027	0.005	0.01	0.045	0.08
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	35	300.	1787.143	12600.	50.	7558579.832	2749.287	50.	100.	3200.	5480.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-01/08/75	35	2.477	2.671	4.1	1.699	0.604	0.777	1.699	2.	3.505	3.739
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			469.1								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	35 ##	5.	6.571	40.	5.	36.429	6.036	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	35 ##	0.699	0.759	1.602	0.699	0.031	0.176	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.743								
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	185.	185.	185.	185.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15 ##	0.005	0.008	0.03	0.005	0.	0.006	0.005	0.005	0.01	0.018

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0016

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	28	0	0.00	10	0	0.00	5	0	0.00	4	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	34	0	0.00	13	0	0.00	6	0	0.00	4	0	0.00	11	0	0.00
00400	PH	9.	34	0	0.00	12	0	0.00	7	0	0.00	4	0	0.00	11	0	0.00
	Other-Lo Lim.	6.5	34	0	0.00	12	0	0.00	7	0	0.00	4	0	0.00	11	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	27	0	0.00	9	0	0.00	6	0	0.00	4	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	35	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	35	12	0.34	13	6	0.46	7	0	0.00	4	0	0.00	11	6	0.55
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	35	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	11	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0017

NPS Station ID: SLBE0017
 Location: PLATTE HATCH. BUILDING OUTLET; INLAND TWP, SEC 7
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:

LAT/LON: 44.665004/ -85.948616

Agency: 21MICH
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 100053
 Within Park Boundary: No

Date Created: / /

RMI-Miles:
 HUC: 04060104
 Major Basin: MAJ BASIN: LAKE MICHIGAN
 Minor Basin: MIN BASIN: PLATTE RIVER
 RF1 Index: 04060104020
 RF3 Index: 04060104038200.00

Depth of Water: 0
 Elevation: 0

0655
 RF1 Mile Point: 8.890
 RF3 Mile Point: 0.00

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1: OFF
 On/Off RF3:

Description:
 OUTLET FROM THE PLATTE HATCHERY BUILDING FACILITY TAKEN BELOW THE
 THIS STATION IS WATER FROM THE HATCHERY HEADBOX AND SOME HATCHERY

PUMP STATION, BENZIE COUNTY, T26N, R13W, SECTION 7, INLAND TOWNSHIP
 BUILDING EFFLUENT

Parameter Inventory for Station: SLBE0017

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	34	10.5	10.679	20.	0.6	33.255	5.767	2.5	6.5	16.125	18.75
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	11.	9.75	15.	2.	36.25	6.021	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	26	2.	2.212	4.	1.	0.823	0.907	1.	1.875	3.	4.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	1.7	1.6	2.1	0.9	0.313	0.56	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	292.5	292.5	305.	280.	85.714	9.258	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	33	10.	10.212	13.4	8.1	1.802	1.343	8.68	9.15	11.1	12.38
00310 BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	31	2.	2.448	8.1	0.3	2.35	1.533	1.2	1.5	2.9	4.08
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	34	8.15	8.135	8.5	7.6	0.04	0.2	7.9	8.	8.225	8.4
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	34	8.147	8.088	8.5	7.6	0.042	0.205	7.9	8.	8.225	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	34	0.007	0.008	0.025	0.003	0.	0.004	0.004	0.006	0.01	0.013
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	32	4.	5.016	21.	0.	19.911	4.462	1.	2.	8.	9.
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	21	0.	1.024	21.	0.	20.962	4.578	0.	0.	0.	0.4
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	33	0.05	0.07	0.18	0.	0.002	0.045	0.03	0.04	0.1	0.146
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	25	0.005	0.006	0.01	0.	0.	0.004	0.	0.	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	33	0.24	0.222	0.4	0.02	0.008	0.092	0.1	0.165	0.285	0.33
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	31	0.04	0.048	0.16	0.01	0.001	0.034	0.02	0.02	0.06	0.1
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	33	1100.	11025.758	91000.	50.	599098612.689	24476.491	70.	250.	3800.	52400.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-01/08/75	33	3.041	3.116	4.959	1.699	0.877	0.937	1.819	2.389	3.578	4.719
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-09/03/74	32 ##	5.	15.156	120.	5.	644.33	25.384	5.	5.	8.75	47.5
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-09/03/74	32 ##	0.699	0.904	2.079	0.699	0.164	0.405	0.699	0.699	0.925	1.661
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-09/03/74	32 ##	0.699	0.904	2.079	0.699	0.164	0.405	0.699	0.699	0.925	1.661
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-09/03/74	32 ##	0.699	0.904	2.079	0.699	0.164	0.405	0.699	0.699	0.925	1.661
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	192.	192.	192.	192.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15	0.01	0.016	0.09	0.005	0.	0.021	0.005	0.005	0.02	0.048

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0017

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	26	0	0.00	10	0	0.00	5	0	0.00	2	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	33	0	0.00	13	0	0.00	6	0	0.00	3	0	0.00	11	0	0.00
00400	PH	9.	34	0	0.00	12	0	0.00	8	0	0.00	2	0	0.00	12	0	0.00
	Other-Lo Lim.	6.5	34	0	0.00	12	0	0.00	8	0	0.00	2	0	0.00	12	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	25	0	0.00	9	0	0.00	6	0	0.00	2	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	33	0	0.00	13	0	0.00	7	0	0.00	2	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	33	19	0.58	13	10	0.77	7	1	0.14	3	3	1.00	10	5	0.50
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	32	0	0.00	13	0	0.00	6	0	0.00	3	0	0.00	10	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0018

NPS Station ID: SLBE0018 LAT/LON: 44.665004/ -85.950005

Location: PLATTE R BELOW HATCHERY WEIR; INLAND TWP. SEC. 7

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104002004.60

Description:

PLATTE RIVER BELOW THE NORTHERN MOST OUTFALL OF THE PLATTE HATCHERY POLLUTION CONTROL FACILITY AND JUST BELOW THE HATCHERY WEIR, BENZIE
COUNTY, T26N, R13W, SECTION 7, INLAND TOWNSHIP

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100054

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.42

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0018

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-01/08/75	36	10.25	10.378	19.	0.5	38.523	6.207	1.73	4.125	17.125	18.15
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	11.	9.75	15.	2.	36.25	6.021	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	1.821	3.	1.	0.432	0.658	1.	1.	2.	3.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	1.65	1.5	2.	0.7	0.327	0.572	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	290.	293.125	310.	285.	63.839	7.99	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	35	10.6	10.591	14.1	7.9	2.413	1.553	8.32	9.4	11.6	12.58
00310 BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	33	2.	1.986	3.6	0.25	0.472	0.687	1.1	1.65	2.35	3.04
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.151	8.5	7.7	0.031	0.177	7.9	8.	8.2	8.4
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.2	8.115	8.5	7.7	0.033	0.181	7.9	8.	8.2	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	35	0.006	0.008	0.02	0.003	0.	0.003	0.004	0.006	0.01	0.013
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	35	4.	4.371	12.	0.	10.637	3.262	0.8	2.	7.	9.4
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.08	0.078	0.18	0.	0.002	0.043	0.027	0.05	0.1	0.139
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.005	0.01	0.	0.	0.004	0.	0.	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6	0.01	0.01	0.02	0.005	0.	0.005	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.205	0.224	0.35	0.03	0.007	0.084	0.1	0.173	0.3	0.343
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-01/08/75	34	0.03	0.043	0.13	0.01	0.001	0.028	0.01	0.03	0.053	0.08
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	36	450.	2422.222	33000.	50.	31833920.635	5642.156	50.	100.	2325.	6330.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-01/08/75	36	2.651	2.76	4.519	1.699	0.597	0.773	1.699	2.	3.362	3.8
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			575.942								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	36 ##	5.	5.972	10.	5.	4.028	2.007	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	36 ##	0.699	0.758	1.	0.699	0.015	0.121	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.721								
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	195.	195.	195.	195.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15	0.01	0.014	0.03	0.005	0.	0.007	0.005	0.01	0.02	0.024

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0018

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	35	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	11	0	0.00
00400	PH	9.	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
	Other-Lo Lim.	6.5	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	36	16	0.44	13	8	0.62	7	1	0.14	5	0	0.00	11	7	0.64
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0019

NPS Station ID: SLBE0019

Location: PLATTE R BELOW LAST HATCH OUTFAL;INLAND TWP SEC7

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104020

RF3 Index: 04060104002007.79

Description:

PLATTE RIVER APPROXIMATELY 200 YARDS BELOW THE PLATTE HATCHERY AND SECTION 7, INLAND TOWNSHIP.

LAT/LON: 44.666115/ -85.936115

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 9.040

RF3 Mile Point: 9.15

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100069

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0019

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0020

NPS Station ID: SLBE0020

Location: Platte River upstream of Fish Hatchery

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: LAKE MICHIGAN

Minor Basin: PLATTE

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

This station is located on the Platte River Michigan 7.5 minute Fish Hatchery in the Platte River at a driveway crossing. Data Improvement Association v Michigan Department of Natural Resources the data may be answered by Joseph T. Fuss-Court Master (Aquatic Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery station is one of six river and four lake stations in the dataset. Data Service Water Resources Division Fort Collins Colorado PH.(970)

LAT/LON: 44.666226/ -85.932670

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

USGS topographic quadrangle and lies just upstream of the State were gathered in conjunction with the case: Platte Lake -Ingham County Court Case No. 86-57122-CE. Questions regarding Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Manager-Platte River State Fish Hatchery PH.(616)375-4611. This Data processed and uploaded to STORET by Jill Minter National Park 225-3514.

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_PR_01

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

On/Off RF1:

On/Off RF3:

Date Created: 11/30/96

Parameter Inventory for Station: SLBE0020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-04/04/90	7	38.8	39.271	43.8	34.1	9.186	3.031	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-04/04/90	7	53.	54.	65.	48.	38.333	6.191	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	11/30/89-03/21/90	6	12.1	12.183	12.7	11.6	0.17	0.412	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-04/04/90	20	0.011	0.012	0.021	0.006	0.	0.005	0.007	0.008	0.017	0.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0020

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----	-----12/01-2/29-----	-----3/01-4/14-----	-----4/15-7/31-----
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	Obs 1 Exceed 0 Prop. 0.00	Obs 3 Exceed 0 Prop. 0.00	Obs 2 Exceed 0 Prop. 0.00	Obs Exceed Prop.

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0021

NPS Station ID: SLBE0021 Location: Platte River at USGS Gaging Station Station Type: /TYP/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: LAKE MICHIGAN Minor Basin: PLATTE RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: This station is located on the Beulah Michigan 7.5 minute USGS the Platte River at the USGS gage site. This station was gathered in conjunction with the case: Platte Lake Improvement County Court Case No. 86-57122-CE. Questions regarding the Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President Manager-Platte River State Fish Hatchery PH.(616)375-4611. the dataset. Data processed and uploaded to STORET by Jill	LAT/LON: 44.667837/ -86.034781 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26019 MICHIGAN/BENZIE STORET Station ID(s): SLBE_PR_04 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76
		Date Created: 11/30/96 On/Off RF1: On/Off RF3:

This station is located on the Beulah Michigan 7.5 minute USGS the Platte River at the USGS gage site. This station was gathered in conjunction with the case: Platte Lake Improvement County Court Case No. 86-57122-CE. Questions regarding the Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President Manager-Platte River State Fish Hatchery PH.(616)375-4611. the dataset. Data processed and uploaded to STORET by Jill

topographic quadrangle and lies west of Honor where US 31 crosses relocated from station SLBE-PR-03 on 04/04/90. Data were Association v Michigan Department of Natural Resources-Ingham data may be answered by Joseph T. Fuss-Court Master (Aquatic -Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery This station is one of six river and four lake stations in Minter NPS WRD Fort Collins Colorado. PH.(970)225-3514.

Parameter Inventory for Station: SLBE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	125	49.	50.275	66.	33.	86.866	9.32	37.96	42.	59.3	62.4
00300	OXYGEN, DISSOLVED MG/L	04/18/90-09/01/92	57	11.8	11.849	15.2	8.7	1.572	1.254	10.2	11.	12.6	13.64
00400	PH (STANDARD UNITS)	03/19/96-10/01/96	21	8.	7.96	8.26	7.1	0.055	0.234	7.772	7.9	8.06	8.212
00400	CONVERTED PH (STANDARD UNITS)	03/19/96-10/01/96	21	8.	7.865	8.26	7.1	0.064	0.253	7.772	7.9	8.06	8.212
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/96-10/01/96	21	0.01	0.014	0.079	0.005	0.	0.015	0.006	0.009	0.013	0.017
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	452	0.015	0.016	0.108	0.005	0.	0.011	0.009	0.011	0.018	0.022
00937	POTASSIUM, TOTAL MG/L AS K)	11/24/92-03/09/93	8	1.44	1.443	1.56	1.26	0.011	0.106	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0021

				Total	Exceed	Prop.	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	57	0	0.00	19	0	0.00	9	0	0.00	7	0	0.00	22	0	0.00
00400	PH	Other-Hi Lim.	9.	21	0	0.00	5	0	0.00				1	0	0.00	15	0	0.00
		Other-Lo Lim.	6.5	21	0	0.00	5	0	0.00				1	0	0.00	15	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	20	55.95	54.265	65.7	38.5	59.78	7.732	42.9	48.125	59.975	63.17
00665p PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	122	0.015	0.021	0.108	0.006	0.	0.017	0.01	0.012	0.02	0.042

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	24	47.2	50.737	64.1	33.6	101.82	10.091	37.2	41.85	61.7	63.1
00665p PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	75	0.017	0.017	0.04	0.005	0.	0.006	0.01	0.013	0.02	0.023

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	26	43.5	47.438	62.8	34.	78.928	8.884	37.97	40.675	57.775	61.
00665p PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	87	0.012	0.013	0.024	0.005	0.	0.004	0.007	0.009	0.017	0.019

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	24	48.	49.	66.	33.	102.348	10.117	35.5	42.	58.	64.
00665p PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	72	0.013	0.013	0.033	0.006	0.	0.005	0.008	0.009	0.017	0.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	9	40.	41.278	49.	34.	32.694	5.718	34.	36.5	48.	49.
00665p PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	30	0.015	0.014	0.021	0.006	0.	0.003	0.007	0.012	0.016	0.018

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

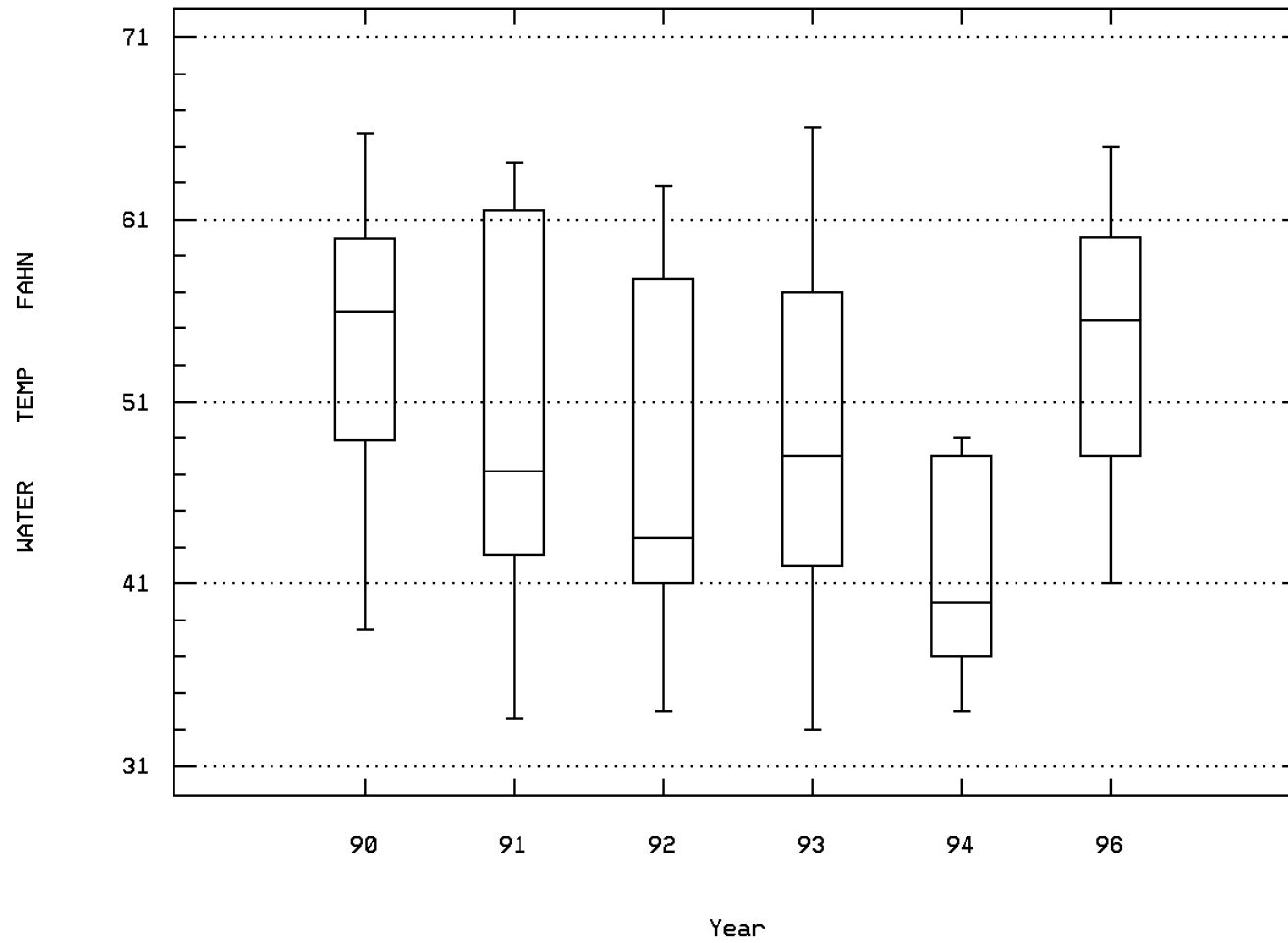
Annual Analysis for 1996 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	22	55.5	54.568	65.	41.	47.578	6.898	43.	48.	60.	62.4
00665p PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	66	0.015	0.015	0.047	0.007	0.	0.007	0.008	0.011	0.016	0.022

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0021 Parameter Code: 00011

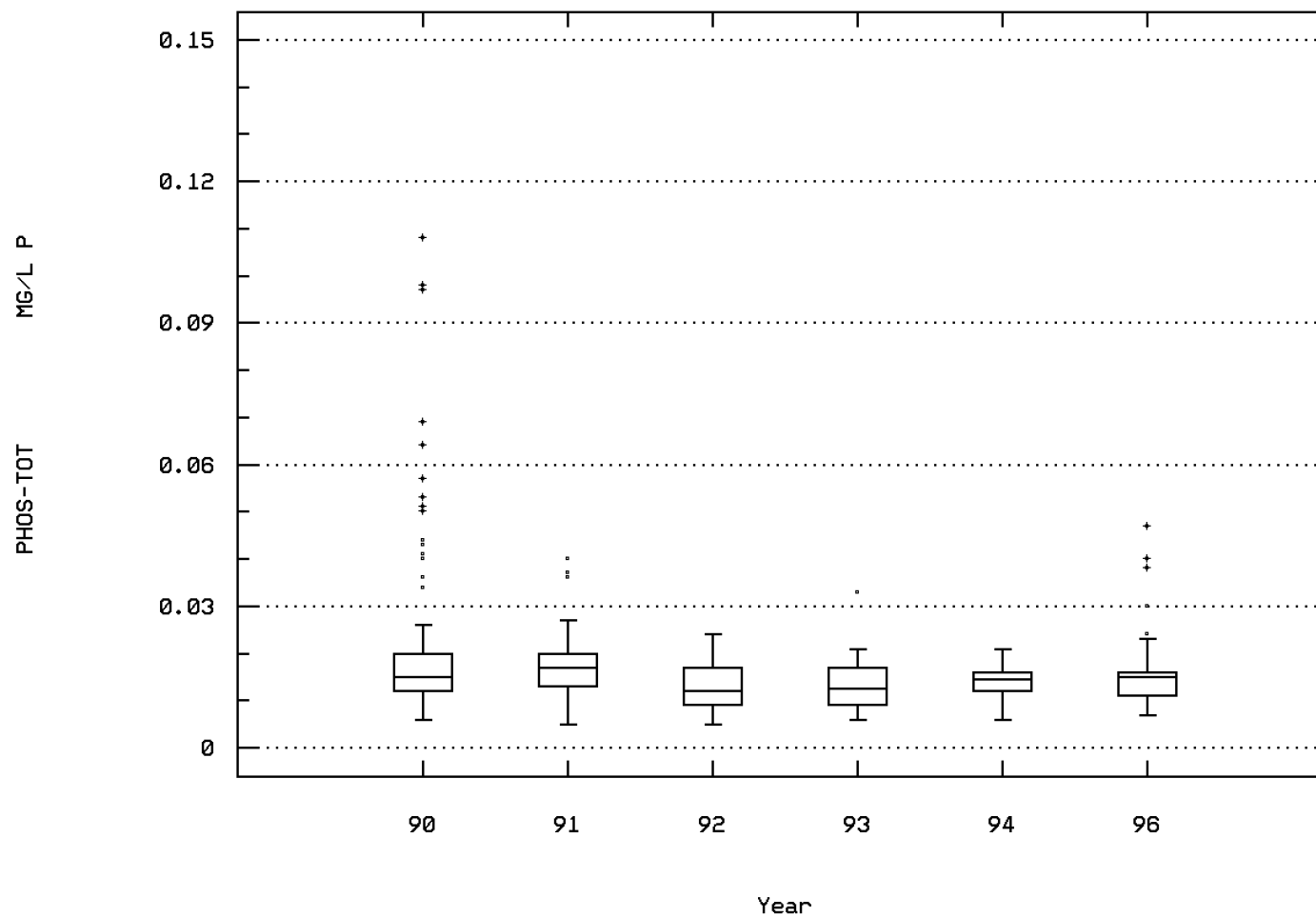
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



Platte River at USGS Gaging Station

Station: SLBE0021 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



Platte River at USGS Gaging Station

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	40	52.8	52.76	66.	40.	64.445	8.028	42.1	44.925	59.75	62.98
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	136	0.01	0.012	0.108	0.005	0.	0.011	0.007	0.008	0.012	0.016

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	21	37.9	37.976	46.7	33.	12.059	3.473	33.68	35.5	40.35	42.8
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	69	0.016	0.015	0.025	0.006	0.	0.004	0.01	0.012	0.018	0.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	14	42.	42.536	50.5	37.7	13.359	3.655	37.85	39.75	44.775	48.8
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	42	0.016	0.018	0.037	0.011	0.	0.005	0.013	0.015	0.019	0.024

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/04/90-10/01/96	50	59.	55.62	64.1	42.8	43.933	6.628	45.92	49.75	61.025	63.1
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/04/90-10/01/96	205	0.016	0.019	0.098	0.009	0.	0.012	0.012	0.014	0.02	0.026

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0022

NPS Station ID: SLBE0022 LAT/LON: 44.668615/ -86.186115

Location: CRYSTAL LAKE-CENTRAL BASIN; LAKE TWP. SEC. 12

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: BETSIE RIVER 0651

RF1 Index: 04060104

RF3 Index: 04060104001602.02

Description:

CRYSTAL LAKE IN BENZIE COUNTY. 160 FEET DEEP BASIN LOCATED APPROX. 3 MILES E OF W END OF LAKE MIDWAY BETWEEN N & S SHORES. BASIN DEPTH 160 FT

INLETS-COLD CREEK AT EAST END & CREEK FROM ROUND LAKE ON NORTH SIDE. OUTLET TO BETSIE RIVER ON S SIDE. BETSIE RIVER BASIN.

TOWN OF BEULAH ADJOINS EAST END OF LAKE. ACCESS AT COUNTY PARK IN BEULAH

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100066 /AC09711.0

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.04

Date Created: / /

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/67-08/25/87	37	7.5	8.797	20.9	1.	51.167	7.153	1.	1.25	14.5	20.9
00024 SAMPLE LENGTH IN INCHES	08/16/72-08/16/72	4	7.875	7.688	9.	6.	1.641	1.281	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/74-04/19/77	6	1.05	1.017	1.2	0.8	0.042	0.204	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	09/15/74-08/25/87	3	240.	246.	258.	240.	108.	10.392	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	03/21/73-04/19/77	7 ##	2.5	2.714	5.	0.5	5.071	2.252	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/25/87-08/25/87	7	319.	328.857	354.	313.	277.143	16.648	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/73-04/19/77	16	315.	318.75	345.	310.	68.333	8.266	313.5	315.	323.75	331.
00300 OXYGEN, DISSOLVED MG/L	03/21/73-08/25/87	34	11.3	10.844	14.	3.8	5.614	2.369	8.4	9.45	12.5	13.2
00400 PH (STANDARD UNITS)	04/12/67-08/25/87	39	8.3	8.386	9.	7.85	0.07	0.265	8.05	8.2	8.6	8.8
00400 CONVERTED PH (STANDARD UNITS)	04/12/67-08/25/87	39	8.3	8.315	9.	7.85	0.075	0.275	8.05	8.2	8.6	8.8
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/25/87	39	0.005	0.005	0.014	0.001	0.	0.003	0.002	0.003	0.006	0.009
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	03/21/73-04/20/87	8	117.5	117.625	125.	111.	25.696	5.069	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	09/15/74-04/19/77	6	216.5	212.333	221.	198.	78.267	8.847	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-04/19/77	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/21/73-08/25/87	13	0.15	0.168	0.267	0.1	0.003	0.053	0.102	0.125	0.215	0.255
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/21/73-08/25/87	13 ##	0.005	0.006	0.01	0.002	0.	0.004	0.002	0.002	0.01	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/67-04/12/67	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/20/87-08/25/87	6	0.17	0.185	0.27	0.11	0.004	0.061	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/21/73-08/25/87	13	0.06	0.051	0.14	0.001	0.002	0.039	0.001	0.01	0.06	0.12
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/12/67-08/25/87	13	0.005	0.009	0.05	0.001	0.	0.013	0.001	0.003	0.009	0.038
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/12/67-04/19/77	7	168.	167.857	175.	157.	34.143	5.843	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	04/19/77-04/19/77	3	44.	43.667	45.	42.	2.333	1.528	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	09/15/74-04/20/87	4	37.8	38.4	41.	37.	3.173	1.781	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	04/19/77-04/19/77	3	16.1	16.133	16.3	16.	0.023	0.153	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/15/74-04/20/87	4	17.	16.7	17.	15.8	0.36	0.6	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	09/15/74-04/20/87	4	5.95	5.9	6.1	5.6	0.047	0.216	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	04/19/77-04/19/77	3	6.2	6.233	6.4	6.1	0.023	0.153	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	04/19/77-04/19/77	3	1.	1.013	1.06	0.98	0.002	0.042	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	09/15/74-04/20/87	4	0.79	0.77	0.8	0.7	0.002	0.047	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	03/21/73-04/20/87	8	7.	7.25	8.	6.	0.5	0.707	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/20/87-04/20/87	1	48.	48.	48.	48.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/15/74-04/19/77	6	54.	52.833	55.	48.	8.167	2.858	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/15/74-04/19/77	6	1.9	2.228	4.	1.68	0.805	0.897	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/74-04/19/77	6##	23.5	23.	25.	20.	5.2	2.28	**	**	**	**
34690	PCB - 1254 WET WGT TISM/G/KG	08/16/72-08/16/72	4##	0.005	0.044	0.16	0.005	0.006	0.078	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	08/16/72-08/16/72	4	0.6	0.95	2.5	0.1	1.23	1.109	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	4##	0.005	0.038	0.14	0.001	0.005	0.068	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	4##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	4##	0.015	0.04	0.13	0.001	0.004	0.061	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/16/72-08/16/72	4	0.049	0.059	0.13	0.007	0.004	0.061	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/16/72-08/16/72	4##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/74-04/19/77	6	216.5	212.333	221.	198.	78.267	8.847	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/67-04/19/77	8	0.003	0.004	0.01	0.	0.	0.004	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0022

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00	3	0	0.00						3	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	34	1	0.03	19	1	0.05			10	0	0.00	5	0	0.00
00400	PH	Other-Hi Lim.	9.	39	2	0.05	22	2	0.09			11	0	0.00	6	0	0.00
		Other-Lo Lim.	6.5	39	0	0.00	22	0	0.00			11	0	0.00	6	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00						1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	6	0	0.00			1	0	0.00	6	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	3	0	0.00			1	0	0.00	4	0	0.00
		Drinking Water	250.	8	0	0.00	3	0	0.00			1	0	0.00	4	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00									1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00						3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/67-08/25/87	21	12.	13.776	20.9	7.	28.982	5.383	7.5	9.05	19.	20.9
00300	OXYGEN, DISSOLVED MG/L	03/21/73-08/25/87	19	9.9	9.332	12.2	3.8	4.555	2.134	4.4	8.8	10.8	11.6
00400p	PH (STANDARD UNITS)	04/12/67-08/25/87	22	8.475	8.452	9.	7.85	0.109	0.33	7.965	8.188	8.625	8.97
00400p	CONVERTED PH (STANDARD UNITS)	04/12/67-08/25/87	22	8.474	8.335	9.	7.85	0.123	0.351	7.965	8.188	8.625	8.97
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/25/87	22	0.003	0.005	0.014	0.001	0.	0.004	0.001	0.002	0.007	0.011

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/67-08/25/87	11	1.	1.682	8.	1.	4.414	2.101	1.	1.	1.	6.7
00300	OXYGEN, DISSOLVED MG/L	03/21/73-08/25/87	10	12.45	12.4	12.6	12.1	0.029	0.17	12.1	12.325	12.5	12.59
00400p	PH (STANDARD UNITS)	04/12/67-08/25/87	11	8.3	8.318	8.5	8.1	0.012	0.108	8.14	8.3	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	04/12/67-08/25/87	11	8.3	8.306	8.5	8.1	0.012	0.109	8.14	8.3	8.3	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/25/87	11	0.005	0.005	0.008	0.003	0.	0.001	0.003	0.005	0.005	0.007

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0022

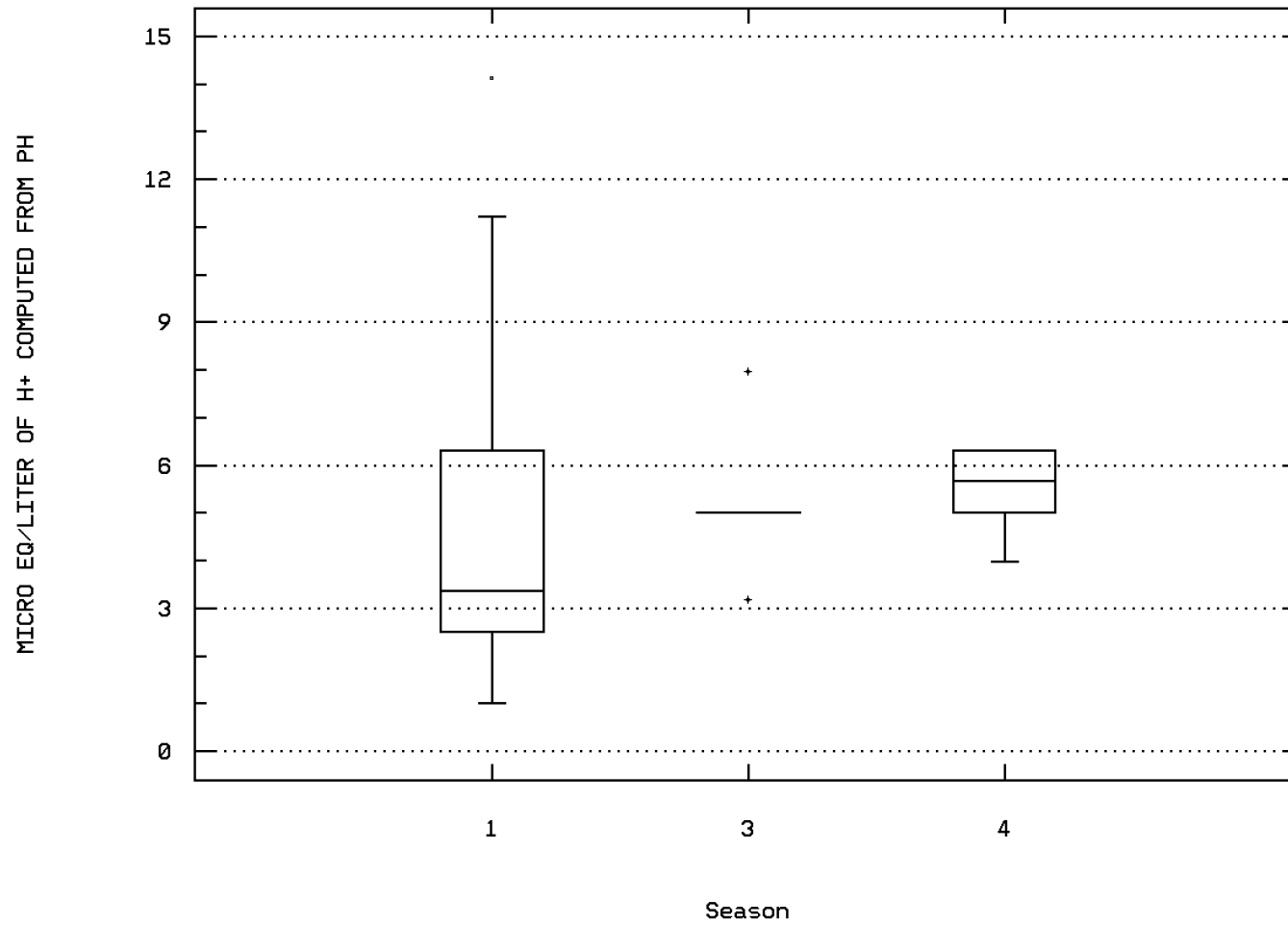
Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/67-08/25/87	5	3.1	3.54	4.5	2.8	0.633	0.796	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/73-08/25/87	5	13.2	13.48	14.	13.2	0.152	0.39	**	**	**	**
00400p	PH (STANDARD UNITS)	04/12/67-08/25/87	6	8.25	8.267	8.4	8.2	0.007	0.082	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	04/12/67-08/25/87	6	8.247	8.261	8.4	8.2	0.007	0.082	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/25/87	6	0.006	0.005	0.006	0.004	0.	0.001	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0022 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH

(X 0.001)



CRYSTAL LAKE-CENTRAL BASIN; LAKE TWP. S

Station Inventory for Station: SLBE0023

NPS Station ID: SLBE0023 LAT/LON: 44.670004/ -86.038892
 Location: PLATTE R AT INDIAN HILL RD; HOMESTEAD TWP. SEC 8
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104 Depth of Water: 0
 Major Basin: MAJ BASIN: LAKE MICHIGAN Elevation: 0
 Minor Basin: MIN BASIN: PLATTE RIVER 0653
 RF1 Index: 04060104020 RF1 Mile Point: 1.320
 RF3 Index: 04060104002000.29 RF3 Mile Point: 3.81
 Description:
 PLATTE RIVER AT THE INDIAN HILL ROAD WEST OF HONOR, BENZIE COUNTY,
 THIS STATION IS APPROXIMATELY SIX AND ONE-HALF MILES DOWNSTREAM

Agency: 21MICH
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 100061
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.08

On/Off RF1: OFF
 On/Off RF3:

T26N, R14W, SECTION 8, HOMESTEAD TOWNSHIP
 FROM THE PLATTE HATCHERY.

Parameter Inventory for Station: SLBE0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	69	11.5	10.829	21.5	0.	38.293	6.188	2.	5.	16.	19.5
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	12.	10.25	15.	2.	34.917	5.909	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	2.303	7.	1.	1.577	1.256	1.	1.75	2.65	4.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	30	1.	1.103	2.7	0.5	0.298	0.546	0.5	0.7	1.325	1.78
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	34	317.5	317.059	340.	295.	100.178	10.009	300.	313.75	325.	327.5
00300p OXYGEN, DISSOLVED MG/L	07/22/68-05/12/81	68	10.95	11.049	13.8	8.2	1.732	1.316	9.2	10.125	12.	13.1
00310p BOD, 5 DAY, 20 DEG C MG/L	07/22/68-05/12/81	60	1.45	1.542	3.6	0.25	0.387	0.622	0.8	1.2	1.8	2.3
00400p PH (STANDARD UNITS)	07/22/68-05/12/81	61	8.2	8.251	8.6	7.9	0.038	0.195	8.	8.1	8.4	8.5
00400p CONVERTED PH (STANDARD UNITS)	07/22/68-05/12/81	61	8.2	8.209	8.6	7.9	0.04	0.2	8.	8.1	8.4	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/68-05/12/81	61	0.006	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/22/68-05/12/81	3	159.	161.	172.	152.	103.	10.149	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	07/22/68-05/12/81	26	212.5	214.769	239.	205.	69.625	8.344	208.	209.	216.25	230.9
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	61	6.	6.451	28.	0.	29.673	5.447	1.	2.5	9.	12.8
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	1.188	21.	0.	19.844	4.455	0.	0.	0.	3.75
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	27	0.29	0.3	0.51	0.16	0.007	0.083	0.176	0.25	0.33	0.43
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-05/12/81	62	0.04	0.04	0.1	0.	0.001	0.023	0.01	0.025	0.055	0.061
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.01	0.008	0.03	0.	0.	0.007	0.	0.001	0.01	0.02
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6	0.01	0.009	0.01	0.005	0.	0.002	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/22/68-01/08/75	36	0.35	0.338	0.47	0.03	0.009	0.092	0.2	0.3	0.4	0.45
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/79-05/12/81	18	0.33	0.342	0.56	0.2	0.009	0.095	0.209	0.278	0.395	0.488
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/17/79-05/12/81	26	0.355	0.344	0.42	0.24	0.003	0.053	0.284	0.298	0.4	0.403
00665p PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-05/12/81	60	0.023	0.03	0.19	0.005	0.001	0.025	0.014	0.02	0.03	0.049
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	09/04/79-09/02/80	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/22/68-09/02/80	2	172.5	172.5	175.	170.	12.5	3.536	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/22/68-05/12/81	26	4.	4.077	5.	3.	0.154	0.392	4.	4.	4.	5.
00945 SULFATE, TOTAL (MG/L AS SO4)	09/02/80-05/12/81	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	07/22/68-09/04/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	09/04/79-09/02/80	2	0.205	0.205	0.21	0.2	0.	0.007	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	04/17/79-05/12/81	26	3.4	3.362	3.9	2.7	0.086	0.294	3.	3.1	3.6	3.8
01002 ARSENIC, TOTAL (UG/L AS AS)	09/04/79-09/02/80	2 ##	0.55	0.55	1.	0.1	0.405	0.636	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	09/04/79-09/02/80	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	09/04/79-09/02/80	2 ##	1.75	1.75	2.5	1.	1.125	1.061	**	**	**	**

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Parameter Inventory for Station: SLBE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	09/04/79-09/02/80	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/22/68-09/02/80	2	52.5	52.5	55.	50.	12.5	3.536	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/04/79-09/02/80	2 ##	4.75	4.75	7.	2.5	10.125	3.182	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/04/79-09/02/80	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/04/79-09/02/80	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/04/79-09/02/80	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/04/79-09/02/80	2 ##	1.75	1.75	2.5	1.	1.125	1.061	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	09/04/79-09/02/80	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/04/79-09/04/79	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	09/04/79-09/02/80	2 ##	37.5	37.5	50.	25.	312.5	17.678	**	**	**	**
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	40	700.	1607.5	10800.	50.	5087506.41	2255.55	50.	200.	2275.	4260.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/22/68-08/14/79	40	2.841	2.8	4.033	1.699	0.45	0.671	1.699	2.301	3.357	3.629
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			631.389								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	63	8.	22.794	140.	1.	942.747	30.704	4.4	5.	28.	70.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	63	0.903	1.04	2.146	0.	0.277	0.526	0.641	0.699	1.447	1.849
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.958								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/17/79-05/12/81	24	1.4	1.588	4.	0.1	1.319	1.149	0.25	0.65	2.325	3.65
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/04/79-09/02/80	2 ##	0.625	0.625	1.	0.25	0.281	0.53	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23 ##	0.001	0.003	0.017	0.001	0.	0.004	0.001	0.001	0.004	0.008
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23	0.001	0.015	0.114	0.001	0.001	0.027	0.001	0.001	0.022	0.045
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	20 ##	0.001	0.	0.001	0.	0.	0.	0.	0.	0.001	0.001
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	20 ##	0.005	0.009	0.03	0.001	0.	0.007	0.005	0.005	0.013	0.019
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	27	208.	207.481	221.	195.	27.952	5.287	201.2	205.	211.	212.4
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-05/12/81	41	0.005	0.006	0.02	0.001	0.	0.004	0.002	0.003	0.01	0.01
71900	MERCURY, TOTAL (UG/L AS HG)	09/04/79-09/02/80	2 ##	0.375	0.375	0.5	0.25	0.031	0.177	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	30	0	0.00	10	0	0.00	7	0	0.00	4	0	0.00	9	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	68	0	0.00	21	0	0.00	12	0	0.00	9	0	0.00	26	0	0.00
00400	PH	Other-Hi Lim.	9.	61	0	0.00	20	0	0.00	13	0	0.00	9	0	0.00	19	0	0.00
		Other-Lo Lim.	6.5	61	0	0.00	20	0	0.00	13	0	0.00	9	0	0.00	19	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	26	0	0.00	8	0	0.00	6	0	0.00	4	0	0.00	8	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	2	0	0.00									
		Drinking Water	0.2	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	26	0	0.00	8	0	0.00	6	0	0.00	4	0	0.00	8	0	0.00
		Drinking Water	250.	26	0	0.00	8	0	0.00	6	0	0.00	4	0	0.00	8	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

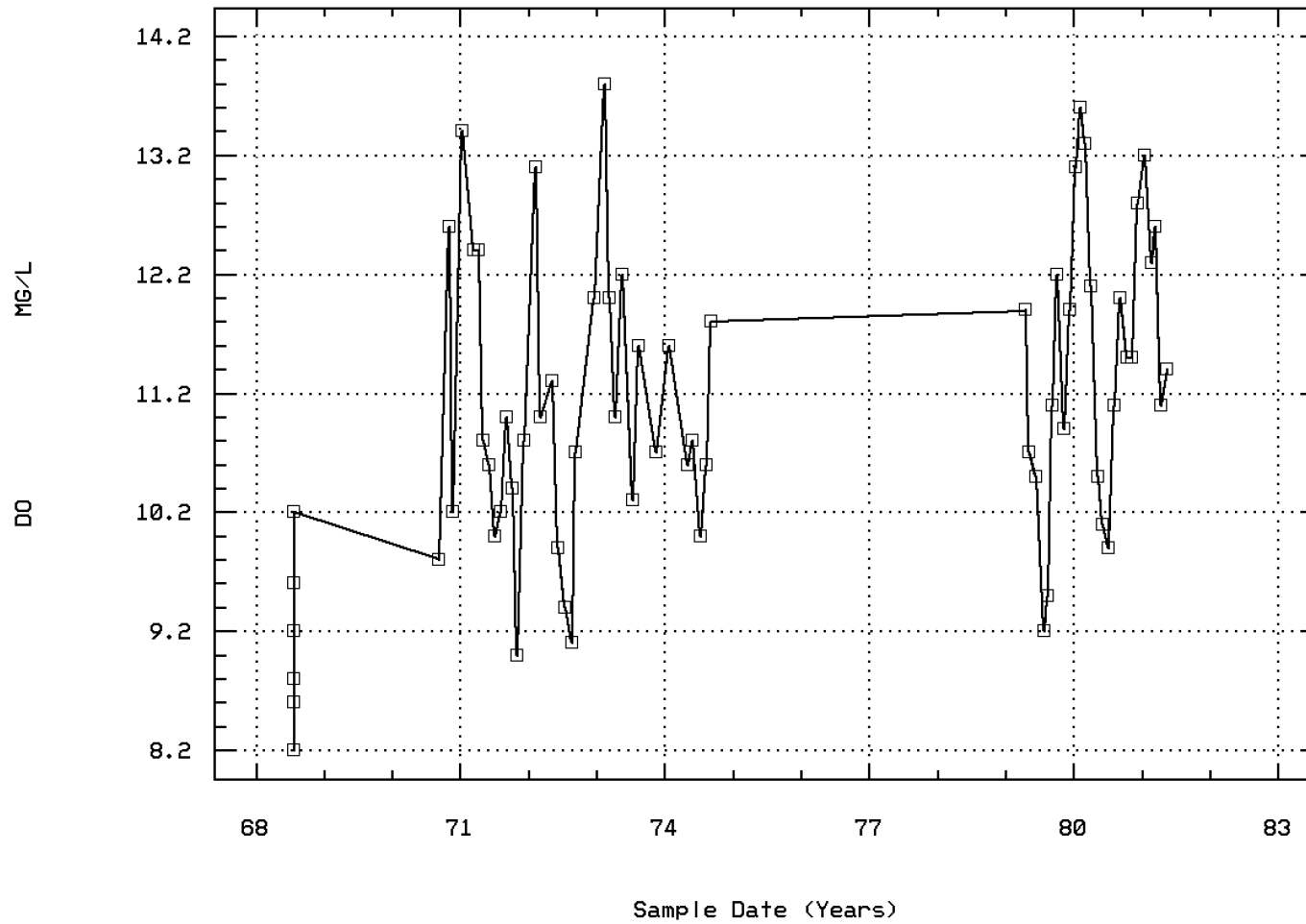
EPA Water Quality Criteria Analysis for Station: SLBE0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	40	17	0.43	14	9	0.64	7	1	0.14	4	0	0.00	15	7	0.47
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	63	0	0.00	21	0	0.00	13	0	0.00	8	0	0.00	21	0	0.00
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	20	0	0.00	9	0	0.00	4	0	0.00	3	0	0.00	4	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0023 Parameter Code: 00300

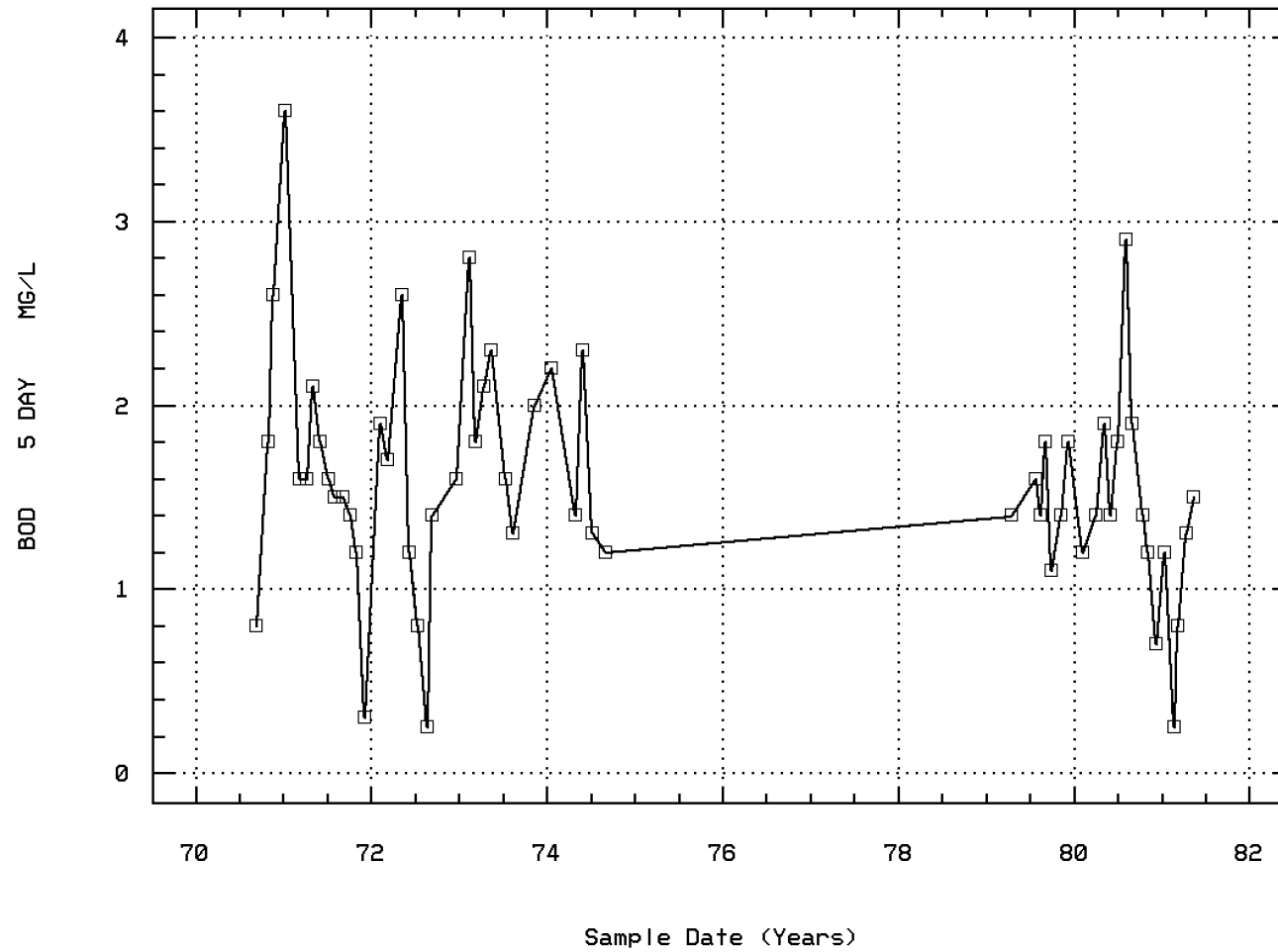
OXYGEN, DISSOLVED



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00310

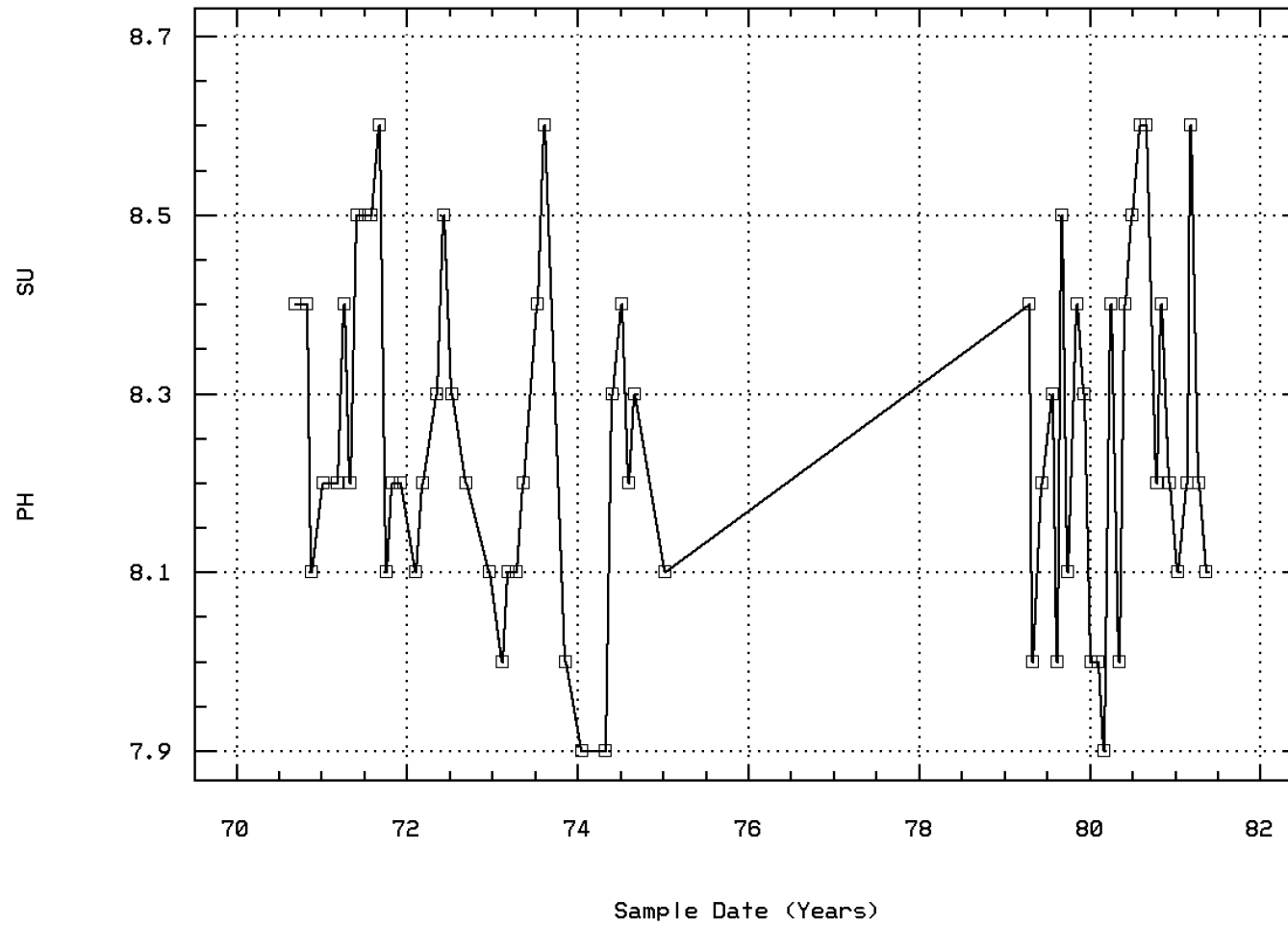
BOD, 5 DAY, 20 DEG C



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00400

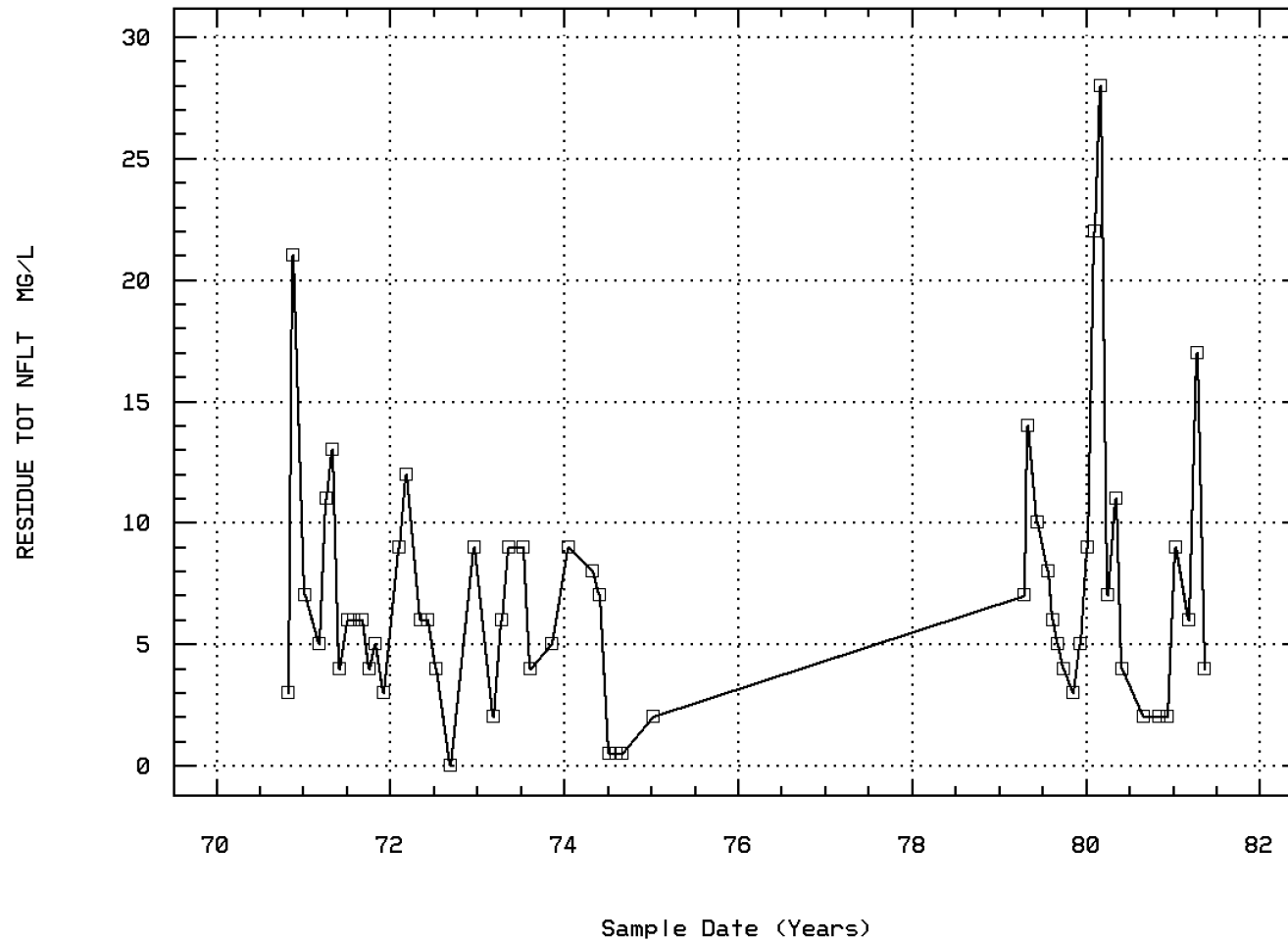
PH (STANDARD UNITS)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00530

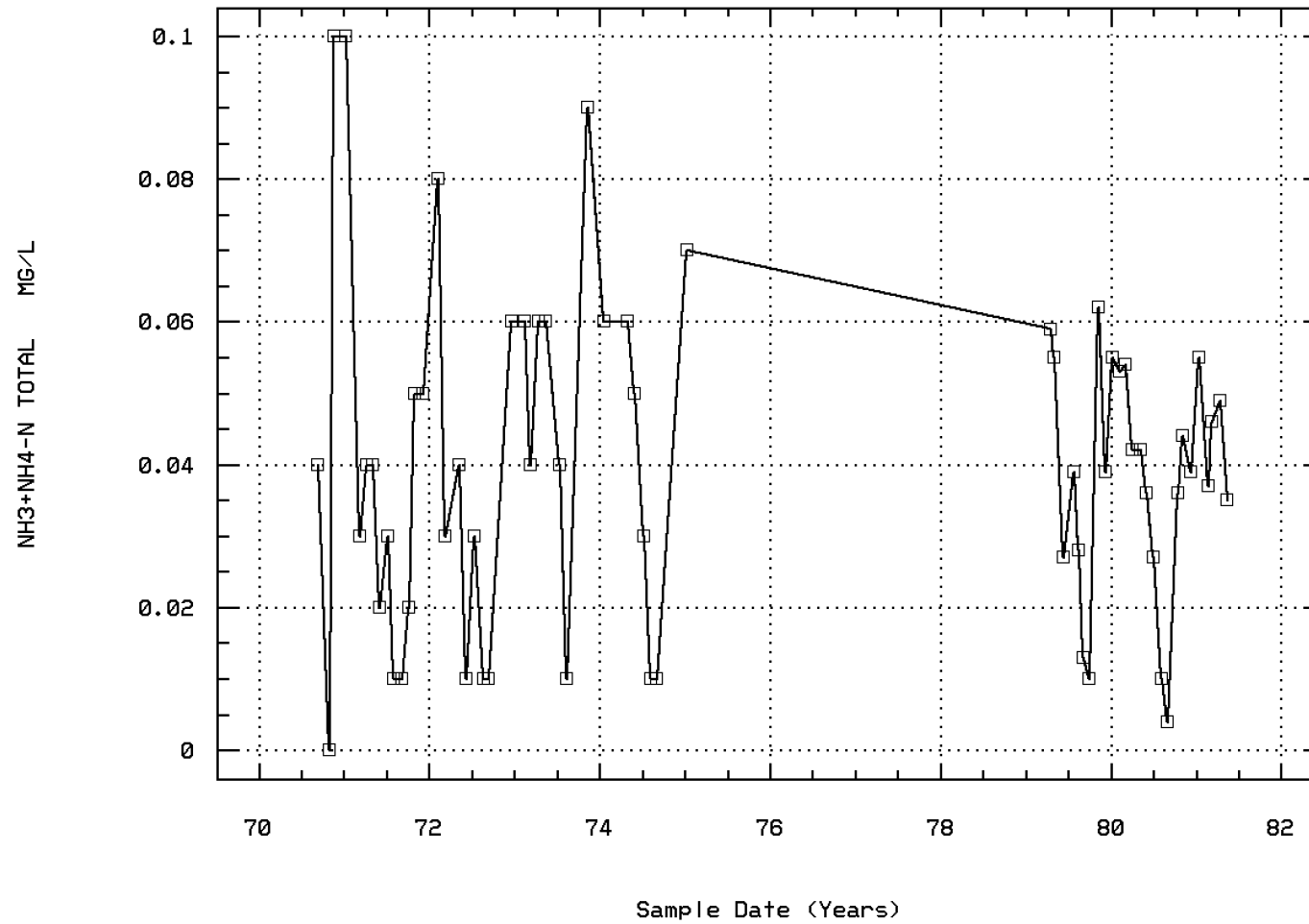
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00610

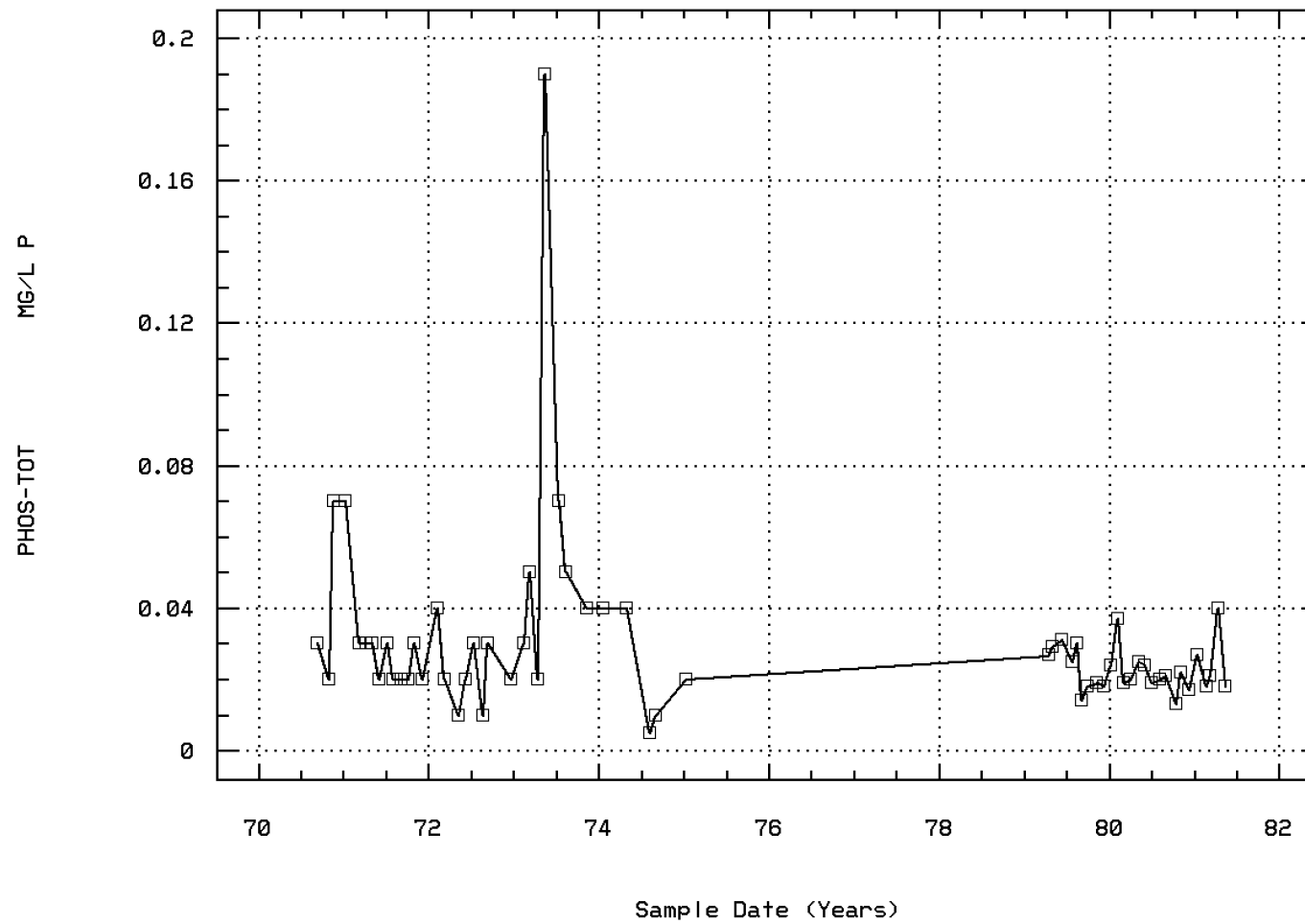
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00665

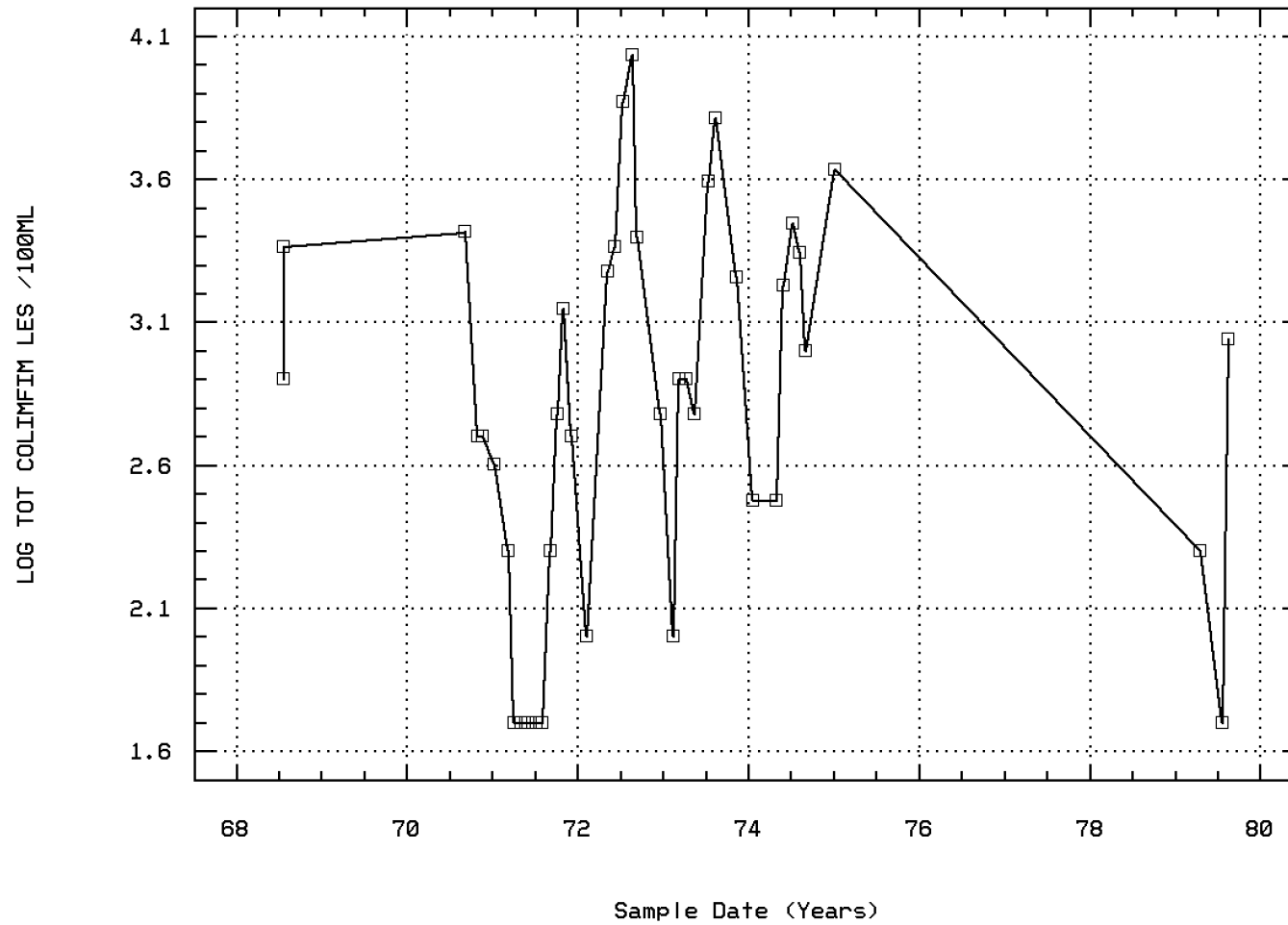
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 31504

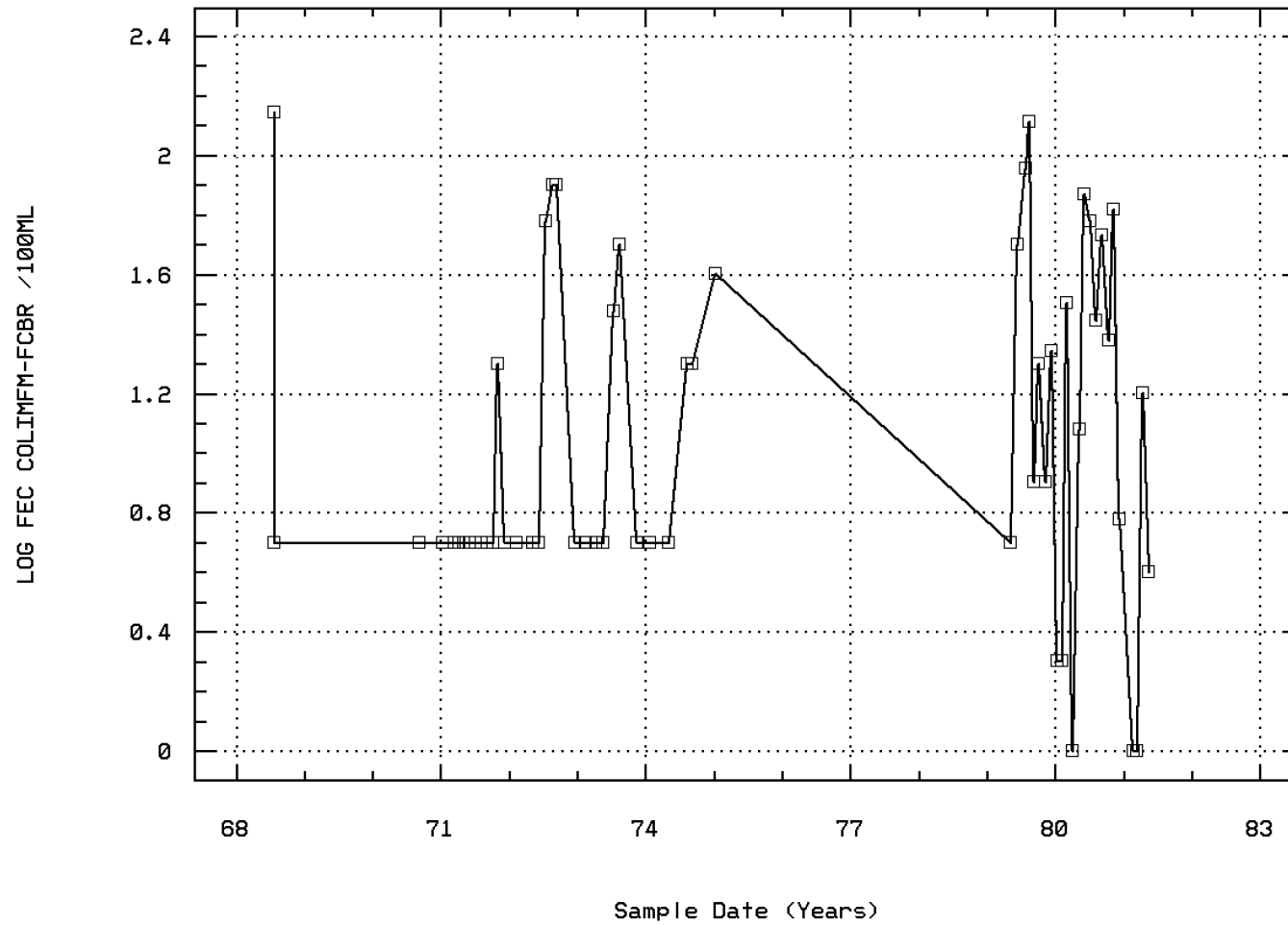
LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 31616

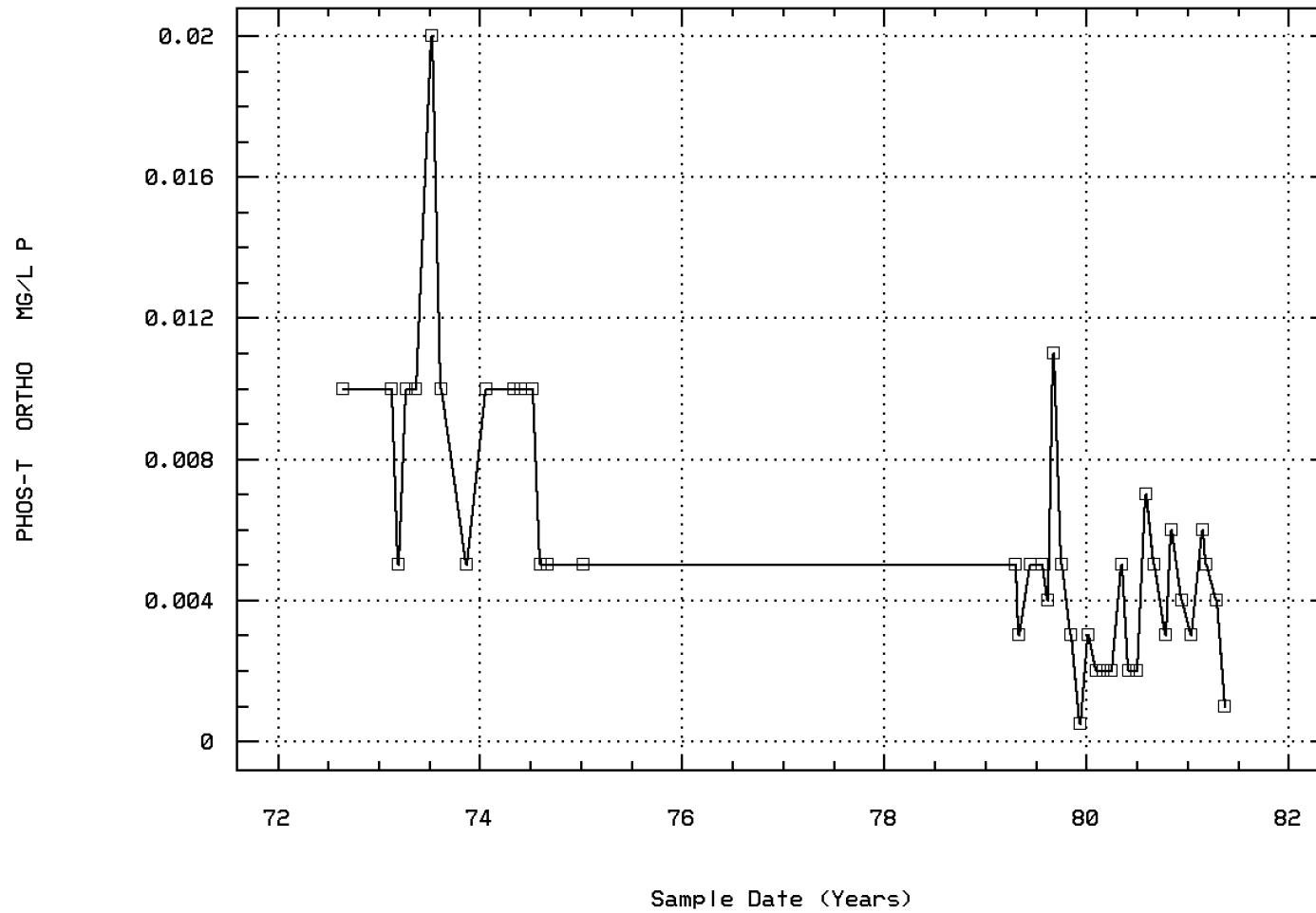
LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	21	13.5	13.071	19.5	6.5	20.482	4.526	7.	8.5	16.25	19.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	10	0.7	1.13	2.7	0.5	0.7	0.837	0.5	0.575	1.825	2.68
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	11	320.	317.727	325.	300.	61.818	7.862	302.	315.	325.	325.
00300p	OXYGEN, DISSOLVED MG/L	07/22/68-05/12/81	21	10.9	10.833	12.6	9.	0.961	0.98	9.18	10.2	11.55	12.16
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-05/12/81	20	1.4	1.503	2.9	0.25	0.333	0.577	0.83	1.2	1.8	2.54
00400p	PH (STANDARD UNITS)	07/22/68-05/12/81	20	8.35	8.32	8.6	8.	0.043	0.207	8.01	8.125	8.5	8.6
00400p	CONVERTED PH (STANDARD UNITS)	07/22/68-05/12/81	20	8.347	8.274	8.6	8.	0.045	0.212	8.01	8.125	8.5	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/68-05/12/81	20	0.004	0.005	0.01	0.003	0.	0.002	0.003	0.003	0.008	0.01
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	20	3.5	4.	21.	0.	20.079	4.481	0.5	1.	5.	6.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-05/12/81	21	0.01	0.027	0.1	0.	0.001	0.028	0.005	0.01	0.042	0.084
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-05/12/81	21	0.02	0.024	0.07	0.005	0.	0.015	0.01	0.016	0.03	0.048
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	14	1250.	2267.857	10800.	50.	8696002.747	2948.899	125.	500.	2525.	8650.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	14	3.094	3.044	4.033	1.699	0.358	0.598	2.	2.699	3.402	3.923
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	GEOMETRIC MEAN =			1107.454								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	21	20.	31.095	130.	5.	1128.99	33.6	5.	6.5	52.	80.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	21	1.301	1.262	2.114	0.699	0.215	0.464	0.699	0.801	1.716	1.903
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			18.284								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-05/12/81	13	0.005	0.006	0.011	0.003	0.	0.003	0.003	0.005	0.009	0.011

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	13	3.	2.777	6.	0.	2.955	1.719	0.4	1.05	4.	5.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	7	1.	1.057	1.6	0.5	0.153	0.391	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	8	322.5	325.625	340.	315.	74.554	8.634	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	07/22/68-05/12/81	12	12.95	12.633	13.8	10.8	0.832	0.912	11.04	11.925	13.35	13.74
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-05/12/81	12	1.4	1.546	3.6	0.25	0.991	0.995	0.265	0.775	2.125	3.36
00400p	PH (STANDARD UNITS)	07/22/68-05/12/81	13	8.1	8.108	8.3	7.9	0.012	0.112	7.94	8.	8.2	8.26
00400p	CONVERTED PH (STANDARD UNITS)	07/22/68-05/12/81	13	8.1	8.094	8.3	7.9	0.013	0.112	7.94	8.	8.2	8.26
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/68-05/12/81	13	0.008	0.008	0.013	0.005	0.	0.002	0.006	0.006	0.01	0.012
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	13	7.	6.769	22.	1.	32.192	5.674	1.	2.	9.	16.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-05/12/81	13	0.055	0.058	0.1	0.037	0.	0.017	0.038	0.045	0.065	0.092
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-05/12/81	13	0.024	0.029	0.07	0.017	0.	0.015	0.017	0.019	0.039	0.058
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	7	400.	900.	4300.	100.	2283333.333	1511.07	**	**	**	**
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	7	2.602	2.599	3.633	2.	0.307	0.554	**	**	**	**
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	GEOMETRIC MEAN =			396.77								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	13 ##	5.	8.692	40.	1.	116.397	10.789	1.4	3.5	8.	32.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	13 ##	0.699	0.732	1.602	0.	0.176	0.42	0.12	0.5	0.889	1.498
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.398								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-05/12/81	9	0.004	0.005	0.01	0.001	0.	0.003	0.001	0.003	0.008	0.01

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	9	4.5	5.233	9.5	0.6	8.828	2.971	0.6	3.	8.	9.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	4	0.9	0.95	1.5	0.5	0.23	0.48	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	4	317.5	317.5	325.	310.	41.667	6.455	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	07/22/68-05/12/81	9	12.1	11.989	13.3	11.	0.649	0.805	11.	11.05	12.5	13.3
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-05/12/81	9	1.6	1.478	2.1	0.8	0.162	0.402	0.8	1.15	1.75	2.1
00400p	PH (STANDARD UNITS)	07/22/68-05/12/81	9	8.2	8.233	8.6	7.9	0.043	0.206	7.9	8.1	8.4	8.6
00400p	CONVERTED PH (STANDARD UNITS)	07/22/68-05/12/81	9	8.2	8.192	8.6	7.9	0.044	0.211	7.9	8.1	8.4	8.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/68-05/12/81	9	0.006	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.008	0.013
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	9	7.	10.444	28.	2.	63.278	7.955	2.	5.5	14.5	28.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-05/12/81	9	0.042	0.043	0.06	0.03	0.	0.01	0.03	0.035	0.052	0.06
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-05/12/81	9	0.021	0.028	0.05	0.019	0.	0.011	0.019	0.02	0.035	0.05
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	4	500.	462.5	800.	50.	155625.	394.493	**	**	**	**
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/22/68-08/14/79	4	2.602	2.452	2.903	1.699	0.332	0.576	**	**	**	**
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			282.843								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	8 ##	5.	9.375	32.	1.	107.696	10.378	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	8 ##	0.699	0.726	1.505	0.	0.281	0.53	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.318								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-05/12/81	6	0.005	0.005	0.01	0.002	0.	0.003	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

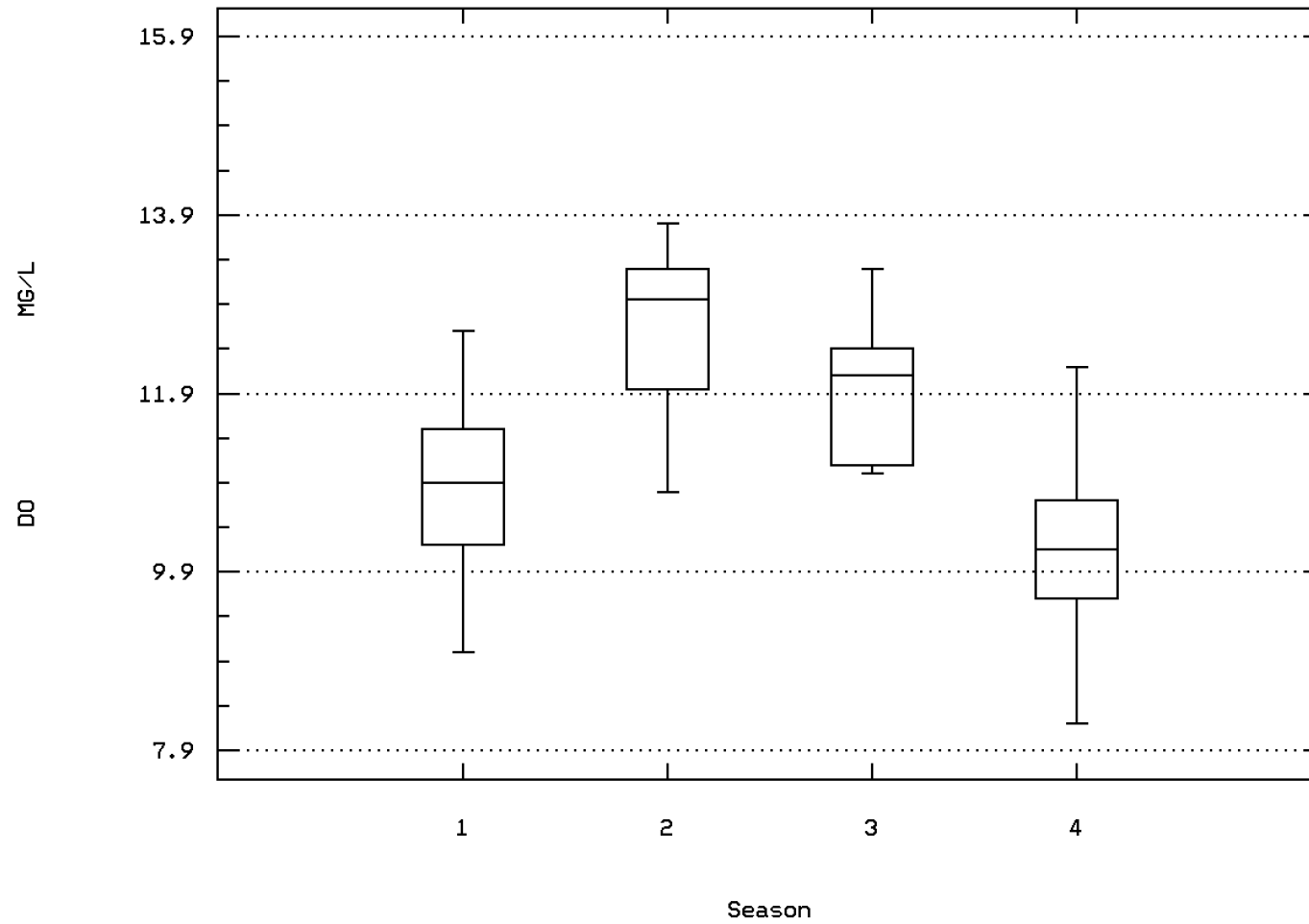
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-05/12/81	26	15.75	14.981	21.5	5.5	16.39	4.048	8.35	12.75	17.25	20.3
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	9	1.1	1.178	1.8	0.9	0.069	0.264	0.9	1.	1.25	1.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	11	315.	310.	325.	295.	90.	9.487	296.	300.	315.	324.
00300p	OXYGEN, DISSOLVED MG/L	07/22/68-05/12/81	26	10.15	10.165	12.2	8.2	0.926	0.962	8.74	9.55	10.725	11.55
00310p	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-05/12/81	19	1.6	1.611	2.6	0.8	0.23	0.479	1.	1.3	1.9	2.3
00400p	PH (STANDARD UNITS)	07/22/68-05/12/81	19	8.3	8.284	8.5	7.9	0.034	0.183	8.	8.2	8.4	8.5
00400p	CONVERTED PH (STANDARD UNITS)	07/22/68-05/12/81	19	8.3	8.245	8.5	7.9	0.035	0.188	8.	8.2	8.4	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/68-05/12/81	19	0.005	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.006	0.01
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-05/12/81	19	7.	6.921	14.	0.5	13.174	3.63	1.	4.	9.	13.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-05/12/81	19	0.039	0.038	0.06	0.01	0.	0.014	0.02	0.03	0.05	0.06
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-05/12/81	17	0.027	0.038	0.19	0.01	0.002	0.041	0.016	0.02	0.031	0.094
31504p	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-08/14/79	15	800.	1626.667	7400.	50.	4024238.095	2006.05	50.	50.	2300.	5300.
31504p	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/22/68-08/14/79	15	2.903	2.76	3.869	1.699	0.602	0.776	1.699	1.699	3.362	3.702
31504p	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			575.032								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	21	10.	28.333	140.	4.	1380.133	37.15	5.	5.	55.	86.8
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-05/12/81	21	1.	1.127	2.146	0.602	0.277	0.527	0.699	0.699	1.739	1.937
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.407								
70507p	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-05/12/81	13	0.005	0.007	0.02	0.001	0.	0.005	0.001	0.003	0.01	0.016

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0023 Parameter Code: 00300

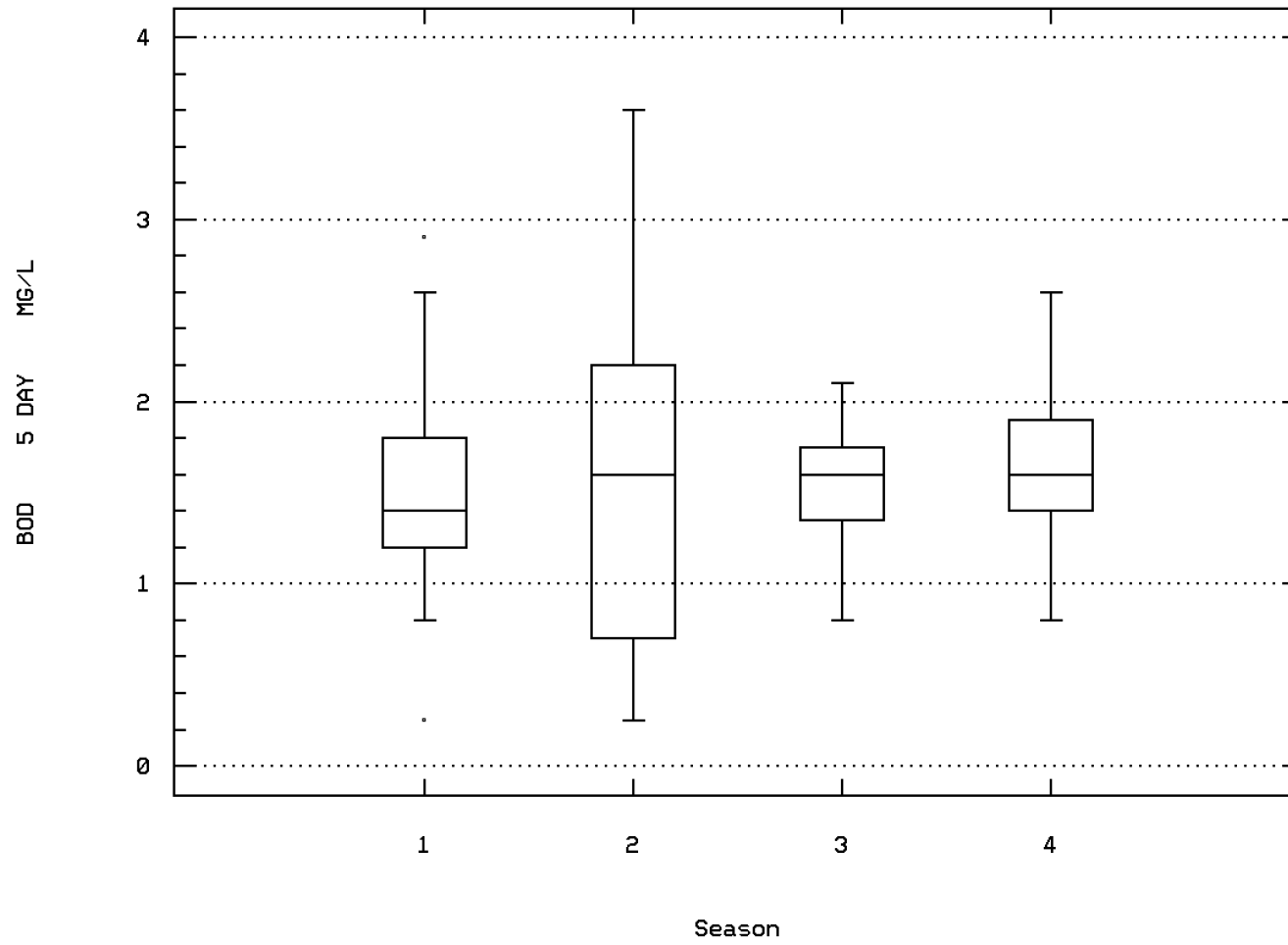
OXYGEN, DISSOLVED



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00310

BOD, 5 DAY, 20 DEG C

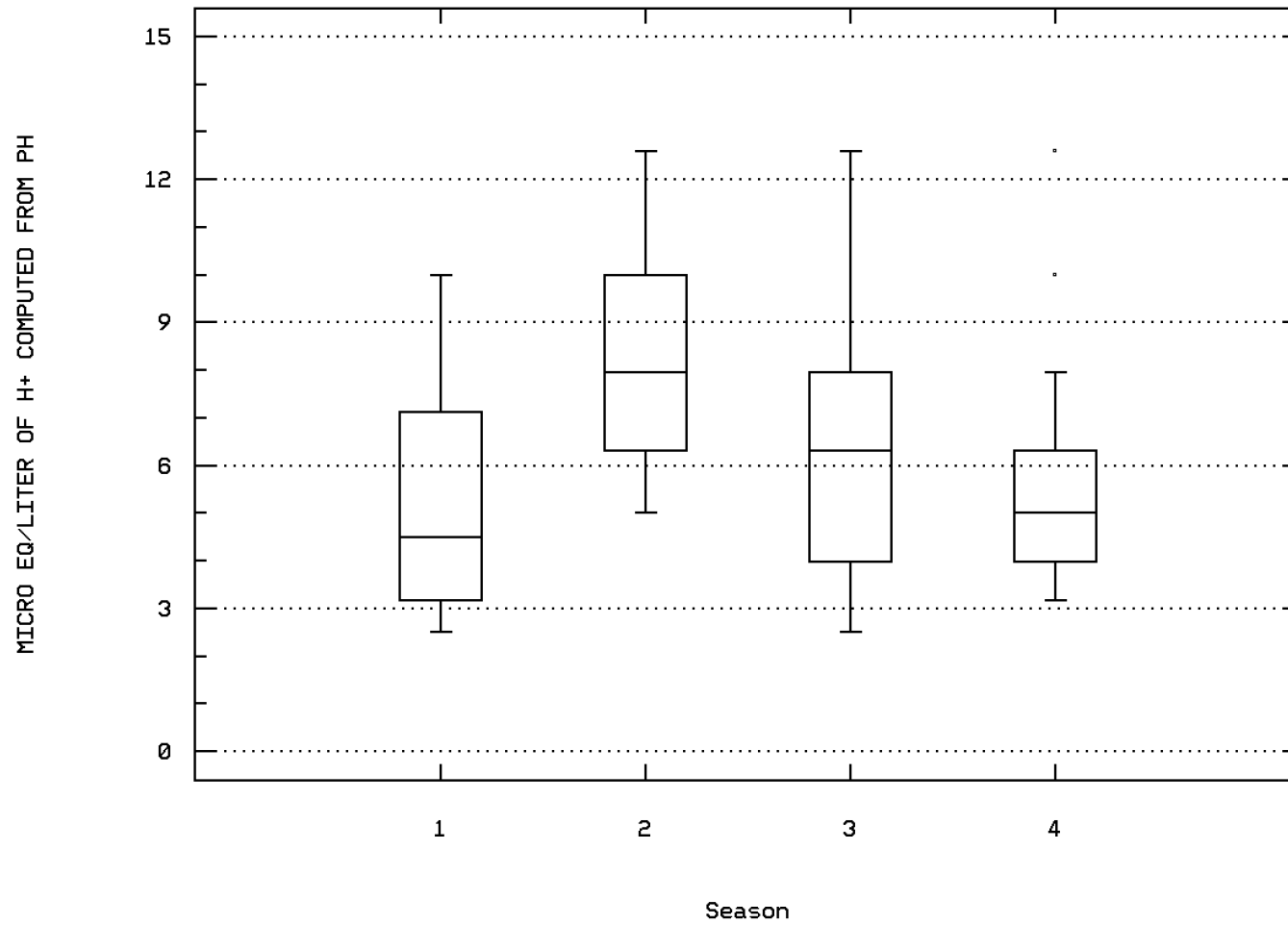


PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH

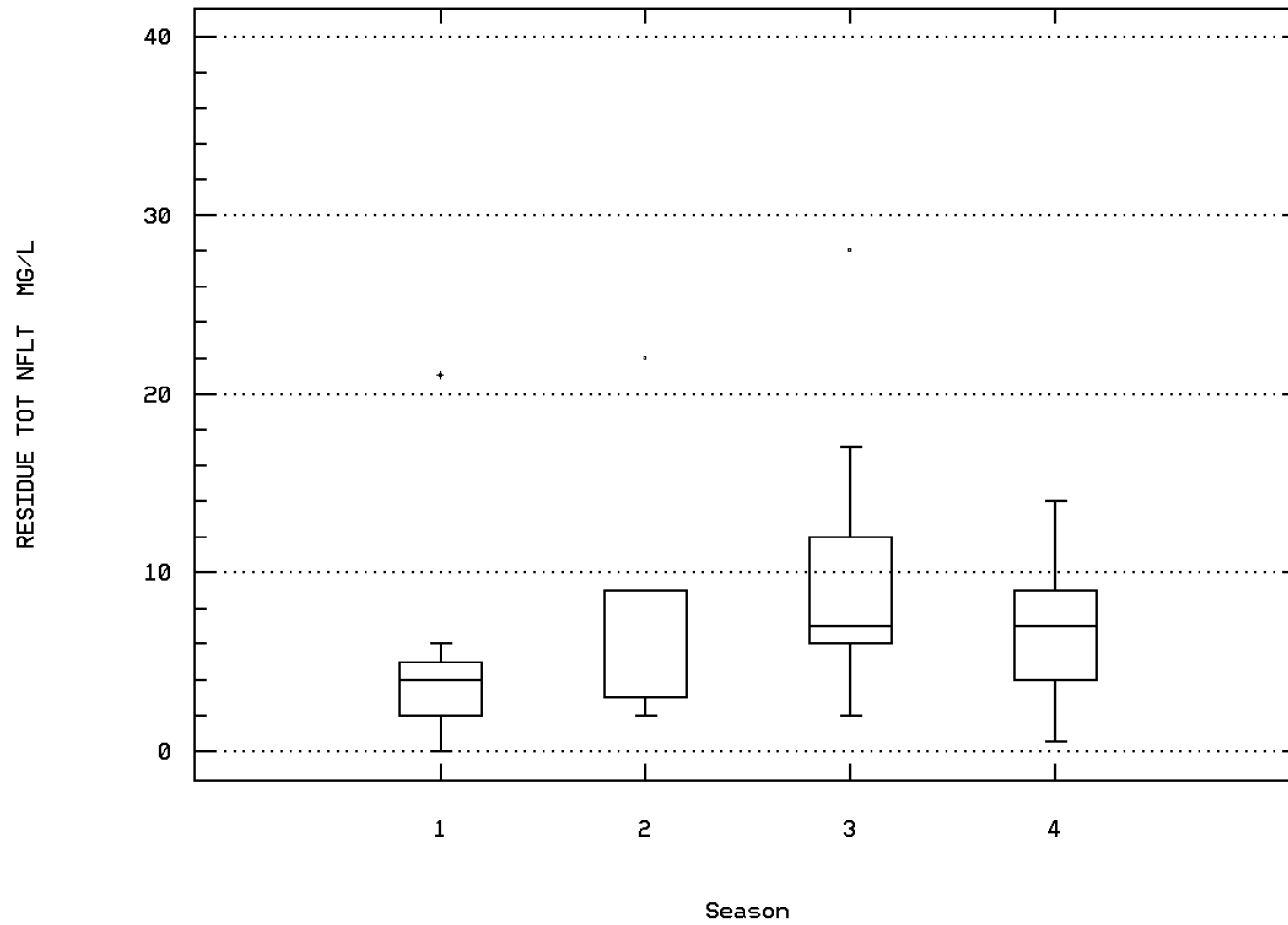
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PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00530

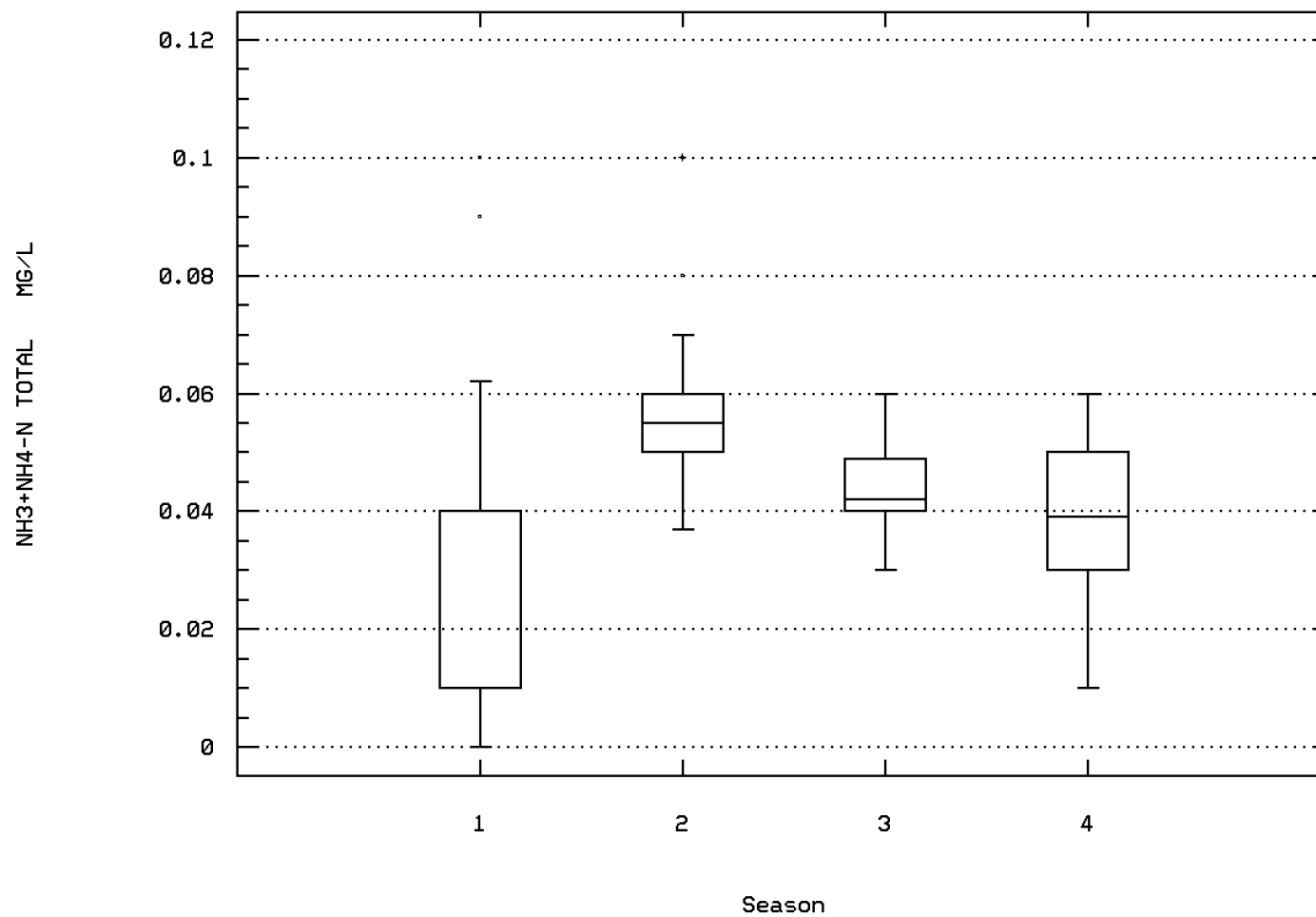
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00610

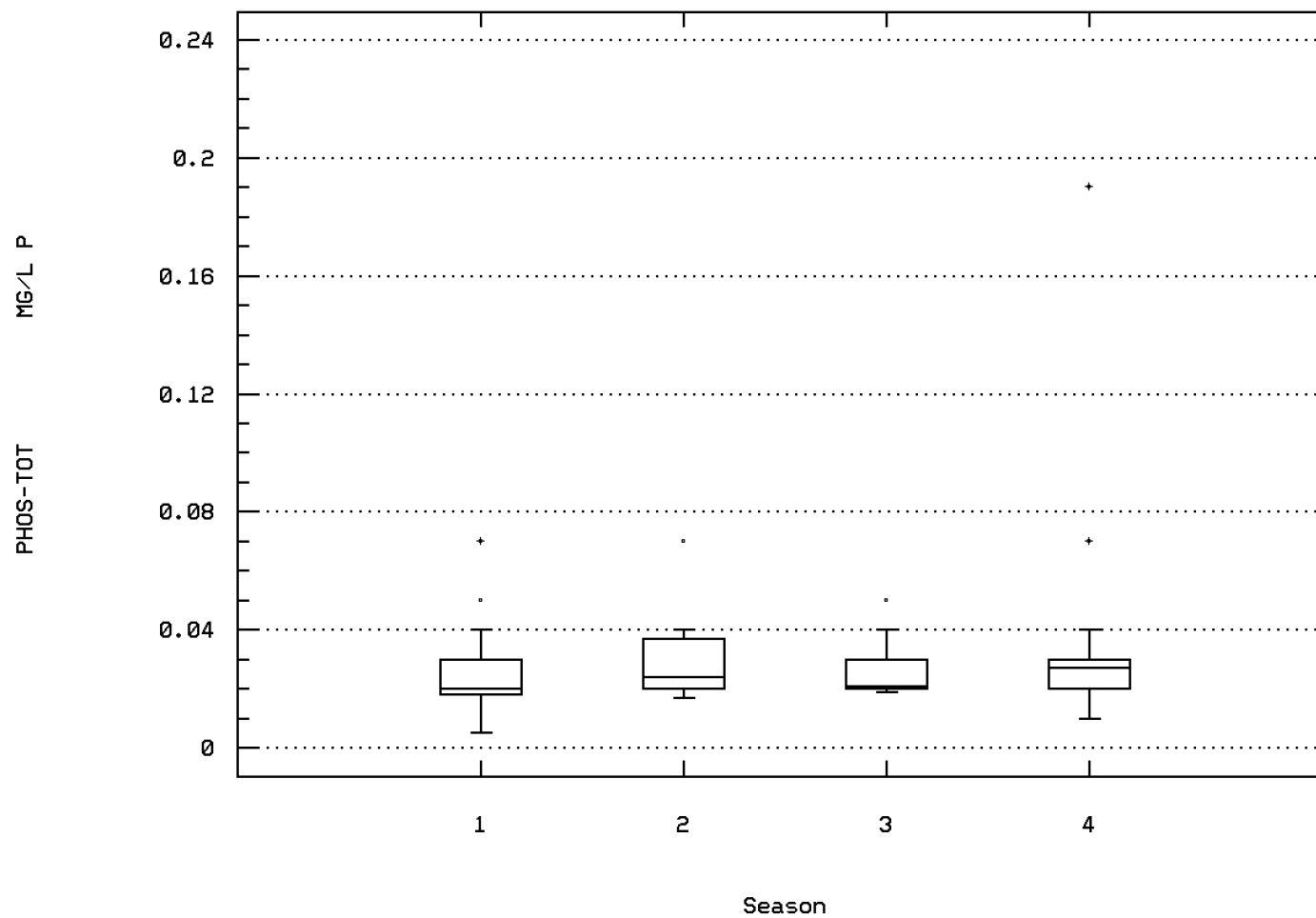
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 00665

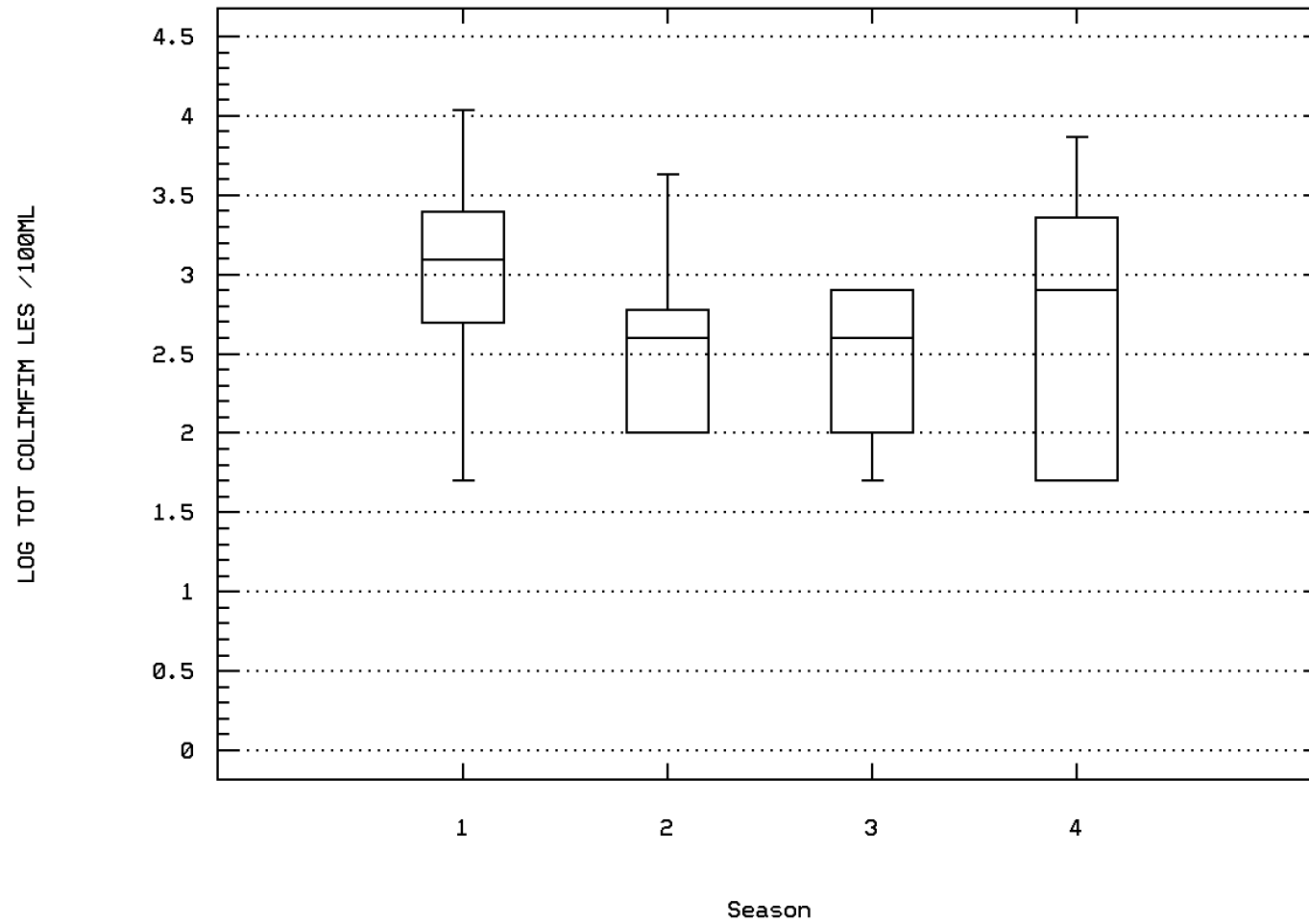
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 31504

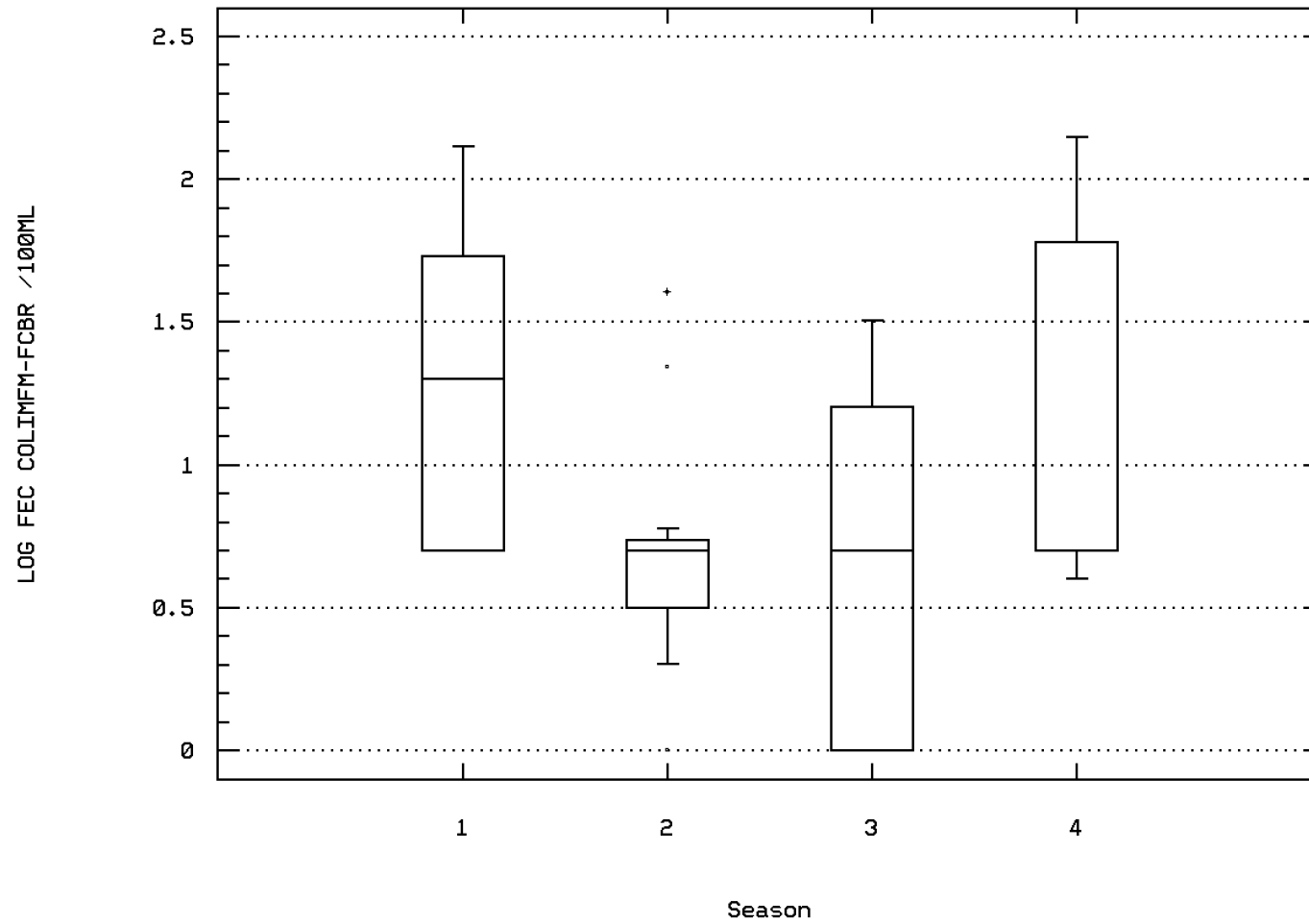
LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 31616

LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR

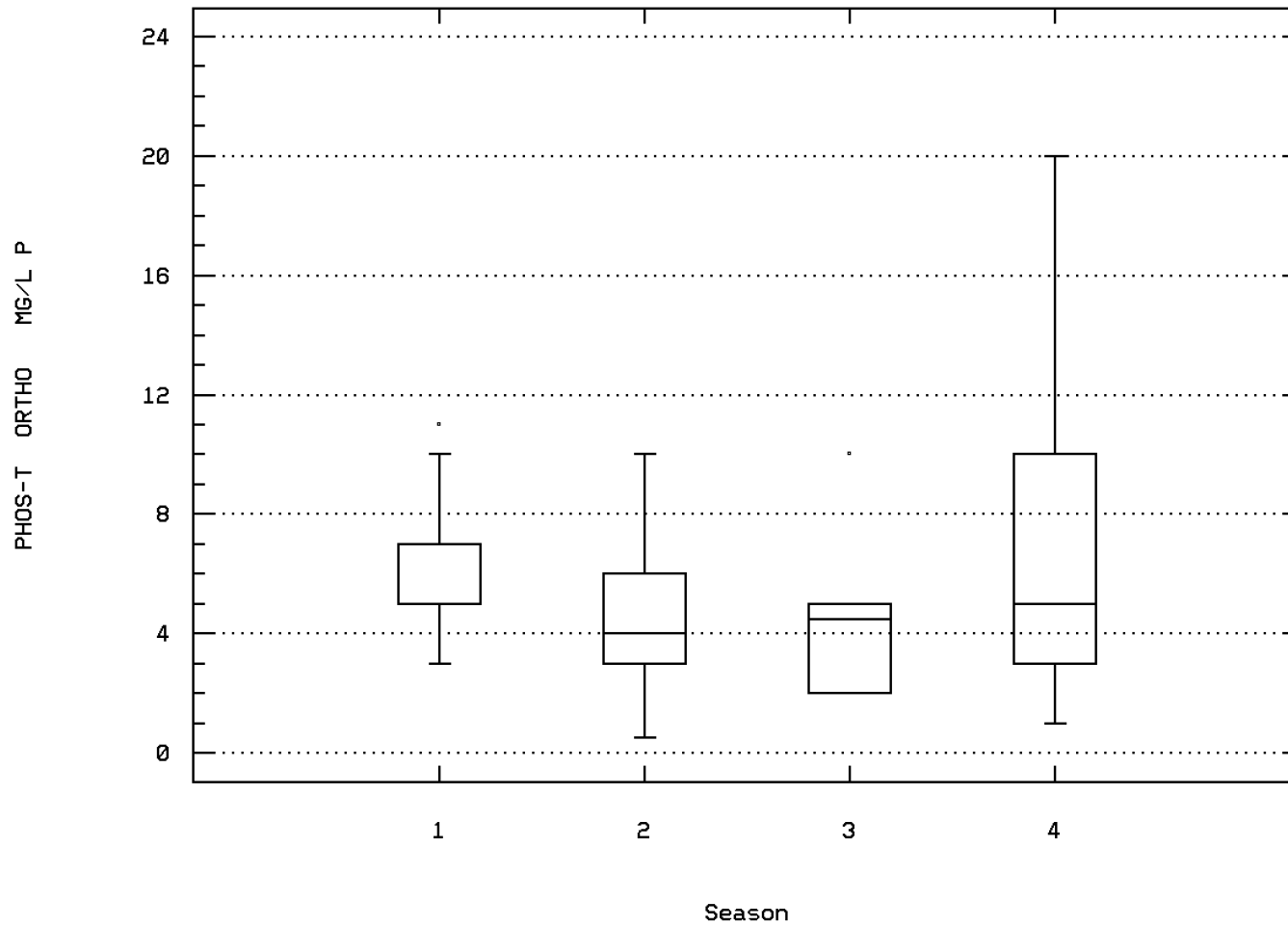


PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station: SLBE0023 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/

(X 0.001)



PLATTE R AT INDIAN HILL RD; HOMESTEAD T

Station Inventory for Station: SLBE0024

NPS Station ID: SLBE0024	LAT/LON: 44.670892/ -86.035920	Agency: 11NPSWRD	Date Created: 11/30/96
Location: Platte River at Indian Hill Road		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYPA/AMBNT/STREAM		STORET Station ID(s): SLBE_PR_03	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: PLATTE		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle and lies west of Honor where Indian Hill Road crosses the Platte River. This station was moved upstream to station SLBE_PR_04 on 04/04/90. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH.(616)375-4611. This station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter NPS WRD Fort Collins Colorado. PH.(970)225-3514.			

Parameter Inventory for Station: SLBE0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-03/21/90	6	39.05	38.917	41.9	34.1	8.05	2.837	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	11/30/89-03/21/90	6	12.6	12.217	12.9	11.2	0.65	0.806	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-03/21/90	17	0.017	0.037	0.111	0.012	0.001	0.035	0.012	0.015	0.058	0.106

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
						1	0	0.00	3	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0025

NPS Station ID: SLBE0025 LAT/LON: 44.672503/ -85.930005

Location: PLATTE R ABOVE PLATTE HATCHERY; INLAND TWP SEC 6

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104041002.56

Description:

PLATTE RIVER BRIDGE AT THE NORTHERN MOST PLATTE HATCHERY ACCESS RD. BENZIE COUNTY, T26N, R13W, SECTION 6, INLAND TOWNSHIP.

THIS STATION IS ABOVE ALL HATCHERY DISCHARGES

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100051

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.52

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	106	9.	10.134	23.5	0.	49.119	7.009	1.85	3.375	16.25	20.
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	11.	9.75	15.	2.	36.25	6.021	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	1.697	4.	1.	0.481	0.694	1.	1.	2.	2.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	73	1.	1.084	4.9	0.3	0.508	0.713	0.4	0.7	1.25	1.76
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	77	305.	301.234	330.	270.	173.129	13.158	285.	290.	310.	316.
00300p OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	105	10.7	10.766	13.6	7.5	2.601	1.613	8.6	9.5	12.25	13.
00310p BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	101	1.2	1.345	3.8	0.25	0.497	0.705	0.52	0.8	1.8	2.18
00324 BOD, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	08/26/75-07/25/78	36	7.5	7.133	13.	2.3	7.092	2.663	3.14	5.125	9.	10.3
00400p PH (STANDARD UNITS)	09/08/70-05/12/81	104	8.2	8.156	8.7	7.4	0.058	0.241	7.85	8.	8.3	8.5
00400p CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	104	8.2	8.081	8.7	7.4	0.064	0.253	7.85	8.	8.3	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	104	0.006	0.008	0.04	0.002	0.	0.006	0.003	0.005	0.01	0.014
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/26/75-05/12/81	39	155.	154.	165.	138.	50.684	7.119	143.	149.	160.	164.
00500 RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	70	200.5	200.271	219.	183.	68.896	8.3	189.	194.	206.25	210.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	104	3.	3.913	21.	0.	12.818	3.58	0.5	1.	6.	8.
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/26/75-03/23/76	7 ##	2.5	2.357	3.5	0.5	1.393	1.18	**	**	**	**
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	71	0.25	0.253	0.43	0.09	0.005	0.068	0.18	0.21	0.3	0.358
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	106	0.018	0.021	0.09	0.	0.	0.017	0.004	0.009	0.03	0.041
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.006	0.01	0.	0.	0.004	0.	0.001	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.2	0.184	0.33	0.02	0.008	0.087	0.1	0.1	0.258	0.3
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/79-05/12/81	18	0.27	0.278	0.41	0.14	0.004	0.064	0.212	0.243	0.315	0.374
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	08/26/75-05/12/81	70	0.195	0.194	0.36	0.09	0.005	0.073	0.101	0.13	0.26	0.29
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	104	0.013	0.019	0.11	0.	0.	0.018	0.007	0.009	0.02	0.04
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	08/26/75-07/25/78	36	2.75	3.272	12.	1.9	3.143	1.773	2.07	2.5	3.4	5.44
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	08/26/75-09/02/80	6 ##	0.001	0.002	0.005	0.	0.	0.002	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/26/75-09/02/80	38	164.	161.816	175.	144.	56.533	7.519	150.9	157.	168.	170.1
00916 CALCIUM, TOTAL (MG/L AS Ca)	08/26/75-07/07/77	3	43.	44.	46.	43.	3.	1.732	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/26/75-07/07/77	3	12.	11.5	12.	10.5	0.75	0.866	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	08/26/75-07/07/77	3	2.9	2.867	3.1	2.6	0.063	0.252	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	08/26/75-07/07/77	3	0.48	0.537	0.68	0.45	0.016	0.125	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/75-05/12/81	70	3.	2.757	5.	2.	0.389	0.624	2.	2.	3.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/80-05/12/81	2	8.	8.	8.	0.	0.	**	**	**	**	
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/26/75-09/04/79	4	11.5	11.2	12.	9.8	1.093	1.046	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	08/26/75-09/02/80	5	0.22	0.21	0.22	0.18	0.	0.017	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	70	3.2	3.076	3.7	2.	0.174	0.418	2.5	2.675	3.4	3.5
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/76-09/02/80	5 ##	0.2	0.38	1.	0.1	0.147	0.383	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	07/07/77-09/12/78	2 ##	8.75	8.75	15.	2.5	78.125	8.839	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/26/75-08/26/75	1	0.7	0.7	0.7	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/76-09/02/80	5 ##	1.	0.91	2.	0.05	0.528	0.727	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/76-09/02/80	5 ##	1.	1.6	3.	0.5	1.175	1.084	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/76-09/02/80	5	1.	2.8	8.	1.	9.2	3.033	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/03/76-09/02/80	5	78.	85.6	160.	50.	1886.8	43.437	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/26/75-08/26/75	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/26/75-08/26/75	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/03/76-09/02/80	5	5.	5.8	11.	0.5	21.075	4.591	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/76-09/02/80	5	9.	13.4	30.	5.	103.3	10.164	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/75-08/26/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/26/75-08/26/75	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/76-09/02/80	5 ##	2.5	5.5	11.	2.5	17.375	4.168	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/75-08/26/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/76-09/02/80	5 ##	1.	0.8	1.	0.5	0.075	0.274	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/26/75-08/26/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/76-09/02/80	5	3.	5.9	11.	2.5	17.8	4.219	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	07/07/77-09/02/80	4 ##	1.	1.125	2.	0.5	0.396	0.629	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/26/75-08/26/75	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/76-09/04/79	4 ##	0.5	0.55	1.	0.2	0.11	0.332	**	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	07/07/77-09/02/80	4 ##	25.	28.125	50.	12.5	247.396	15.729	**	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-12/20/77	39	200.	2174.359	30000.	50.	26425904.184	5140.613	50.	50.	2500.	6000.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	09/08/70-12/20/77	39	2.301	2.537	4.477	1.699	0.72	0.848	1.699	1.699	3.398	3.778
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			344.384								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	105 ##	5.	39.029	2000.	1.	39807.72	199.519	2.	5.	10.	50.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	105 ##	0.699	0.915	3.301	0.	0.32	0.565	0.301	0.699	1.	1.699
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.225								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	11/05/75-07/25/78	33	10.	68.939	470.	5.	11355.871	106.564	5.	5.	115.	238.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	11/05/75-07/25/78	33	1.	1.33	2.672	0.699	0.463	0.681	0.699	0.699	2.057	2.376
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			21.375								
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/12/78-05/12/81	9	1.1	1.989	9.4	0.5	8.076	2.842	0.5	0.65	1.85	9.4
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/26/75-09/02/80	6	2.	2.208	4.	0.25	1.56	1.249	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23 ##	0.001	0.003	0.026	0.001	0.	0.006	0.001	0.001	0.005	0.009
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23	0.002	0.022	0.202	0.001	0.002	0.045	0.001	0.001	0.035	0.068
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	21 ##	0.001	0.	0.001	0.	0.	0.	0.	0.	0.001	0.001
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	20 ##	0.005	0.014	0.057	0.005	0.	0.017	0.005	0.005	0.015	0.051
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	71	198.	196.493	214.	179.	70.968	8.424	185.	189.	202.	207.6
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	85	0.002	0.003	0.02	0.001	0.	0.004	0.001	0.001	0.004	0.006
71900	MERCURY, TOTAL (UG/L AS HG)	08/26/75-09/02/80	6 ##	0.1	0.192	0.5	0.1	0.026	0.163	**	**	**	**
80087	BOD, CARBONACEOUS, 20 DAY, 20 DEG C MG/L	09/28/77-09/28/77	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0025

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	73	0	0.00	26	0	0.00	18	0	0.00	10	0	0.00	19	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	105	0	0.00	37	0	0.00	24	0	0.00	15	0	0.00	29	0	0.00
00400	PH	Other-Hi Lim.	9.	104	0	0.00	36	0	0.00	24	0	0.00	15	0	0.00	29	0	0.00
		Other-Lo Lim.	6.5	104	0	0.00	36	0	0.00	24	0	0.00	15	0	0.00	29	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

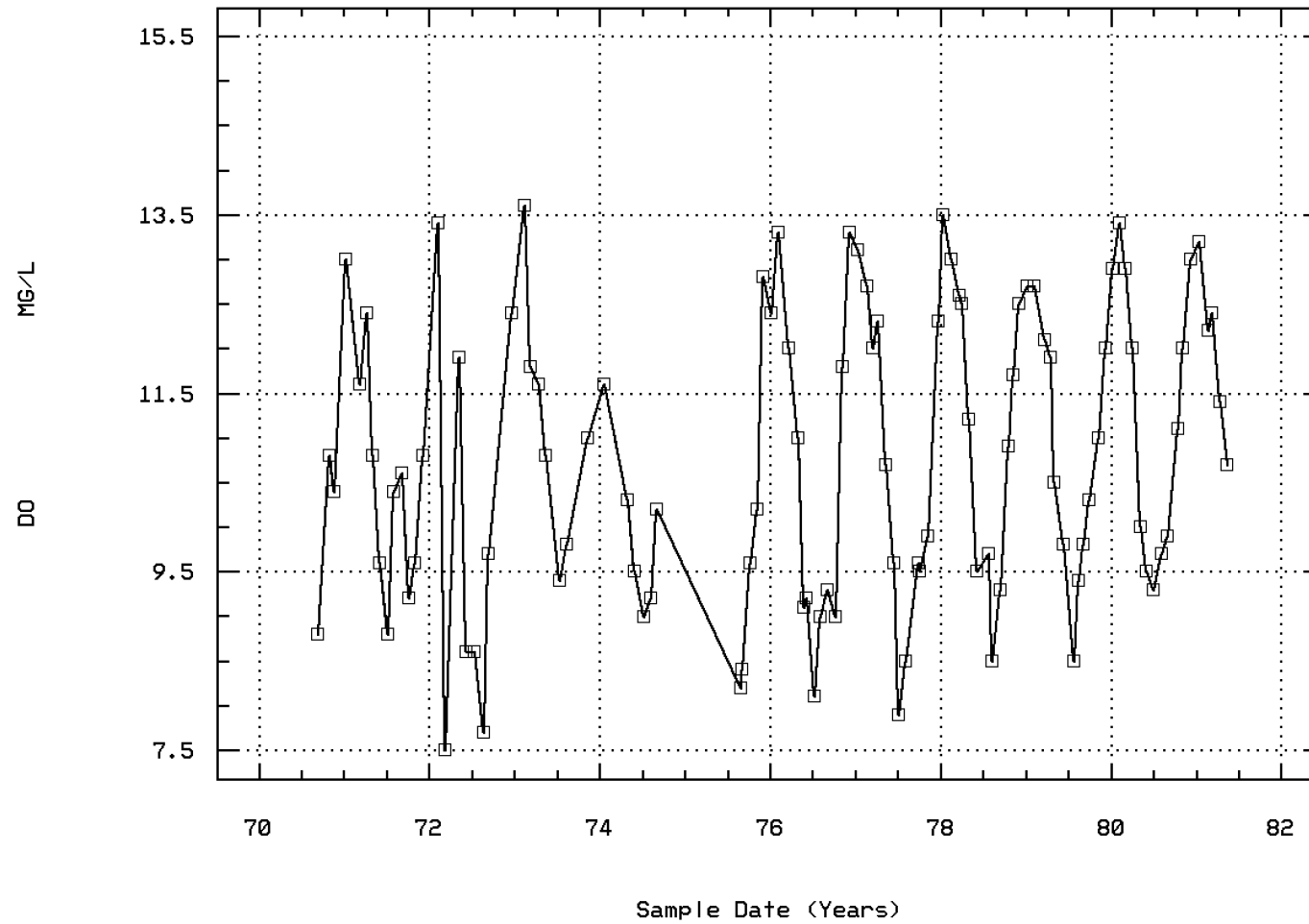
EPA Water Quality Criteria Analysis for Station: SLBE0025

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	36	0	0.00	13	0	0.00	7	0	0.00				11	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL I DET.	10.	70	0	0.00	24	0	0.00	18	0	0.00	10	0	0.00	18	0	0.00
00720	CYANIDE, TOTAL	0.022	6	0	0.00	5	0	0.00							1	0	0.00
	Drinking Water	0.2	6	0	0.00	5	0	0.00							1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	860.	70	0	0.00	24	0	0.00	18	0	0.00	10	0	0.00	18	0	0.00
	Drinking Water	250.	70	0	0.00	24	0	0.00	18	0	0.00	10	0	0.00	18	0	0.00
00945	SULFATE, TOTAL (AS SO4)	250.	2	0	0.00	1	0	0.00							1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	250.	4	0	0.00	3	0	0.00							1	0	0.00
00951	FLUORIDE, TOTAL AS F	4.	5	0	0.00	4	0	0.00							1	0	0.00
01000	ARSENIC, DISSOLVED	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	360.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	50.	5	0	0.00	4	0	0.00							1	0	0.00
01007	BARIUM, TOTAL	2000.	2	0	0.00	1	0	0.00							1	0	0.00
01025	CADMIUM, DISSOLVED	3.9	1	0	0.00	1	0	0.00									
	Drinking Water	5.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	3.9	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	5.	5	0	0.00	4	0	0.00							1	0	0.00
01030	CHROMIUM, DISSOLVED	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	100.	5	0	0.00	4	0	0.00							1	0	0.00
01040	COPPER, DISSOLVED	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	18.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	1300.	5	0	0.00	4	0	0.00							1	0	0.00
01049	LEAD, DISSOLVED	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	82.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	15.	5	0	0.00	4	0	0.00							1	0	0.00
01065	NICKEL, DISSOLVED	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	1400.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	100.	5	0	0.00	4	0	0.00							1	0	0.00
01075	SILVER, DISSOLVED	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	4.1	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	100.	5	0	0.00	4	0	0.00							1	0	0.00
01090	ZINC, DISSOLVED	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	120.	5	0	0.00	4	0	0.00							1	0	0.00
	Drinking Water	5000.	5	0	0.00	4	0	0.00							1	0	0.00
01145	SELENIUM, DISSOLVED	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	20.	4	0	0.00	3	0	0.00							1	0	0.00
	Drinking Water	50.	4	0	0.00	3	0	0.00							1	0	0.00
31504	COLIFORM,TOT, MEMBRANE FILTR,IMMED. LES-E	1000.	39	12	0.31	13	5	0.38	8	0	0.00	5	0	0.00	13	7	0.54
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	105	4	0.04	37	2	0.05	25	0	0.00	15	0	0.00	28	2	0.07
39365	DDE IN WHOLE WATER SAMPLE	1050.	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	1.1	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	2.5	21	0	0.00	9	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00
71900	MERCURY, TOTAL	2.4	6	0	0.00	5	0	0.00							1	0	0.00
	Drinking Water	2.	6	0	0.00	5	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0025 Parameter Code: 00300

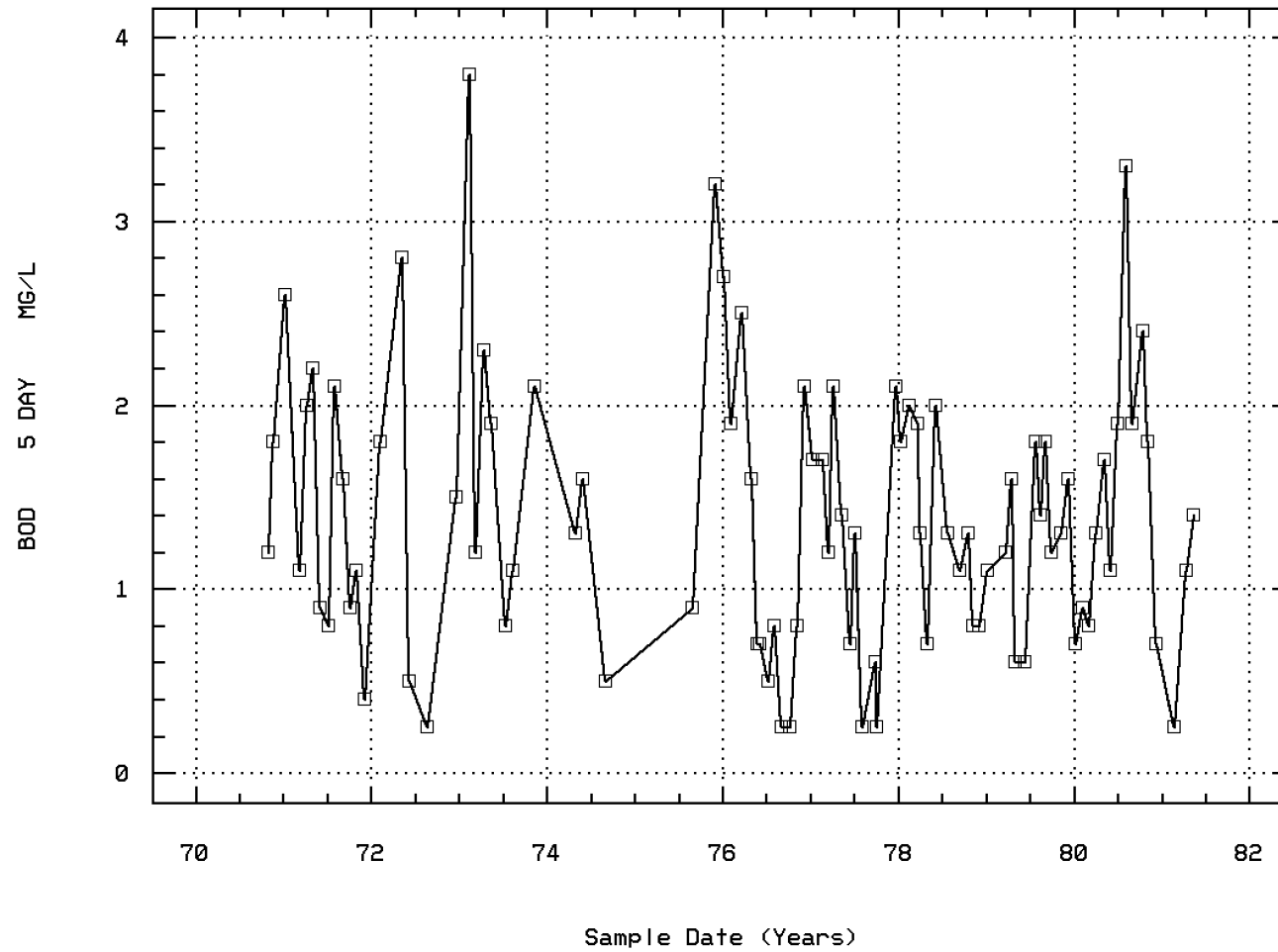
OXYGEN, DISSOLVED



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00310

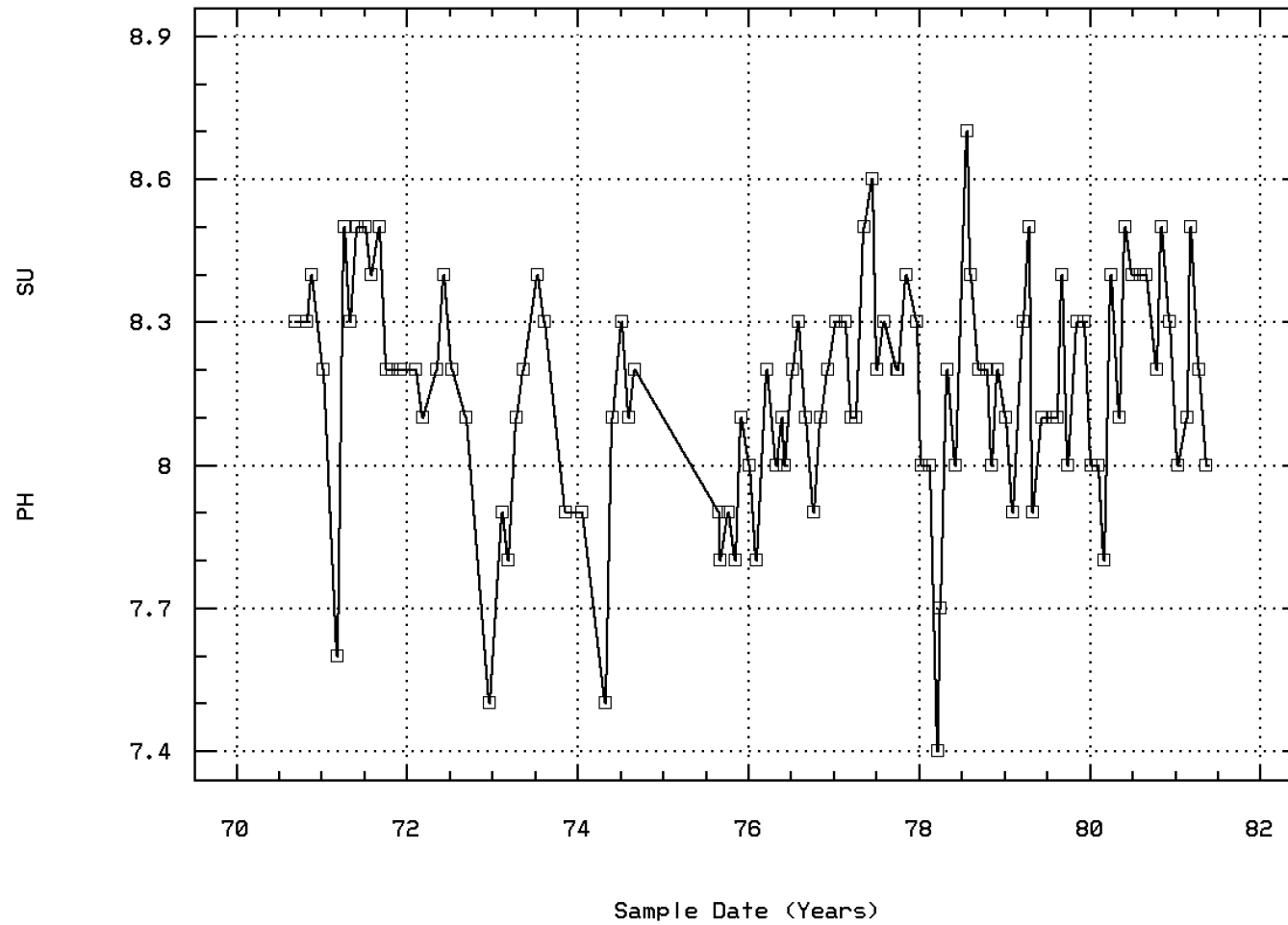
BOD, 5 DAY, 20 DEG C



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00400

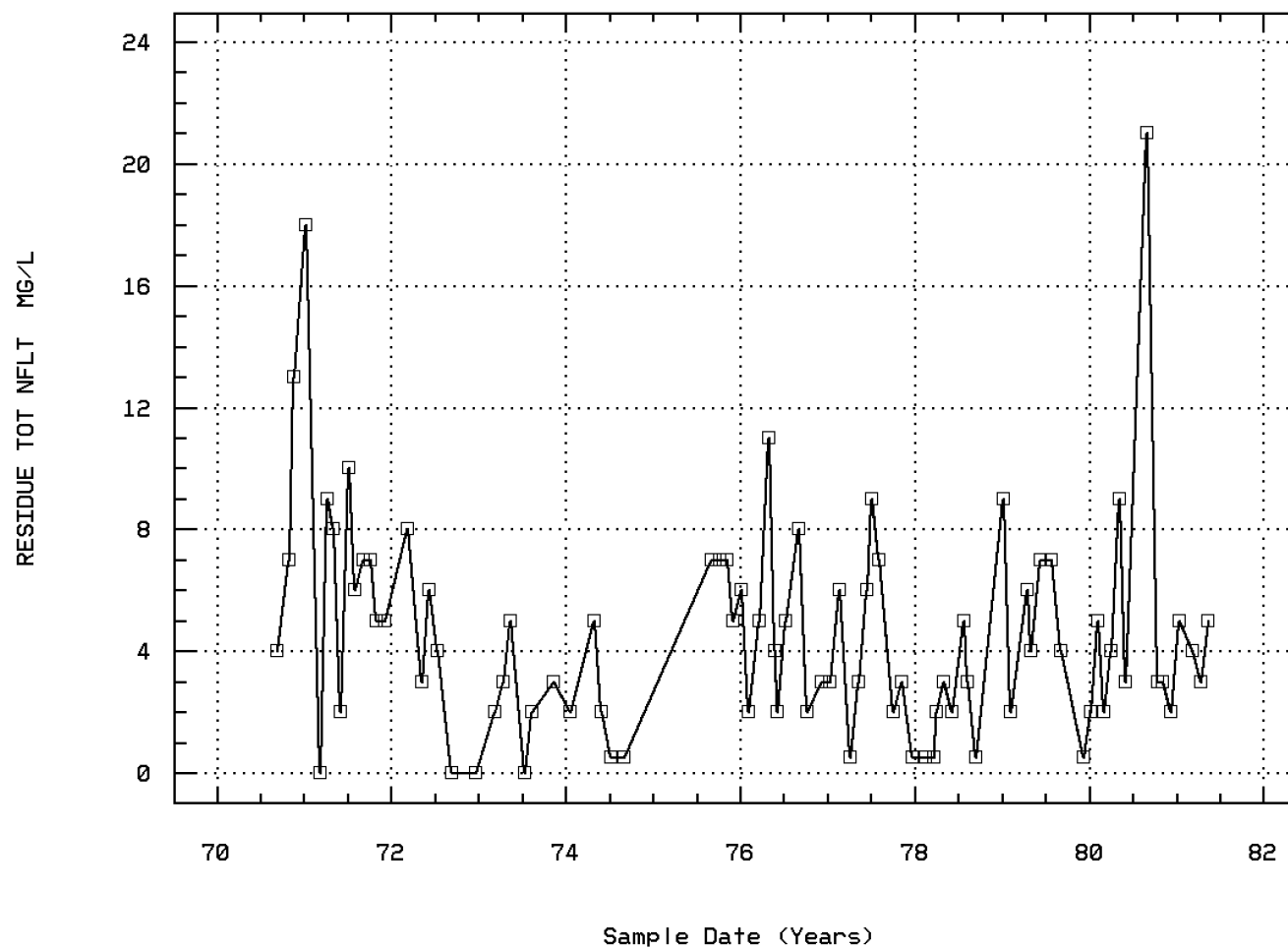
PH (STANDARD UNITS)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00530

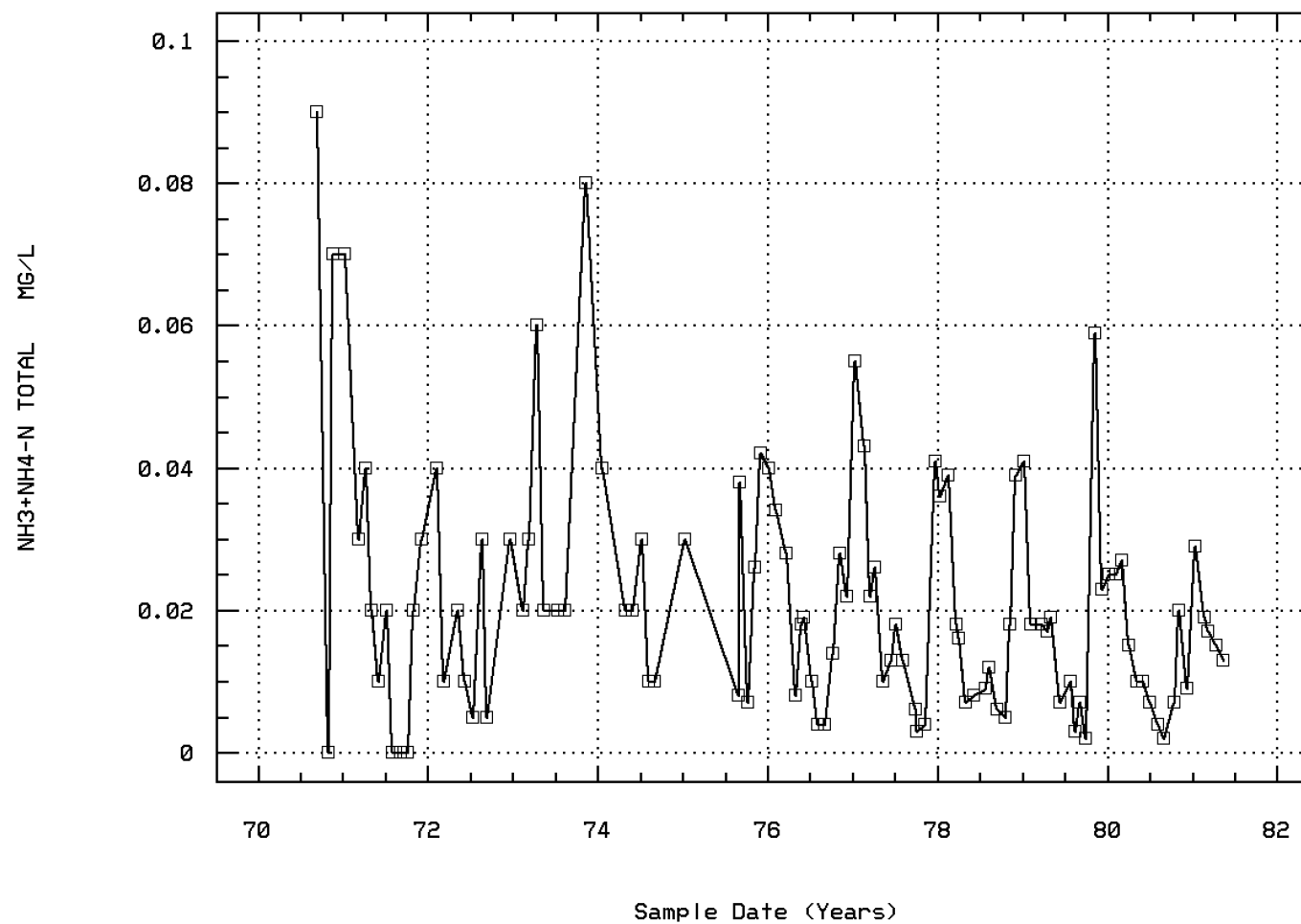
RESIDUE, TOTAL NONFILTRABLE (MG/L)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00610

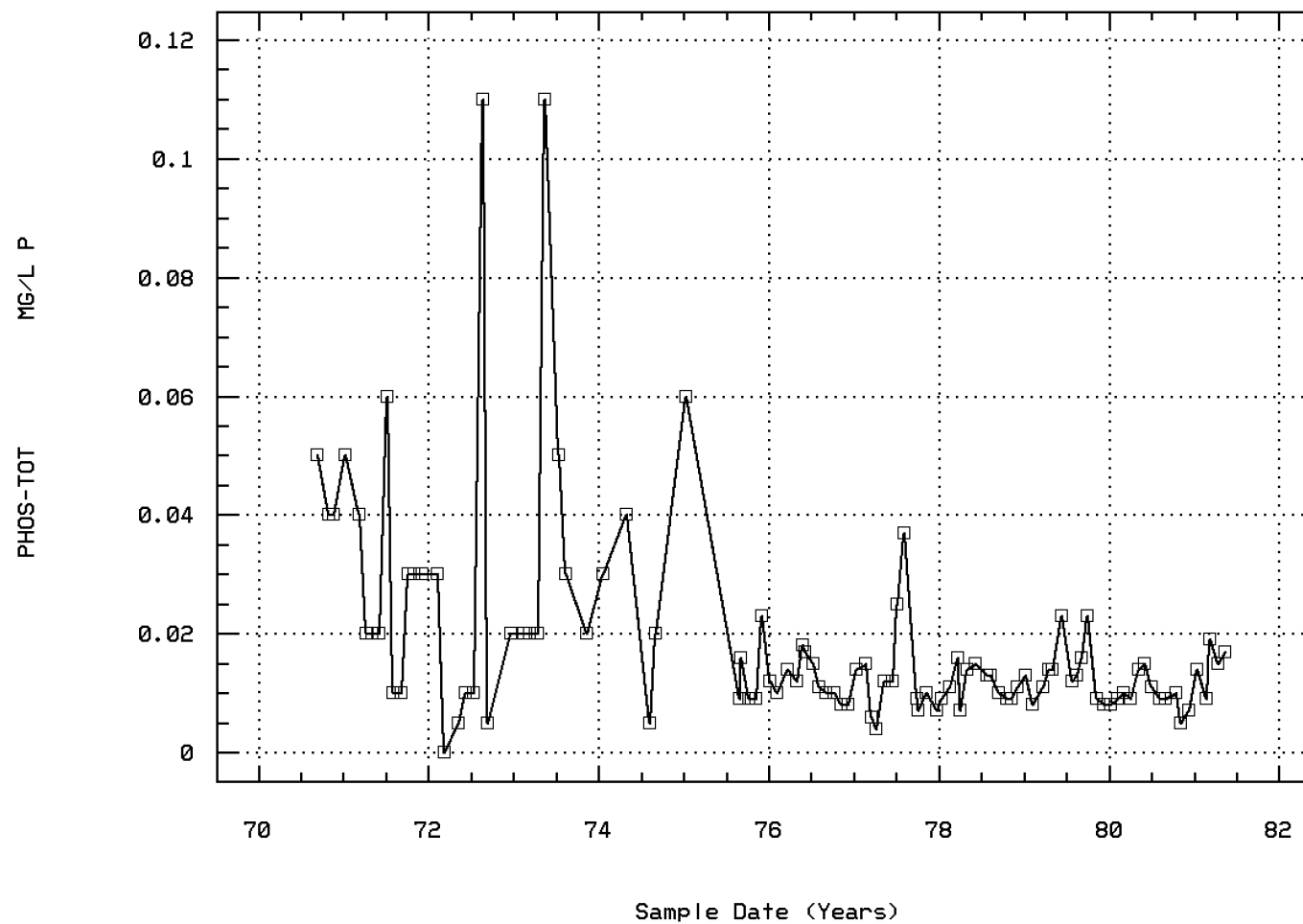
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00665

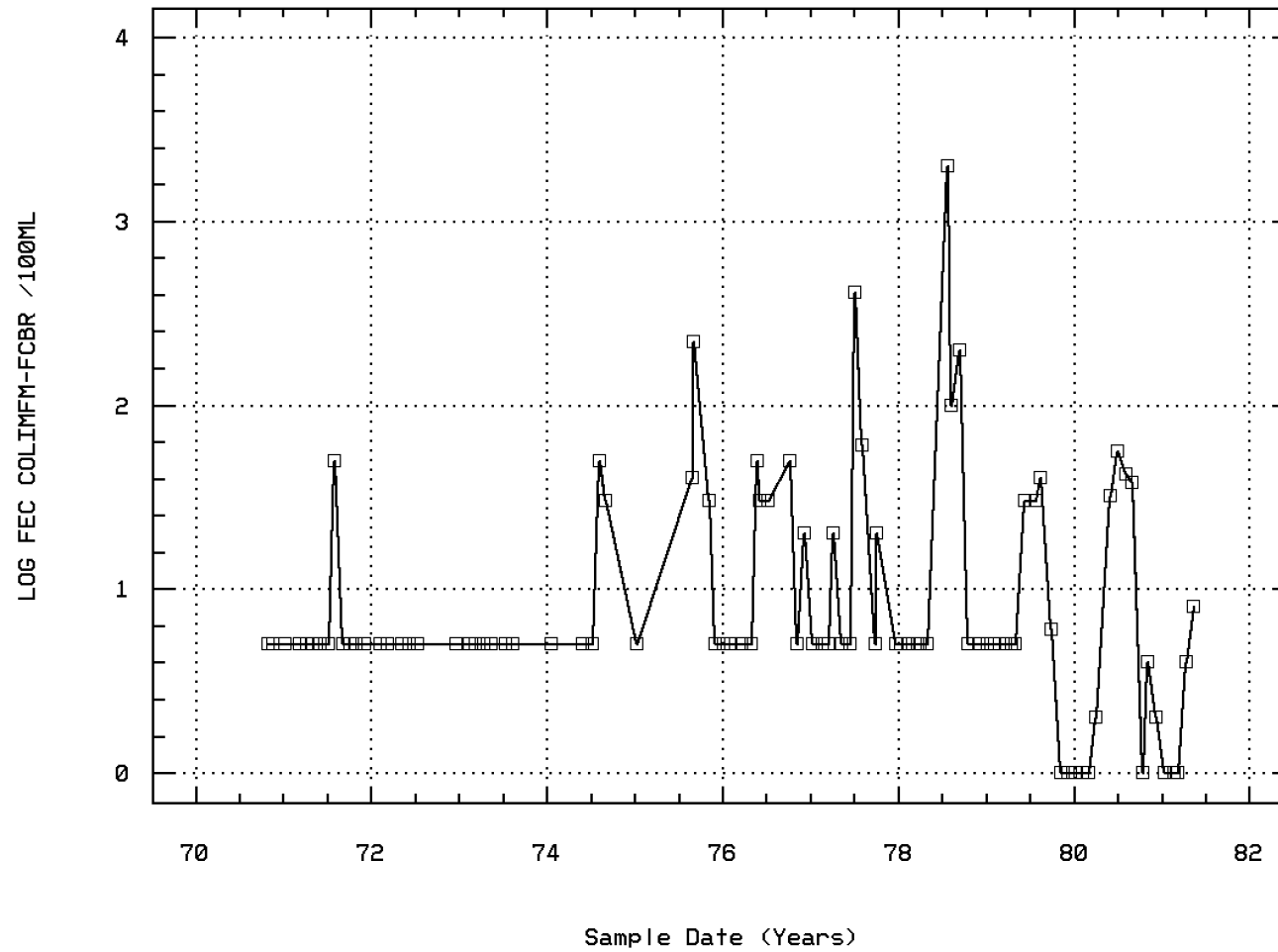
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 31616

LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Annual Analysis for 1970 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	3	9.	11.333	18.	7.	34.333	5.859	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	3	10.4	10.	10.8	8.8	1.12	1.058	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	3	1.2	1.333	1.8	1.	0.173	0.416	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	3	8.3	8.333	8.4	8.3	0.003	0.058	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	3	8.3	8.331	8.4	8.3	0.003	0.058	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	3	0.005	0.005	0.005	0.004	0.	0.001	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	3	7.	8.	13.	4.	21.	4.583	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	3	0.07	0.053	0.09	0.	0.002	0.047	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	3	0.04	0.043	0.05	0.04	0.	0.006	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	3 ##	5.	6.667	10.	5.	8.333	2.887	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	3 ##	0.699	0.799	1.	0.699	0.03	0.174	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		6.3									

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	11	11.	10.955	23.	2.	57.123	7.558	2.1	3.	17.5	22.6
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	11	10.6	10.618	13.	8.8	1.732	1.316	8.88	9.6	11.6	12.88
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	11	1.1	1.427	2.6	0.4	0.5	0.707	0.48	0.9	2.1	2.52
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	11	8.3	8.282	8.5	7.6	0.07	0.264	7.72	8.2	8.5	8.5
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	11	8.3	8.184	8.5	7.6	0.08	0.283	7.72	8.2	8.5	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	11	0.005	0.007	0.025	0.003	0.	0.006	0.003	0.003	0.006	0.021
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	11	7.	7.	18.	0.	21.8	4.669	0.4	5.	9.	16.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	11	0.02	0.022	0.07	0.	0.	0.021	0.	0.	0.03	0.064
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	11	0.03	0.029	0.06	0.01	0.	0.016	0.01	0.02	0.04	0.058
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	11 ##	5.	9.091	50.	5.	184.091	13.568	5.	5.	5.	41.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	11 ##	0.699	0.79	1.699	0.699	0.091	0.302	0.699	0.699	0.699	1.499
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		6.164									

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1972 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	8	13.75	11.463	22.	1.1	75.723	8.702	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	8	9.15	9.975	13.4	7.5	5.211	2.283	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	7	1.	1.264	2.8	0.25	0.742	0.862	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	7	8.2	8.1	8.4	7.5	0.08	0.283	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	7	8.2	7.997	8.4	7.5	0.092	0.304	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	7	0.006	0.01	0.032	0.004	0.	0.01	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	7	3.	3.143	8.	0.	9.476	3.078	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	8	0.015	0.019	0.04	0.005	0.	0.013	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	8	0.01	0.024	0.11	0.	0.001	0.036	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	8##	5.	6.25	10.	5.	5.357	2.315	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	8##	0.699	0.774	1.	0.699	0.019	0.139	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		5.946									
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	1	183.	183.	183.	183.	0.	0.	**	**	**	**
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1973 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	7	7.	9.786	21.5	0.	60.988	7.809	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	7	11.	11.143	13.6	9.4	1.943	1.394	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	7	1.9	1.886	3.8	0.8	1.025	1.012	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	7	8.1	8.086	8.4	7.8	0.051	0.227	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	7	8.1	8.037	8.4	7.8	0.054	0.233	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	7	0.008	0.009	0.016	0.004	0.	0.005	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	7	2.	2.286	5.	0.	2.571	1.604	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	7	0.02	0.036	0.08	0.02	0.001	0.024	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	7	0.02	0.039	0.11	0.02	0.001	0.033	**	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	7 ##	5.	5.714	10.	5.	3.571	1.89	**	**	**	**
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	7 ##	0.699	0.742	1.	0.699	0.013	0.114	**	**	**	**
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			5.52								
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	7	0.01	0.011	0.02	0.005	0.	0.007	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	6	15.25	14.917	23.5	2.5	49.342	7.024	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	3	1.7	1.5	2.	0.8	0.39	0.624	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	6	287.5	288.333	310.	270.	166.667	12.91	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	6	9.85	9.967	11.6	9.	0.915	0.956	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	3	1.3	1.133	1.6	0.5	0.323	0.569	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	6	8.1	8.017	8.3	7.5	0.082	0.286	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	6	8.1	7.924	8.3	7.5	0.092	0.303	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	6	0.008	0.012	0.032	0.005	0.	0.01	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	6	1.5	1.833	5.	0.5	2.867	1.693	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	6	0.02	0.022	0.04	0.01	0.	0.012	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	4	0.025	0.024	0.04	0.005	0.	0.015	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	6 ##	7.5	17.5	50.	5.	347.5	18.641	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	6 ##	0.849	1.046	1.699	0.699	0.195	0.442	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			11.105								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	6 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	6	8.5	10.	20.	3.	40.8	6.387	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	5	1.2	0.96	1.5	0.4	0.273	0.522	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	5	310.	299.	320.	275.	405.	20.125	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	5	9.6	9.84	12.8	8.2	3.428	1.851	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	5	1.	1.42	3.2	0.9	0.992	0.996	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	5	7.9	7.9	8.1	7.8	0.015	0.122	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	5	7.9	7.887	8.1	7.8	0.015	0.123	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	5	0.013	0.013	0.016	0.008	0.	0.003	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	5	207.	199.8	215.	183.	205.7	14.342	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	5	7.	5.4	7.	1.	6.8	2.608	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	5	0.22	0.214	0.37	0.09	0.01	0.102	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	6	0.028	0.025	0.042	0.007	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	5	0.14	0.162	0.23	0.12	0.002	0.044	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	6	0.013	0.021	0.06	0.009	0.	0.02	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/75-05/12/81	5	4.	4.	5.	3.	1.	1.	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	5	3.3	3.3	3.6	2.9	0.075	0.274	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	6	20.	51.667	220.	5.	7006.667	83.706	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	6	1.239	1.303	2.342	0.699	0.404	0.636	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	6	1.239	1.303	2.342	0.699	0.404	0.636	**	**	**
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	5	201.	194.4	208.	179.	169.3	13.012	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	6	0.005	0.004	0.008	0.001	0.	0.002	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1976 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	12	8.75	9.833	21.	0.5	50.333	7.095	0.95	3.5	15.25
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	1.05	1.45	4.9	0.7	1.359	1.166	0.73	0.8	1.475
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	300.	300.	320.	280.	154.545	12.432	281.5	290.	310.
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	12	10.15	10.625	13.3	8.1	3.513	1.874	8.37	9.025	12.3
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	12	0.8	1.233	2.7	0.25	0.773	0.879	0.25	0.55	2.05
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.1	8.075	8.3	7.8	0.02	0.142	7.83	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.1	8.053	8.3	7.8	0.021	0.144	7.83	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	12	0.008	0.009	0.016	0.005	0.	0.003	0.005	0.006	0.01
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	12	198.5	199.25	209.	183.	63.841	7.99	186.	193.25	207.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	12	3.5	4.167	11.	1.	9.242	3.04	1.	2.	5.75
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.21	0.223	0.32	0.13	0.002	0.05	0.148	0.2	0.26
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	12	0.019	0.019	0.04	0.004	0.	0.012	0.004	0.009	0.028
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.17	0.185	0.33	0.1	0.005	0.073	0.103	0.123	0.245
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.012	0.012	0.018	0.008	0.	0.003	0.008	0.01	0.015
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/75-05/12/81	12	3.	2.667	3.	2.	0.242	0.492	2.	2.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	12	2.95	2.85	3.5	2.1	0.259	0.509	2.16	2.325	3.275
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	12	10.	18.75	50.	5.	300.568	17.337	5.	5.	30.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	12	1.	1.096	1.699	0.699	0.17	0.412	0.699	0.699	1.477
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	12	1.	1.096	1.699	0.699	0.17	0.412	0.699	0.699	1.477
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	195.	195.083	208.	182.	67.174	8.196	182.9	188.25	202.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	12	0.002	0.003	0.007	0.001	0.	0.002	0.001	0.001	0.004

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Annual Analysis for 1977 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	12	9.	9.5	20.	0.	49.364	7.026	0.9	3.25	16.75
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	1.05	1.275	3.2	0.6	0.497	0.705	0.6	0.9	1.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	305.	299.583	315.	275.	206.629	14.375	275.	286.25	310.
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	12	10.3	10.675	13.1	7.9	3.068	1.751	8.08	9.525	12.3
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	12	1.25	1.192	2.1	0.25	0.42	0.648	0.25	0.625	1.7
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.3	8.292	8.6	8.1	0.023	0.151	8.1	8.2	8.375
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.3	8.27	8.6	8.1	0.023	0.152	8.1	8.2	8.375
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	12	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	12	200.	198.25	208.	185.	67.295	8.203	185.3	189.5	204.75
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	12	3.	3.5	9.	0.5	8.045	2.836	0.5	1.	6.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.215	0.234	0.36	0.18	0.003	0.057	0.18	0.19	0.278
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	12	0.016	0.021	0.055	0.003	0.	0.017	0.003	0.007	0.037
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.145	0.194	0.36	0.1	0.007	0.086	0.106	0.13	0.268
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.011	0.013	0.037	0.004	0.	0.009	0.005	0.007	0.015
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/75-05/12/81	12	3.	2.667	3.	2.	0.242	0.492	2.	2.	3.

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Annual Analysis for 1977 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	12	3.3	3.217	3.7	2.6	0.114	0.338	2.63	2.9	3.4	3.64
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	12 ##	5.	46.25	410.	5.	13373.295	115.643	5.	5.	20.	305.
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	12 ##	0.699	1.074	2.613	0.699	0.36	0.6	0.699	0.699	1.301	2.362
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			11.853								
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	198.	194.833	205.	179.	89.424	9.456	179.	185.75	202.	204.1
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	12	0.002	0.002	0.006	0.001	0.	0.001	0.001	0.001	0.003	0.005

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Annual Analysis for 1978 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	12	8.	9.542	21.5	1.	53.703	7.328	1.6	3.	17.5	20.75
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	1.	1.1	3.	0.3	0.429	0.655	0.42	0.8	1.2	2.49
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	310.	310.	330.	285.	159.091	12.613	288.	301.25	318.75	328.5
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	12	11.45	11.242	13.5	8.5	2.748	1.658	8.74	9.55	12.575	13.35
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	12	1.3	1.333	2.	0.7	0.233	0.483	0.73	0.85	1.875	2.
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.1	8.083	8.7	7.4	0.107	0.327	7.49	8.	8.2	8.61
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.089	7.962	8.7	7.4	0.123	0.351	7.49	8.	8.2	8.61
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	12	0.008	0.011	0.04	0.002	0.	0.01	0.003	0.006	0.01	0.034
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	12	204.	203.167	214.	190.	59.606	7.72	190.6	197.	209.	214.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	12	1.	1.708	5.	0.5	1.884	1.373	0.5	0.625	2.75	4.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.255	0.246	0.32	0.18	0.002	0.049	0.18	0.188	0.28	0.314
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	12	0.014	0.018	0.039	0.005	0.	0.013	0.005	0.007	0.032	0.039
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.21	0.202	0.3	0.09	0.006	0.078	0.096	0.133	0.285	0.3
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.011	0.011	0.016	0.007	0.	0.003	0.008	0.009	0.014	0.016
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/75-05/12/81	12	3.	2.833	3.	2.	0.152	0.389	2.	3.	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	12	3.25	3.092	3.6	2.5	0.184	0.429	2.5	2.6	3.475	3.57
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	12 ##	5.	196.25	2000.	5.	326200.568	571.14	5.	5.	77.5	1460.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	12 ##	0.699	1.208	3.301	0.699	0.737	0.858	0.699	0.699	1.75	3.001
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			16.14								
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	202.	201.583	214.	185.	66.447	8.152	187.1	195.75	207.25	213.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	12	0.002	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.003	0.004

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Annual Analysis for 1979 - Station SLBE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	12	8.	9.458	19.5	0.	51.157	7.152	0.	3.25	16.75	19.05
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	0.95	0.933	2.3	0.3	0.288	0.537	0.3	0.6	1.15	2.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	292.5	299.167	320.	285.	149.242	12.216	286.5	290.	312.5	318.5
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	12	10.75	10.892	12.7	8.5	1.917	1.385	8.77	9.8	12.075	12.7
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	12	1.25	1.267	1.8	0.6	0.164	0.405	0.6	1.025	1.6	1.8
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.1	8.167	8.5	7.9	0.037	0.192	7.9	8.025	8.3	8.47
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.1	8.129	8.5	7.9	0.039	0.196	7.9	8.025	8.3	8.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	12	0.008	0.007	0.013	0.003	0.	0.003	0.003	0.005	0.009	0.013
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	12	195.	197.917	214.	189.	66.992	8.185	189.	192.	204.5	212.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	12	3.	3.625	9.	0.5	8.869	2.978	0.65	1.	6.75	8.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.295	0.311	0.43	0.22	0.005	0.068	0.22	0.27	0.375	0.418
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	12	0.018	0.019	0.059	0.002	0.	0.017	0.002	0.007	0.022	0.054
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.2	0.191	0.32	0.1	0.006	0.078	0.1	0.11	0.255	0.311
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.013	0.014	0.023	0.008	0.	0.005	0.008	0.01	0.016	0.023
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/75-05/12/81	12	2.5	2.5	3.	2.	0.273	0.522	2.	2.	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	12	3.25	3.083	3.7	2.6	0.172	0.415	2.6	2.6	3.4	3.61

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Annual Analysis for 1979 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	12 ##	5.	11.917	40.	1.	178.083	13.345	1.	5.	37.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	12 ##	0.699	0.819	1.602	0.	0.266	0.516	0.	0.699	1.565
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	12	GEOMETRIC MEAN =	6.593							
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	190.	194.333	208.	185.	67.515	8.217	185.9	188.	207.1
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	12	0.001	0.002	0.012	0.001	0.	0.003	0.001	0.001	0.01

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Annual Analysis for 1980 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	12	8.	9.792	21.	0.	53.566	7.319	0.45	2.375	20.4
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	12	0.8	0.733	1.1	0.4	0.077	0.277	0.4	0.425	1.07
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	12	305.	303.75	315.	290.	59.659	7.724	291.5	296.25	313.5
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	12	11.55	11.308	13.4	9.3	2.444	1.563	9.36	9.75	13.28
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	12	1.5	1.542	3.3	0.7	0.619	0.787	0.7	0.825	3.03
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.35	8.25	8.5	7.8	0.052	0.228	7.86	8.025	8.5
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	12	8.347	8.191	8.5	7.8	0.056	0.236	7.86	8.025	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	12	0.004	0.006	0.016	0.003	0.	0.004	0.003	0.004	0.014
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	12	202.5	202.167	219.	192.	57.242	7.566	192.	196.	215.7
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	12	3.	4.667	21.	1.	31.152	5.581	1.	2.	17.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	12	0.26	0.28	0.4	0.2	0.004	0.062	0.203	0.228	0.385
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	12	0.01	0.013	0.027	0.002	0.	0.009	0.003	0.007	0.026
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	12	0.195	0.192	0.29	0.09	0.005	0.071	0.093	0.12	0.287
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.009	0.01	0.015	0.005	0.	0.003	0.006	0.008	0.015
00940	CHLORIDE, TOTAL IN WATER MG/L	08/26/75-05/12/81	12	3.	2.583	3.	2.	0.265	0.515	2.	3.	3.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	12	3.2	3.017	3.5	2.	0.207	0.455	2.18	2.625	3.5
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	11	2.	16.364	56.	1.	445.055	21.096	1.	38.	53.2
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	11	0.301	0.696	1.748	0.	0.566	0.752	0.	1.58	1.723
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	11	GEOMETRIC MEAN =	4.971							
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	12	198.	197.667	206.	189.	26.424	5.14	189.9	192.75	204.8
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	12 ##	0.001	0.001	0.002	0.001	0.	0.	0.001	0.001	0.002

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	5	5.	6.5	13.5	2.	21.125	4.596	**	**	**
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	5	0.6	0.78	1.4	0.4	0.172	0.415	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	5	305.	306.	320.	295.	80.	8.944	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	5	12.2	11.98	13.2	10.7	0.922	0.96	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	5	1.	0.95	1.4	0.25	0.18	0.424	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	5	8.1	8.16	8.5	8.	0.043	0.207	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	5	8.1	8.126	8.5	8.	0.044	0.211	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	5	0.008	0.007	0.01	0.003	0.	0.003	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/26/75-05/12/81	5	201.	202.2	213.	196.	43.7	6.611	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	5	4.	3.6	5.	1.	2.8	1.673	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	5	0.23	0.216	0.3	0.12	0.004	0.067	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	5	0.017	0.019	0.029	0.013	0.	0.006	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/75-05/12/81	5	0.25	0.24	0.3	0.14	0.004	0.062	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	5	0.015	0.015	0.019	0.009	0.	0.004	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/26/75-05/12/81	5	3.	2.8	3.	2.	0.2	0.447	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/26/75-05/12/81	5	3.2	3.14	3.3	2.7	0.063	0.251	**	**	**
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	5 ##	1.	3.	8.	1.	9.5	3.082	**	**	**

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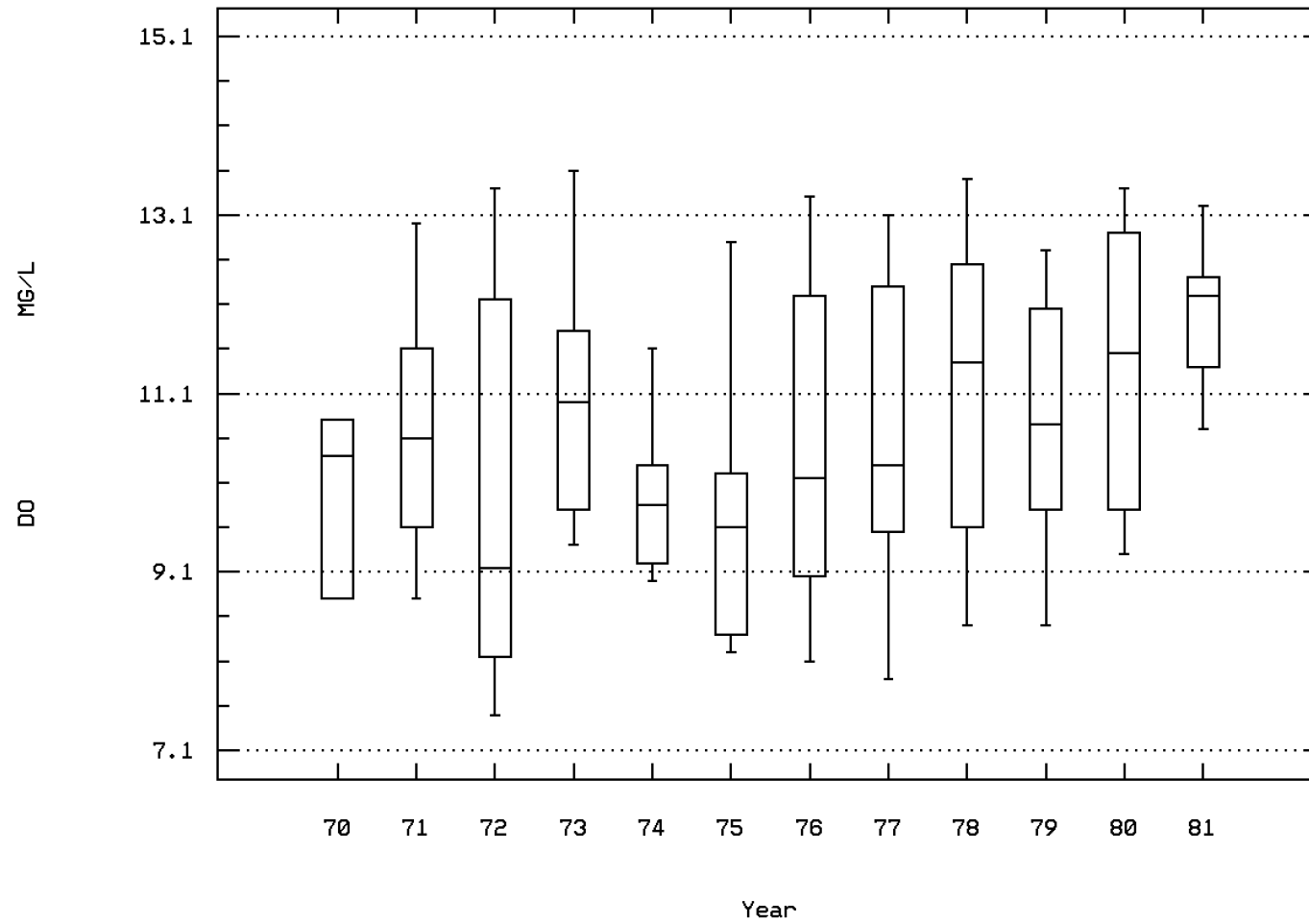
Annual Analysis for 1981 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	5 ##	0.	0.301	0.903	0.	0.181	0.426	**	**	**	**
31616p GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			2.								
47004 SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	5	198.	198.8	208.	192.	33.2	5.762	**	**	**	**
70507 PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	5	0.001	0.002	0.003	0.001	0.	0.001	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0025 Parameter Code: 00300

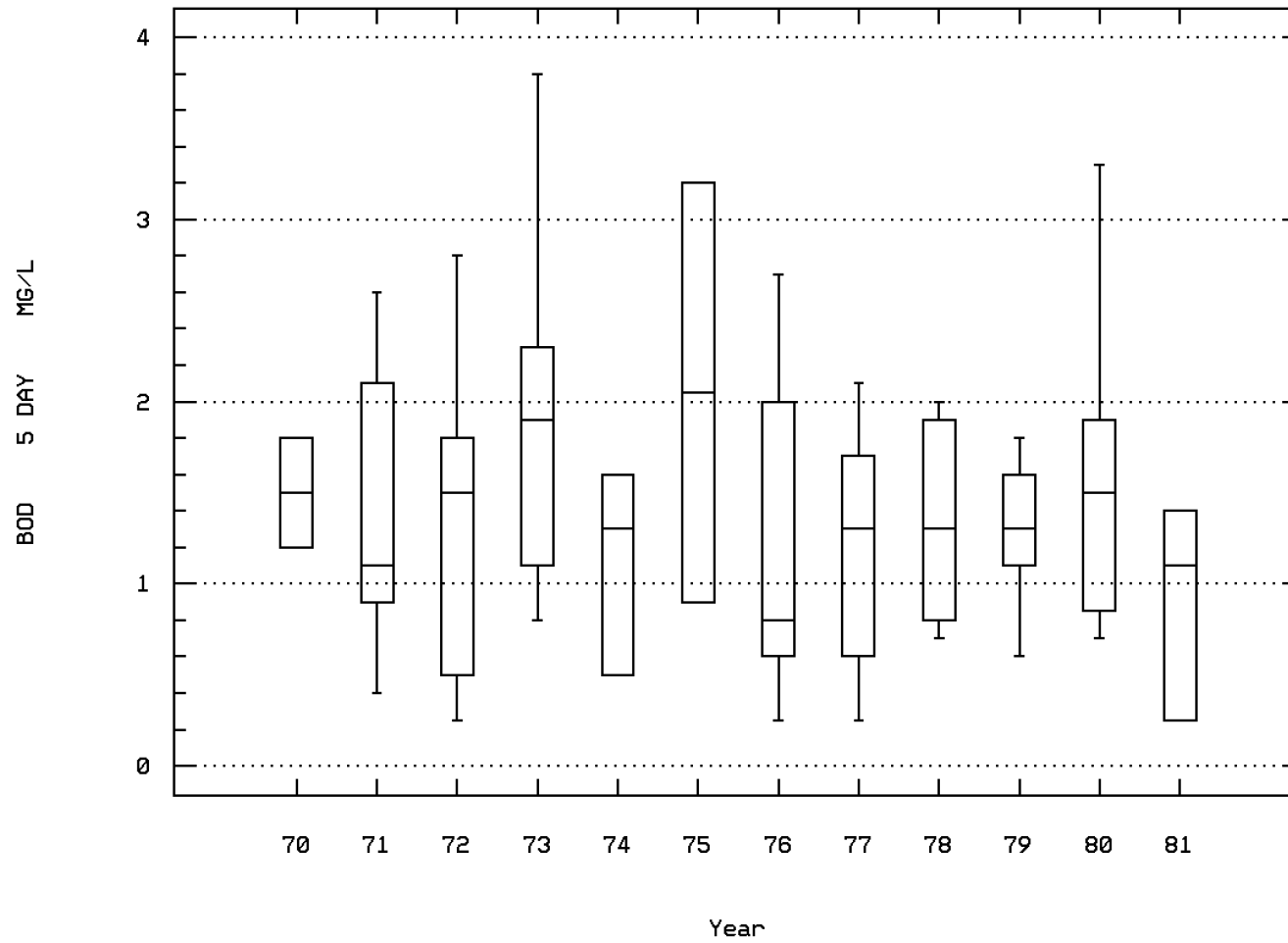
OXYGEN, DISSOLVED



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00310

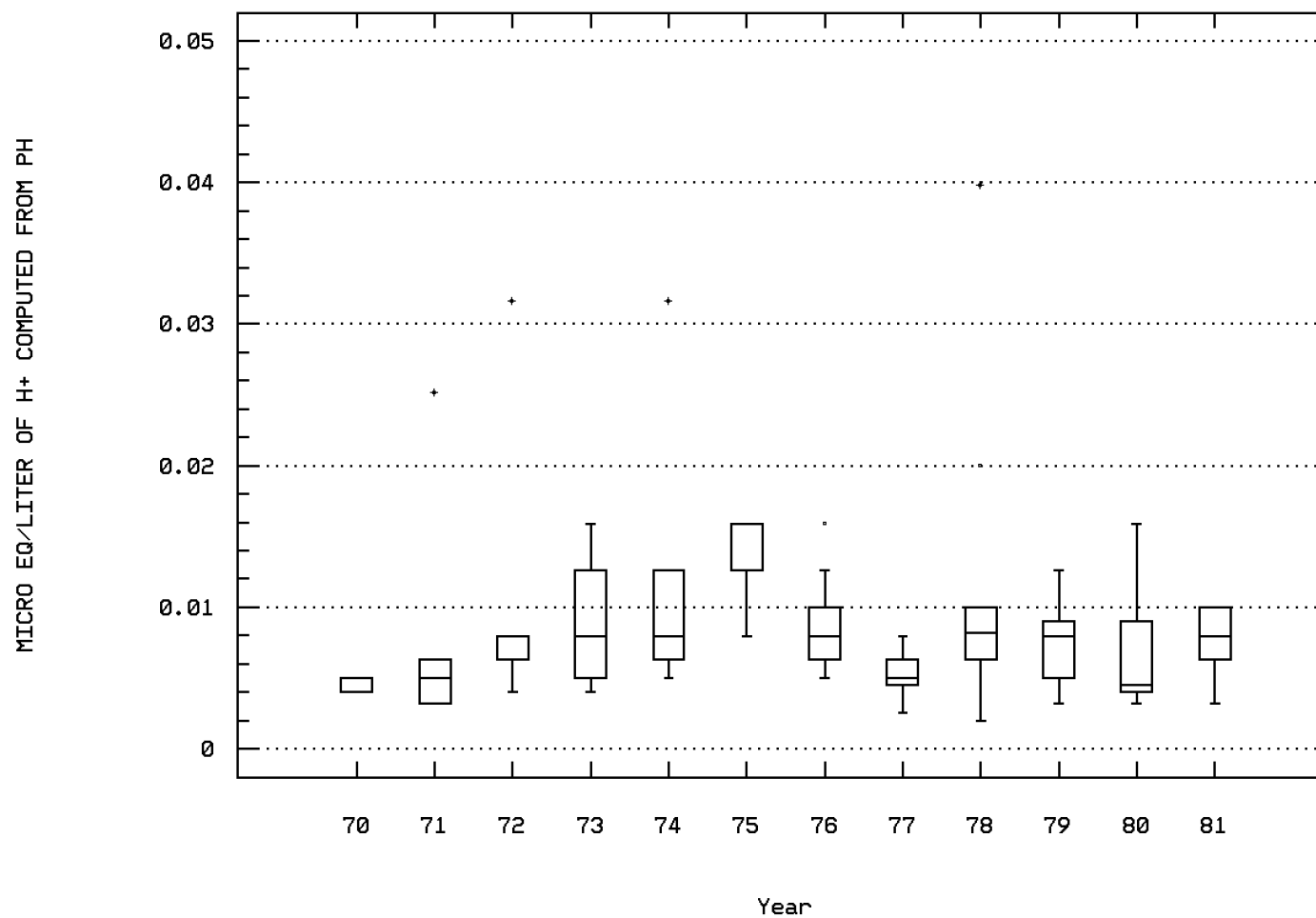
BOD, 5 DAY, 20 DEG C



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00400

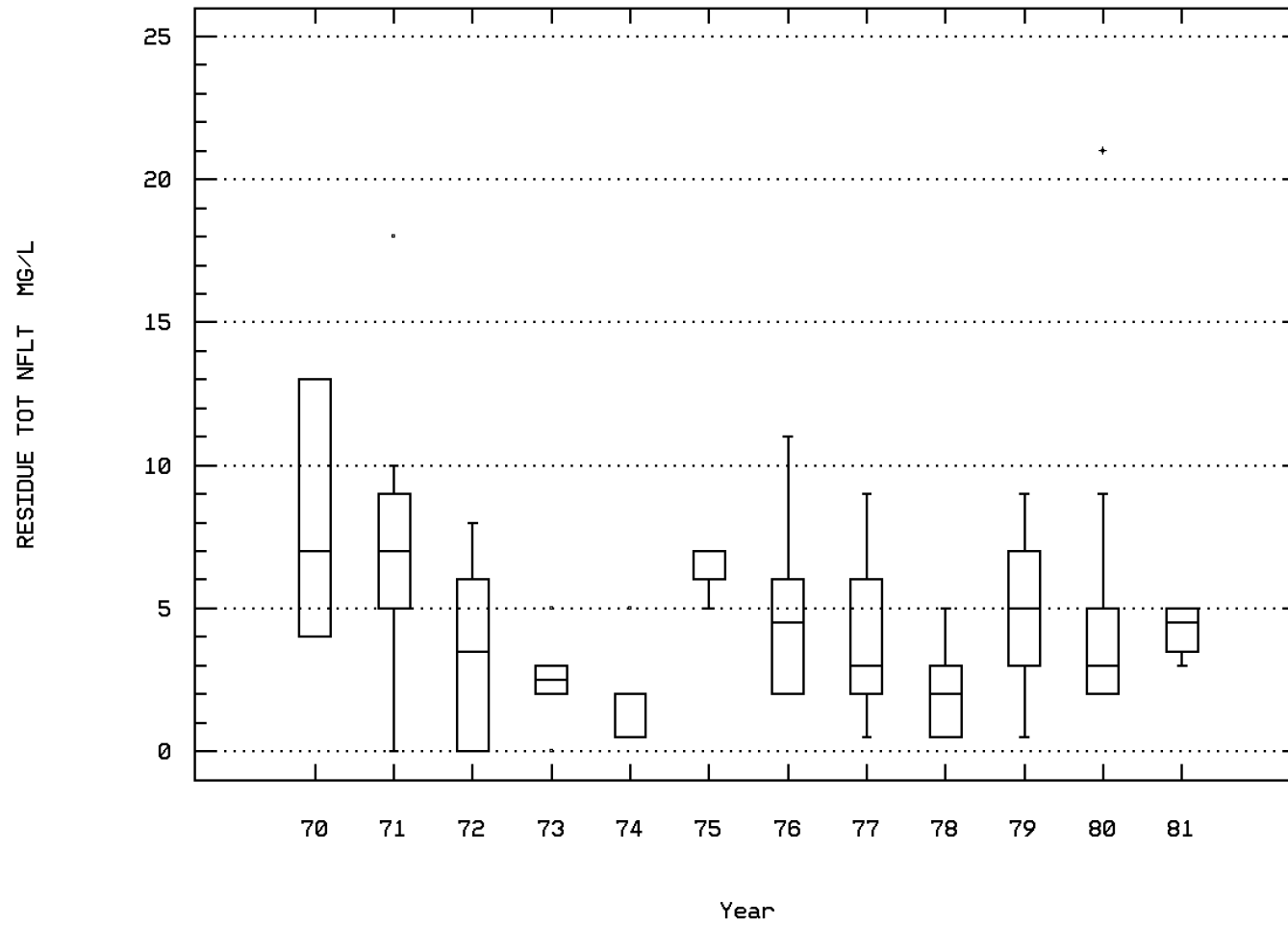
MICRO EQ/LITER OF H+ COMPUTED FROM PH



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00530

RESIDUE, TOTAL NONFILTRABLE (MG/L)

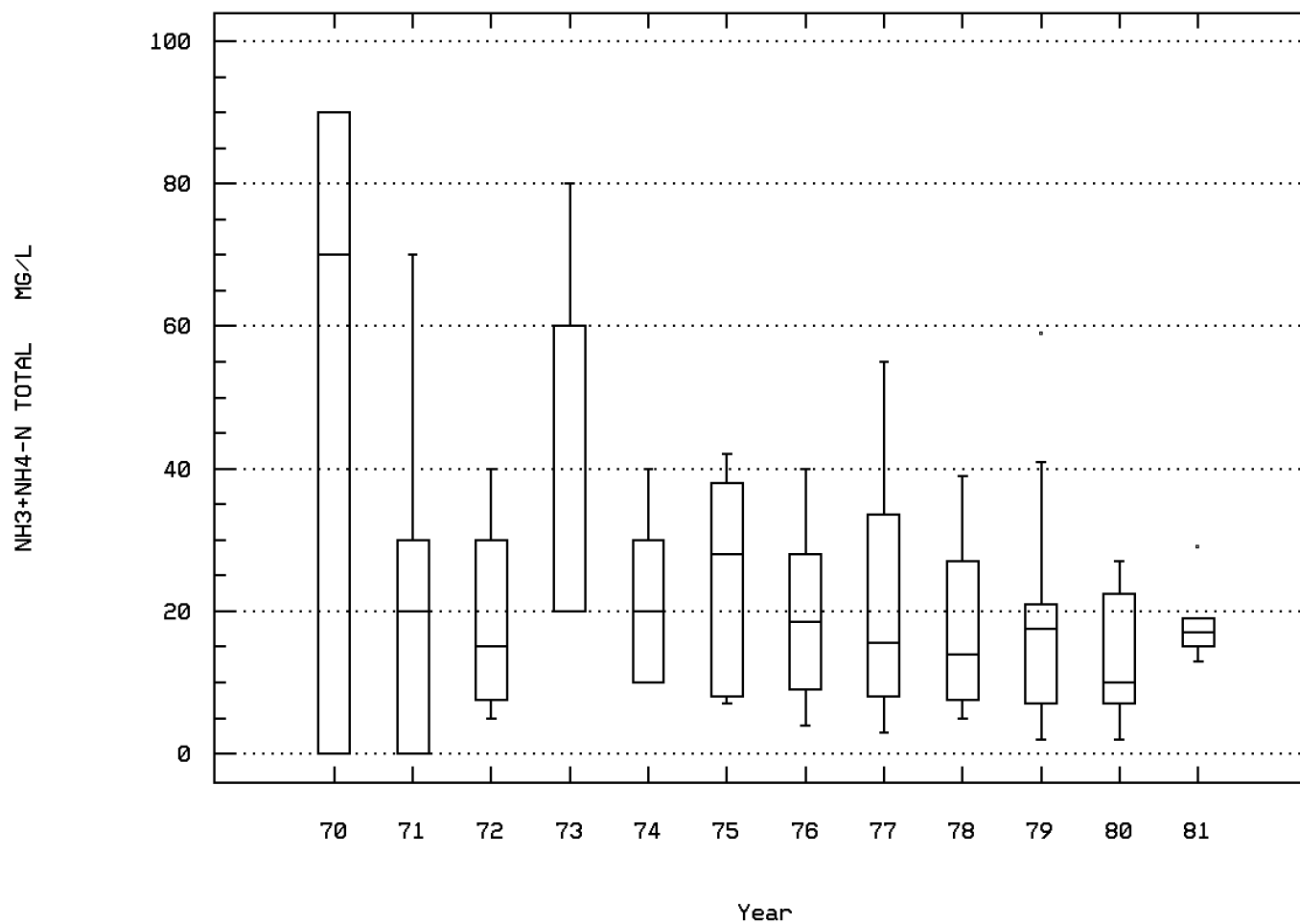


PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00610

NITROGEN, AMMONIA, TOTAL (MG/L AS N)

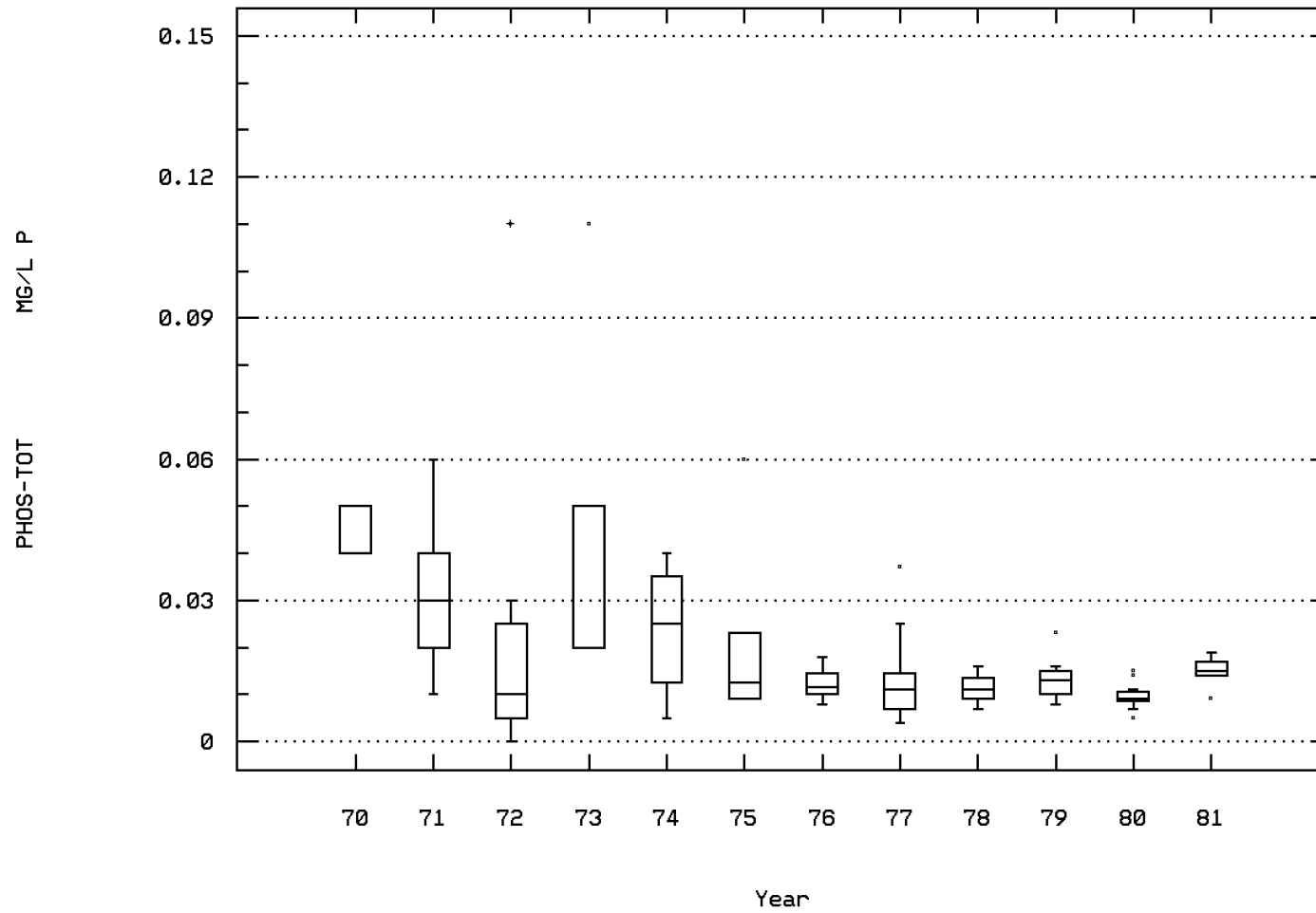
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PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00665

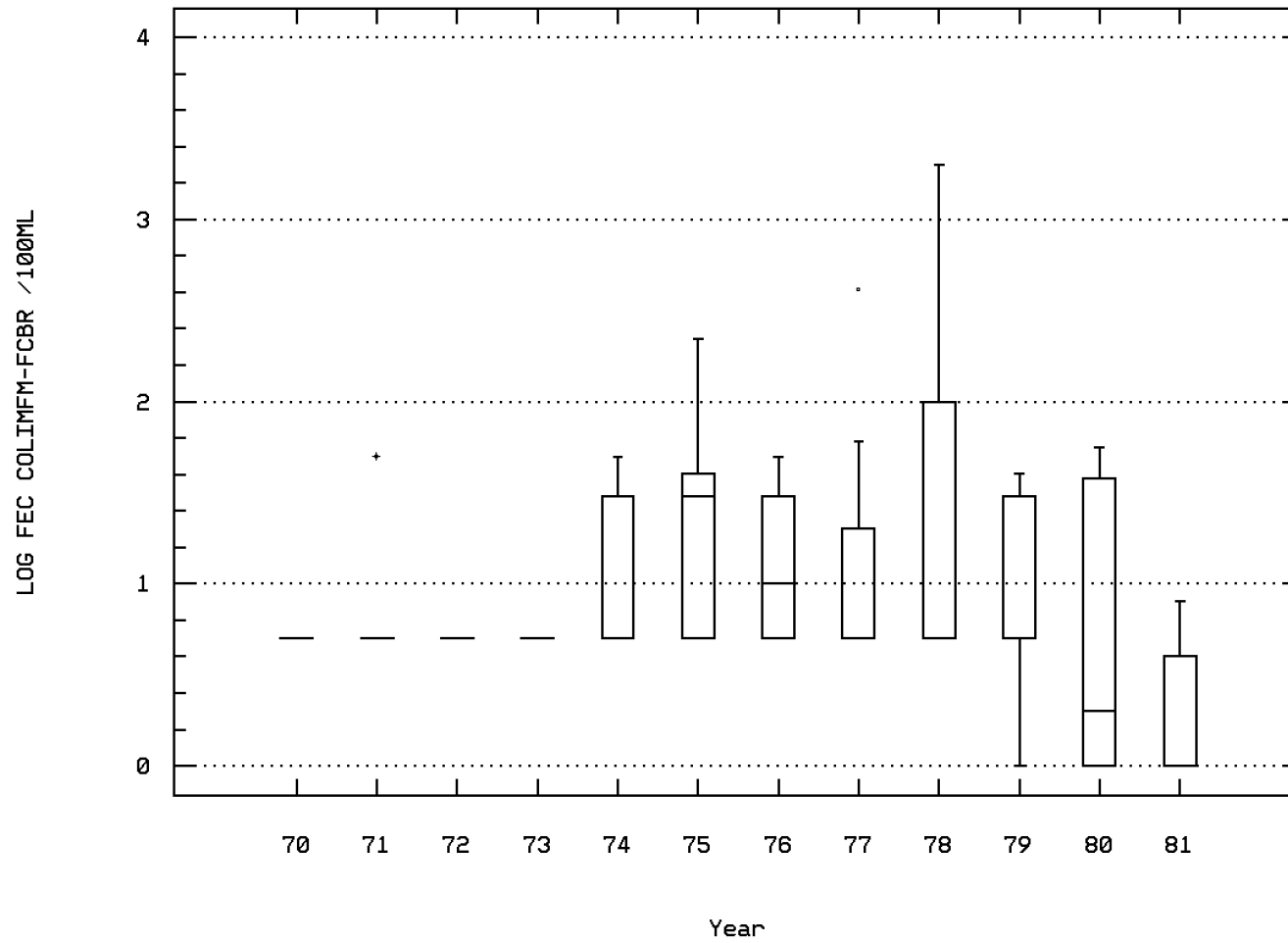
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 31616

LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	37	15.	13.865	21.5	5.	24.703	4.97	7.	9.	21.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	26	0.9	0.919	1.7	0.3	0.118	0.343	0.4	0.75	1.36
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	27	305.	298.704	320.	275.	179.986	13.416	279.	285.	316.
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	37	9.7	9.838	12.	7.7	1.037	1.018	8.48	9.2	11.22
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	36	1.	1.168	3.3	0.25	0.444	0.667	0.25	0.8	2.1
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	36	8.2	8.192	8.5	7.8	0.038	0.195	7.9	8.1	8.4
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	36	8.2	8.147	8.5	7.8	0.04	0.2	7.9	8.1	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	36	0.006	0.007	0.016	0.003	0.	0.003	0.004	0.004	0.013
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	36	3.	3.972	21.	0.	17.442	4.176	0.85	1.	7.3
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	25	0.22	0.239	0.38	0.09	0.004	0.065	0.176	0.195	0.338
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	37	0.007	0.017	0.09	0.	0.001	0.023	0.	0.004	0.061
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	37	0.01	0.018	0.11	0.005	0.	0.019	0.007	0.009	0.04
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	37	10.	30.459	220.	1.	2362.755	48.608	4.8	5.	68.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	37	1.	1.131	2.342	0.	0.304	0.551	0.68	0.699	1.823
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.525							
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	25	198.	194.64	208.	179.	79.823	8.934	180.8	186.5	201.5
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	29	0.002	0.003	0.02	0.001	0.	0.004	0.001	0.001	0.008

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	25	2.5	2.164	5.	0.	2.36	1.536	0.	0.75	4.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	18	0.75	1.022	3.	0.3	0.497	0.705	0.39	0.575	2.37
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	19	310.	311.842	330.	295.	50.585	7.112	305.	310.	320.
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	24	12.85	12.742	13.6	10.8	0.425	0.652	11.8	12.4	13.45
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	23	1.7	1.624	3.8	0.25	0.793	0.89	0.52	0.9	3.
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	24	8.1	8.075	8.3	7.5	0.038	0.194	7.85	8.	8.3
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	24	8.1	8.027	8.3	7.5	0.04	0.2	7.85	8.	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	24	0.008	0.009	0.032	0.005	0.	0.006	0.005	0.006	0.014
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	24	2.	3.396	18.	0.	14.956	3.867	0.5	1.	7.5
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	18	0.225	0.253	0.43	0.13	0.006	0.077	0.175	0.188	0.376
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	25	0.034	0.034	0.07	0.009	0.	0.013	0.019	0.024	0.048
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	25	0.012	0.017	0.06	0.007	0.	0.014	0.008	0.009	0.038
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	25 ##	5.	4.68	20.	1.	12.977	3.602	1.	3.5	5.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-05/12/81	25 ##	0.699	0.567	1.301	0.	0.105	0.325	0.	0.5	0.699
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.693							
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	18	202.	203.056	214.	192.	21.82	4.671	197.4	202.	208.6
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	21	0.003	0.003	0.006	0.001	0.	0.002	0.001	0.001	0.005

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	15	4.	4.34	8.5	1.1	4.834	2.199	1.64	3.	8.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	10	0.75	0.76	1.2	0.3	0.127	0.357	0.31	0.4	1.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	10	305.	304.	320.	285.	132.222	11.499	285.5	293.75	319.5
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	15	12.	11.807	12.9	7.5	1.589	1.261	9.84	11.6	12.72
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	14	1.25	1.5	2.5	0.8	0.294	0.542	0.9	1.1	2.4
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	15	8.1	8.053	8.5	7.4	0.108	0.329	7.52	7.8	8.5
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	15	8.1	7.93	8.5	7.4	0.125	0.353	7.52	7.8	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	15	0.008	0.012	0.04	0.003	0.	0.01	0.003	0.005	0.031
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	15	2.	3.	9.	0.	7.107	2.666	0.3	1.	8.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	10	0.225	0.221	0.3	0.12	0.003	0.052	0.126	0.188	0.255	0.297
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	15	0.022	0.025	0.06	0.01	0.	0.013	0.016	0.03	0.048	
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	15	0.014	0.014	0.04	0.	0.	0.01	0.002	0.007	0.02	0.028
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	15 ##	5.	5.2	20.	1.	19.029	4.362	1.	4.	5.	11.
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	15 ##	0.699	0.613	1.301	0.	0.1	0.316	0.	0.602	0.699	0.94
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			4.101								
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	10	198.	197.6	208.	185.	58.489	7.648	185.3	191.	205.	207.7
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	12	0.002	0.003	0.01	0.001	0.	0.003	0.001	0.001	0.004	0.009

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

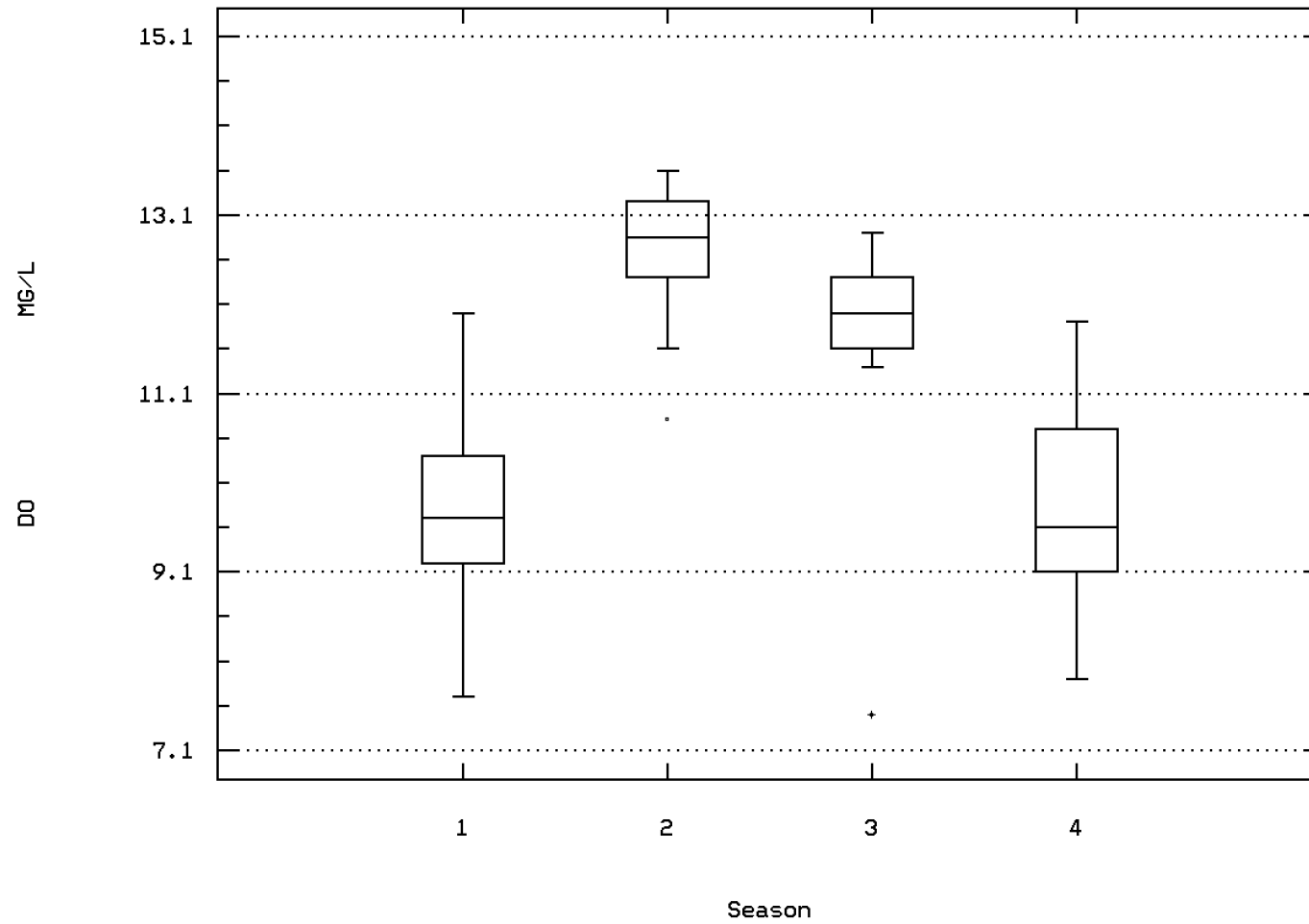
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	29	14.5	15.241	23.5	6.	27.886	5.281	6.5	11.5	19.75	22.
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-05/12/81	19	1.2	1.537	4.9	0.7	1.017	1.008	0.8	1.	1.8	3.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-05/12/81	21	290.	293.571	325.	270.	137.857	11.741	277.	290.	300.	309.
00300p	OXYGEN, DISSOLVED MG/L	09/08/70-05/12/81	29	9.6	9.776	11.9	7.9	1.105	1.051	8.5	9.05	10.7	11.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/08/70-05/12/81	28	1.3	1.264	2.8	0.5	0.349	0.591	0.59	0.7	1.675	2.02
00400p	PH (STANDARD UNITS)	09/08/70-05/12/81	29	8.2	8.231	8.7	7.5	0.063	0.251	8.	8.1	8.45	8.5
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-05/12/81	29	8.2	8.153	8.7	7.5	0.069	0.263	8.	8.1	8.45	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-05/12/81	29	0.006	0.007	0.032	0.002	0.	0.005	0.003	0.004	0.008	0.01
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-05/12/81	29	5.	4.741	11.	0.	8.118	2.849	1.	2.5	6.5	9.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-05/12/81	18	0.275	0.291	0.4	0.21	0.003	0.057	0.219	0.248	0.33	0.391
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-05/12/81	29	0.013	0.014	0.03	0.005	0.	0.006	0.007	0.01	0.02	0.02
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	27	0.015	0.022	0.11	0.005	0.	0.021	0.01	0.012	0.02	0.052
31616p	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	28 ##	5.	99.143	2000.	5.	144585.312	380.244	5.	5.	30.	91.4
31616p	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	09/08/70-05/12/81	28 ##	0.699	1.102	3.301	0.699	0.418	0.646	0.699	0.699	1.477	1.835
31616p	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			12.653								
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-05/12/81	18	190.5	191.889	211.	179.	52.928	7.275	184.4	188.	195.75	202.9
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-05/12/81	23	0.001	0.004	0.02	0.001	0.	0.005	0.001	0.001	0.005	0.01

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0025 Parameter Code: 00300

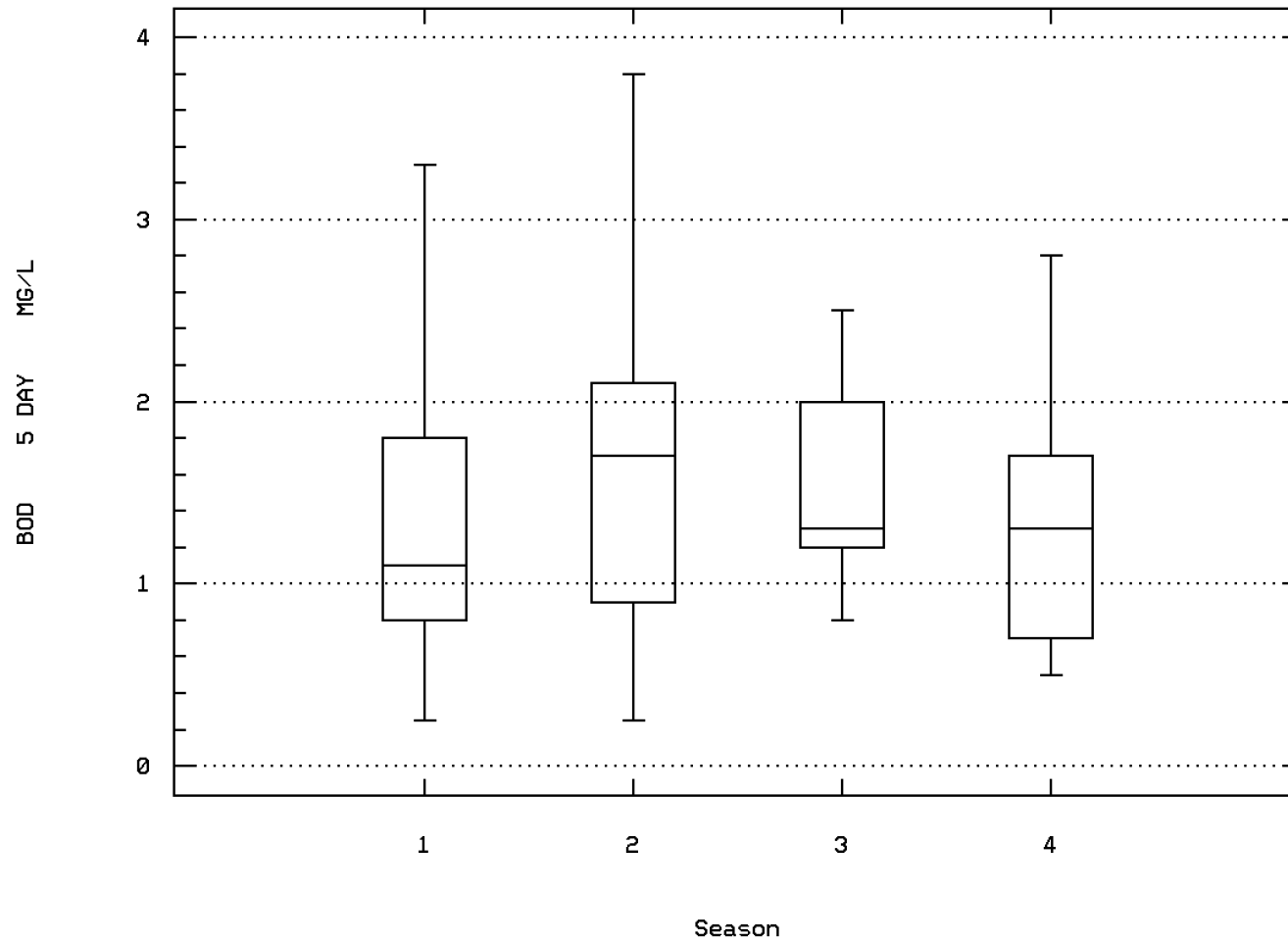
OXYGEN, DISSOLVED



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00310

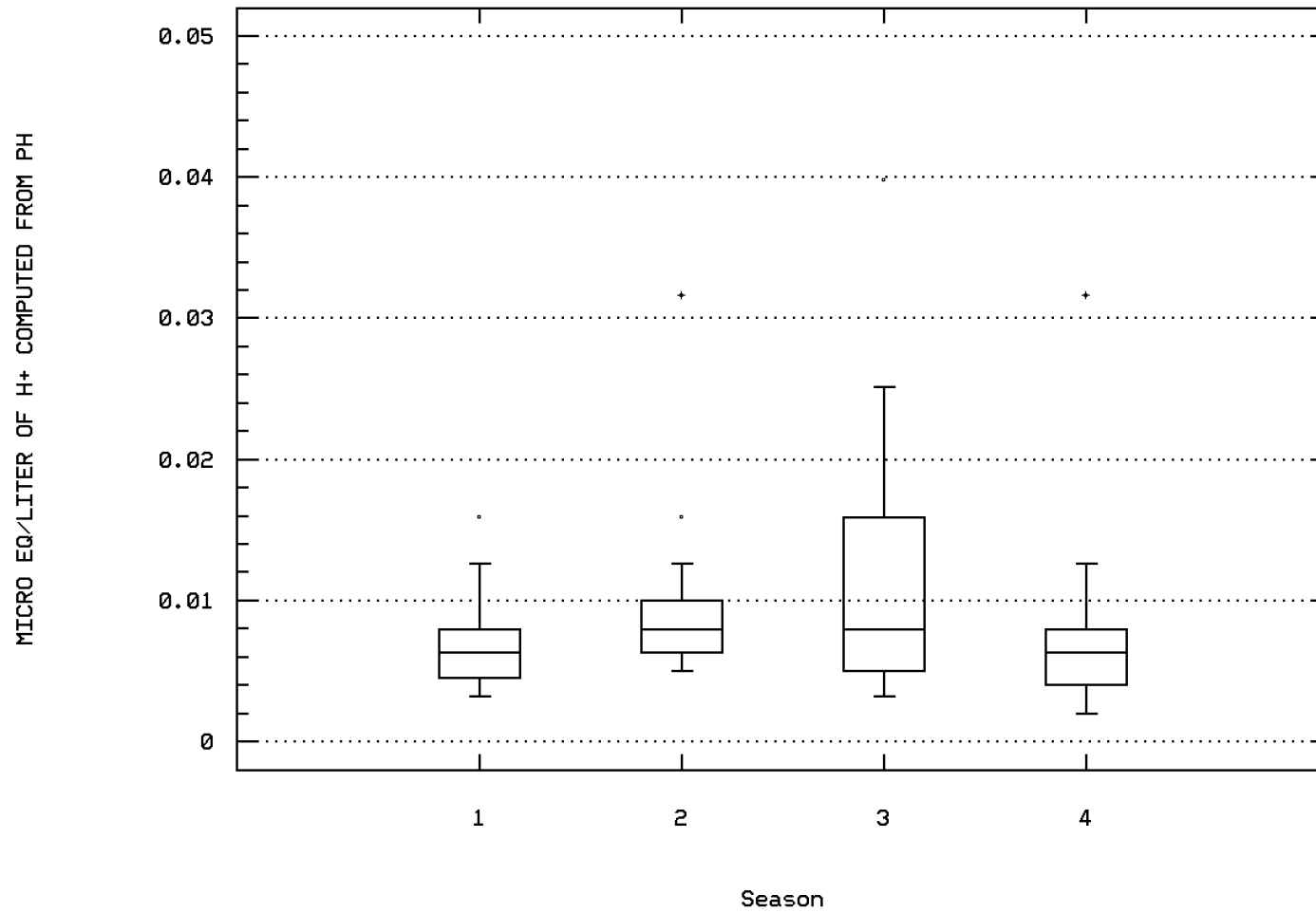
BOD, 5 DAY, 20 DEG C



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00400

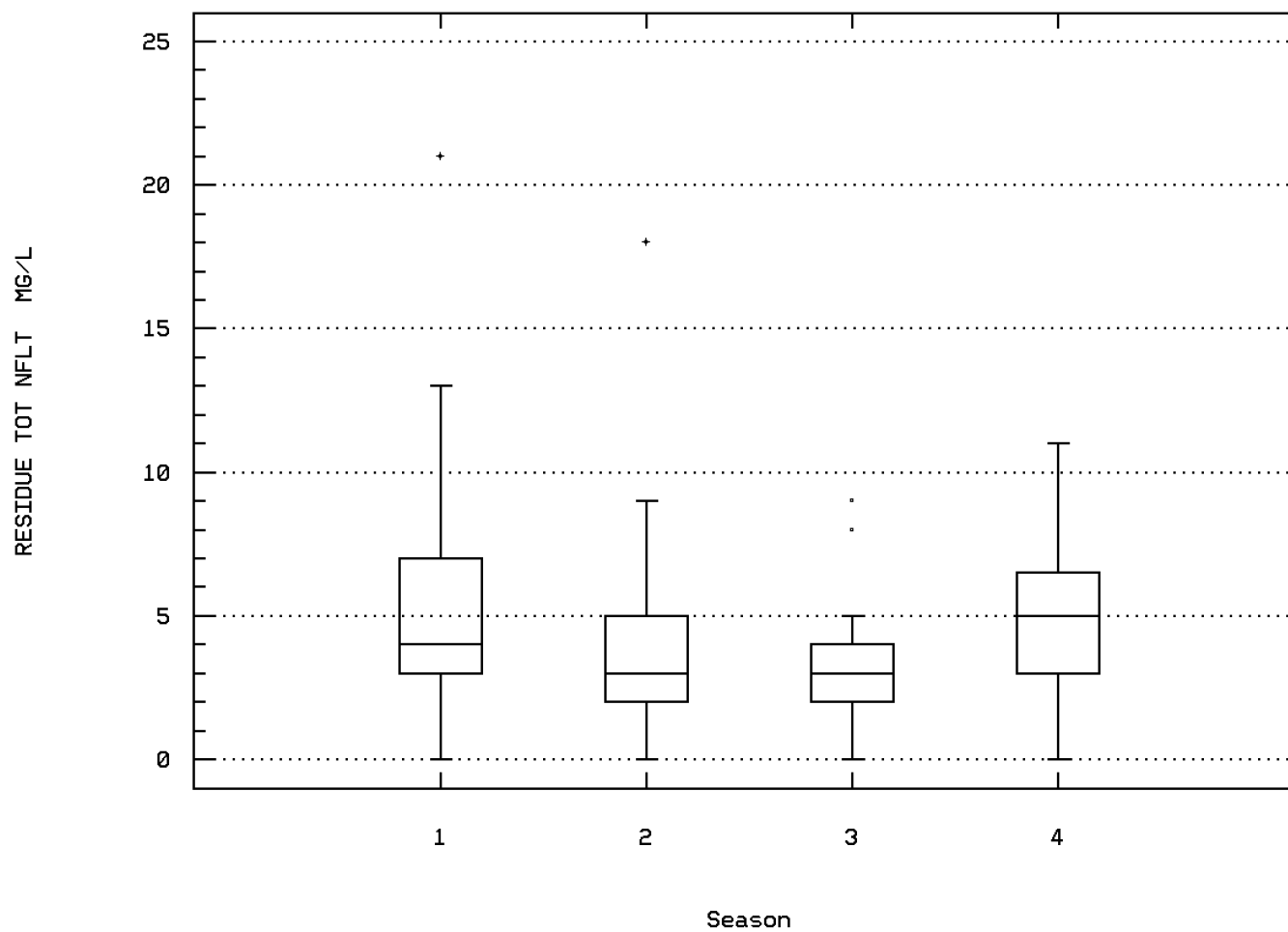
MICRO EQ/LITER OF H+ COMPUTED FROM PH



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00530

RESIDUE, TOTAL NONFILTRABLE (MG/L)

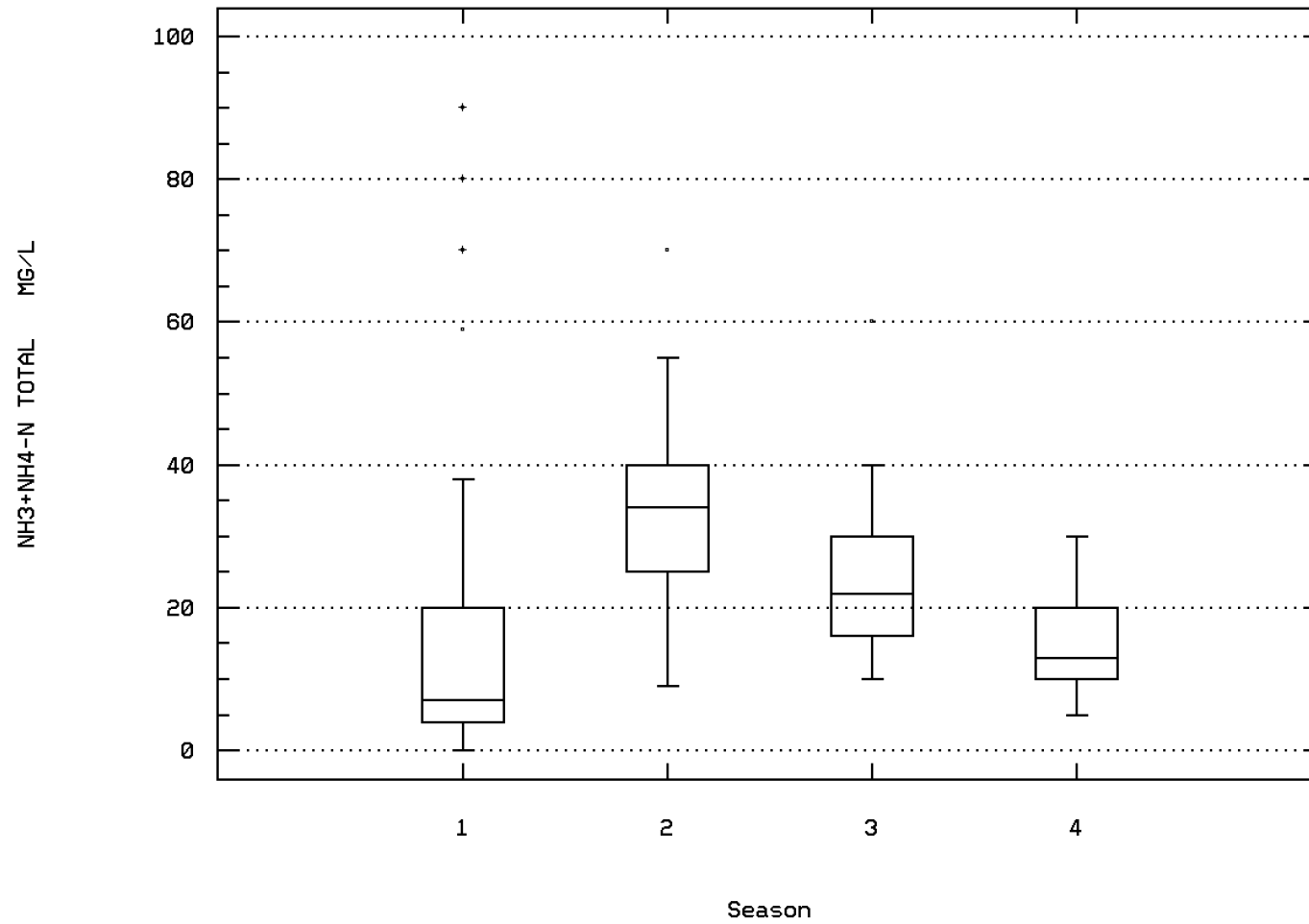


PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00610

NITROGEN, AMMONIA, TOTAL (MG/L AS N)

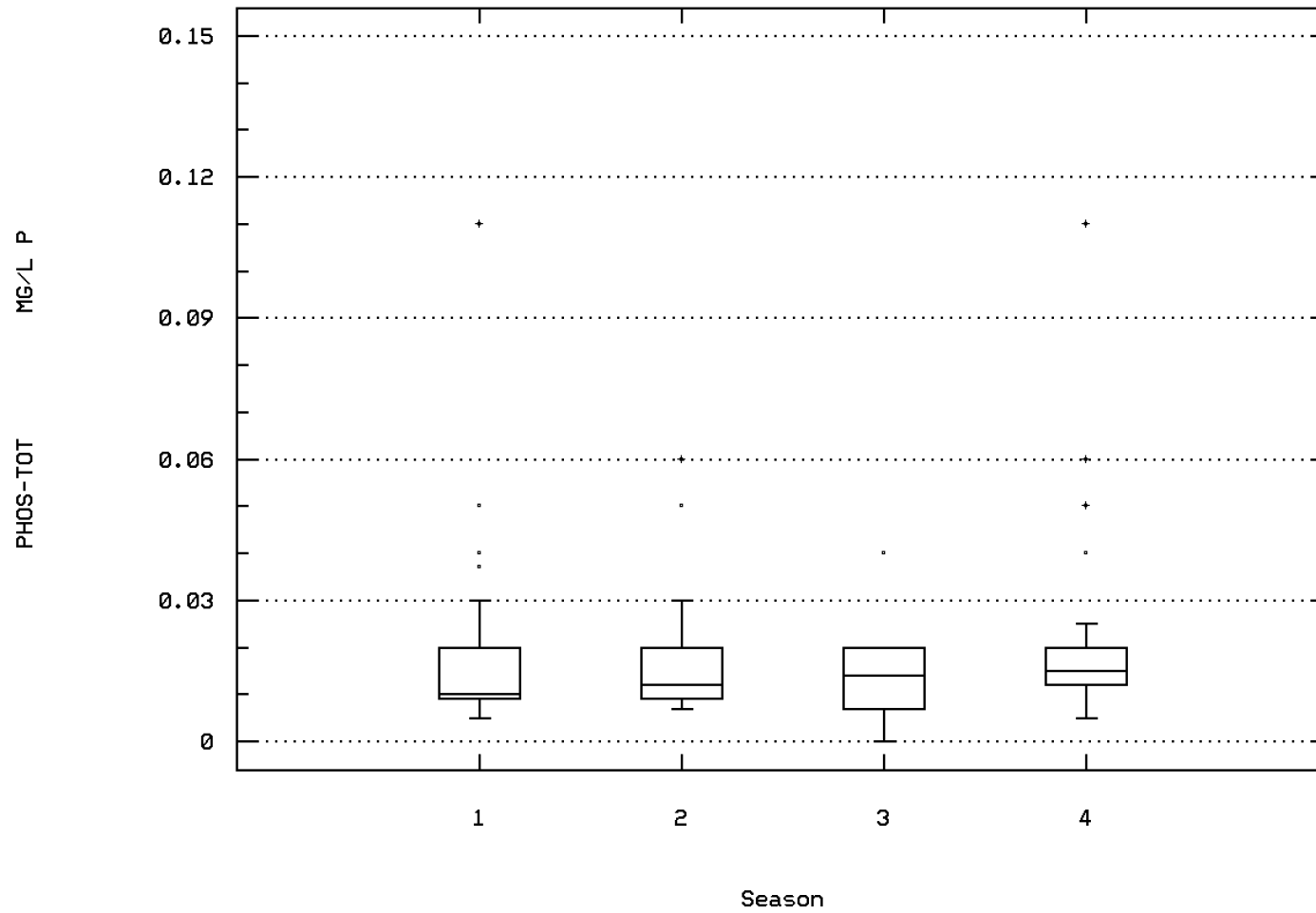
(X 0.001)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 00665

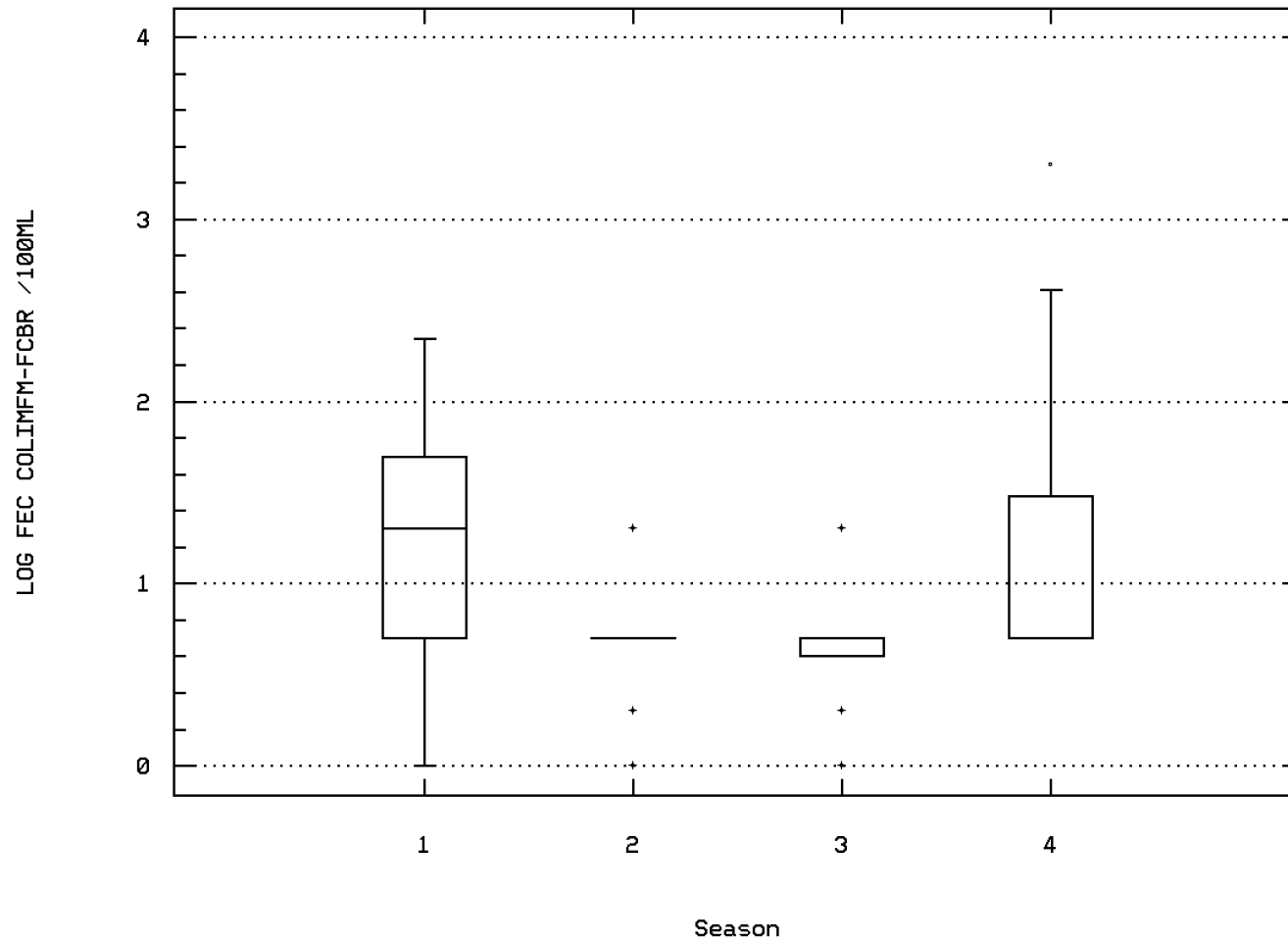
PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station: SLBE0025 Parameter Code: 31616

LOG FECAL COLIFORM, MEMBR FILTER, M-FC BR



PLATTE R ABOVE PLATTE HATCHERY; INLAND

Station Inventory for Station: SLBE0026

NPS Station ID: SLBE0026 LAT/LON: 44.675281/ -85.929276

Location: PLATTE R. AT FEWINS ROAD; INLAND TWP. SEC.6

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0655

RF1 Index: 04060104020

RF3 Index: 04060104000700.25

Description:

PLATTE RIVER AT FEWINS ROAD BRIDGE ABOVE THE PLATTE RIVER HATCHERY, BENZIE COUNTY, T26N, R13W, SECTION 6, INLAND TOWNSHIP.

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100068

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.03

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/75-07/18/75	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/18/75-07/18/75	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/75-07/18/75	1	285.	285.	285.	285.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/18/75-07/18/75	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	07/18/75-07/18/75	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	07/18/75-07/18/75	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/18/75-07/18/75	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/18/75-07/18/75	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/75-07/18/75	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/18/75-07/18/75	1	136.	136.	136.	136.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	07/18/75-07/18/75	1	189.	189.	189.	189.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/18/75-07/18/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/18/75-07/18/75	1##	2.	2.	2.	2.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/18/75-07/18/75	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/18/75-07/18/75	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/18/75-07/18/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/18/75-07/18/75	1	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	07/18/75-07/18/75	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/18/75-07/18/75	1	154.	154.	154.	154.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/18/75-07/18/75	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	07/18/75-07/18/75	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/18/75-07/18/75	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/18/75-07/18/75	1	3.041	3.041	3.041	3.041	0.	0.	**	**	**	**
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			1100.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/75-07/18/75	1	130.	130.	130.	130.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/75-07/18/75	1	2.114	2.114	2.114	2.114	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			130.								
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	07/18/75-07/18/75	1	185.	185.	185.	185.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/18/75-07/18/75	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0026

Parameter	Std. Type	Std. Value	Total			-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00										1	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	1	1	1.00										1	1	1.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0027

NPS Station ID: SLBE0027
 Location: Platte Lake at 22 Foot Basin
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: LAKE MICHIGAN
 Minor Basin: PLATTE
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.678503/ -86.077281

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_PL_04
 Within Park Boundary: No

Date Created: 11/30/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle. The station lies in the southeast portion of Platte Lake north of Bay Point at an approximate depth of 22 feet. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH.(616)375-4611. This station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter National Park Service Water Resources Division Fort Collins Colorado. PH.(970)225-3514.

Parameter Inventory for Station: SLBE0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300 OXYGEN, DISSOLVED MG/L	03/23/93-03/23/93	3	12.8	12.933	13.3	12.7	0.103	0.321	**	**	**	**
00400 PH (STANDARD UNITS)	03/23/93-03/23/93	3	7.76	7.66	7.79	7.43	0.04	0.2	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	03/23/93-03/23/93	3	7.76	7.627	7.79	7.43	0.041	0.204	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/93-03/23/93	3	0.017	0.024	0.037	0.016	0.	0.012	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	03/23/93-03/23/93	3	144.	143.333	156.	130.	169.333	13.013	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0027

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00							3	0	0.00			
00400 PH	Other-Hi Lim.	9.	3	0	0.00							3	0	0.00			
	Other-Lo Lim.	6.5	3	0	0.00							3	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0028

NPS Station ID: SLBE0028 LAT/LON: 44.680281/ -86.077781

Location: PLATTE LAKE-EAST BASIN; BENZONIA TWP., SEC. 1

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104018

RF3 Index: 04060104001700.00

Description:

PLATTE LAKE IN 45 FOOT BASIN IN EASTERN PORTION OF LAKE. BASIN IS LOCATED IN SECTION 1, BENZONIA TOWNSHIP, BENZIE COUNTY APPROXIMATELY 5400 FEET SOUTHEAST OF PLATTE RIVER. INLETS- PLATTE RIVER AND SMALL CREEKS ALONG SOUTH SHORE. OUTLET- PLATTE RIVER. LAKE IS IN PLATTE RIVER BASIN.

Depth of Water: 45

Elevation: 0

RF1 Mile Point: 4.540

RF3 Mile Point: 0.00

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100110 /AC02516.2

Within Park Boundary: No

Aquifer:

Water Body ID:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.46

Date Created: 07/15/77

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0028

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/14/76-11/03/82	97	14.	14.31	24.	3.5	29.416	5.424	5.74	10.	19.	21.08
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/14/76-11/03/82	76	1.95	2.262	17.	0.7	4.1	2.025	1.	1.2	2.575	3.53
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/24/76-11/03/82	15	84.	82.	132.	36.	816.	28.566	39.6	66.	102.	128.4
00080 COLOR (PLATINUM-COBALT UNITS)	04/14/76-11/03/82	71	5.	5.845	16.	3.	6.133	2.476	4.	5.	6.	8.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/06/82-11/03/82	73	294.	299.959	358.	266.	421.29	20.525	275.	287.	314.	333.6
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/14/76-11/03/82	76	310.	307.039	325.	275.	144.785	12.033	290.	300.	315.	320.
00300 OXYGEN, DISSOLVED MG/L	04/14/76-11/03/82	99	8.9	8.422	12.5	0.7	7.943	2.818	3.5	7.3	9.9	12.
00400 PH (STANDARD UNITS)	04/14/76-11/03/82	73	8.3	8.329	8.8	7.6	0.077	0.278	7.94	8.1	8.6	8.6
00400 CONVERTED PH (STANDARD UNITS)	04/14/76-11/03/82	73	8.3	8.236	8.8	7.6	0.086	0.293	7.94	8.1	8.6	8.6
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/14/76-11/03/82	73	0.005	0.006	0.025	0.002	0.	0.004	0.003	0.003	0.008	0.012
00403 PH, LAB, STANDARD UNITS SU	05/06/82-11/03/82	65	8.4	8.268	8.7	7.6	0.077	0.278	7.8	8.05	8.4	8.6
00403 CONVERTED PH, LAB, STANDARD UNITS	05/06/82-11/03/82	65	8.4	8.17	8.7	7.6	0.087	0.295	7.8	8.05	8.4	8.6
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/82-11/03/82	65	0.004	0.007	0.025	0.002	0.	0.005	0.003	0.004	0.009	0.016
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/14/76-11/03/82	76	145.	143.947	153.	129.	30.051	5.482	135.7	141.	148.	150.
00425 ALKALINITY, BICARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	60	144.	142.65	153.	115.	59.452	7.71	133.	139.25	148.	150.
00430 ALKALINITY, CARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	56	0.	1.179	20.	0.	11.458	3.385	0.	0.	0.	4.
00500 RESIDUE, TOTAL (MG/L)	04/14/76-08/24/76	6	196.	194.667	216.	179.	201.067	14.18	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/14/76-11/03/82	76 ##	2.	4.382	36.	2.	24.879	4.988	2.	2.	5.	8.3
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/14/76-11/03/82	76	0.245	0.243	0.36	0.09	0.003	0.053	0.18	0.21	0.28	0.313
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/14/76-11/03/82	76	0.035	0.042	0.24	0.001	0.002	0.045	0.005	0.007	0.053	0.095
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/82-06/17/82	15	0.006	0.007	0.017	0.004	0.	0.003	0.005	0.005	0.007	0.013
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/21/82-11/03/82	70	0.28	0.286	0.38	0.18	0.001	0.036	0.25	0.26	0.3	0.34
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	04/14/76-11/03/82	76	0.085	0.131	0.34	0.008	0.01	0.1	0.02	0.043	0.228	0.26
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/14/76-11/03/82	76	0.009	0.01	0.018	0.005	0.	0.002	0.007	0.008	0.011	0.013
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	35 ##	0.001	0.001	0.003	-0.001	0.	0.001	0.001	0.001	0.001	-0.001
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	04/14/76-08/24/76	6	3.3	3.417	4.4	2.9	0.298	0.546	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/14/76-08/24/76	6	160.	158.333	164.	151.	34.267	5.854	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	04/14/76-08/24/76	6	42.5	41.667	44.	38.	7.467	2.733	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	04/21/82-11/03/82	70	42.	41.386	50.	36.	9.052	3.009	37.1	39.	44.	45.
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	04/14/76-08/24/76	6	12.05	12.2	13.	12.	0.156	0.395	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-11/03/82	70	12.	11.829	12.	11.	0.144	0.38	11.	12.	12.	12.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-11/03/82	70	4.	4.11	5.1	3.	0.363	0.603	3.	4.	4.5	5.
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/14/76-08/24/76	6	3.45	3.467	3.6	3.4	0.007	0.082	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/14/76-08/24/76	6	0.64	0.633	0.68	0.58	0.002	0.041	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-11/03/82	70	0.65	0.65	0.7	0.6	0.003	0.05	0.6	0.6	0.7	0.7
00940	CHLORIDE,TOTAL IN WATER MG/L	04/14/76-11/03/82	76	4.	4.066	6.	4.	0.089	0.298	4.	4.	4.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-11/03/82	70	10.	10.543	15.	7.	3.208	1.791	8.	9.	12.	13.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/14/76-08/24/76	6	16.5	16.167	17.	15.	0.967	0.983	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	04/14/76-11/03/82	76	2.	2.032	3.5	0.5	0.566	0.752	0.937	1.445	2.6	3.13
01045	IRON, TOTAL (UG/L AS FE)	04/14/76-08/24/76	6	46.5	62.5	150.	27.	2037.1	45.134	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-11/03/82	70	172.	170.257	204.	136.	230.368	15.178	148.2	160.	180.	188.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/14/76-08/24/76	6	182.	179.	186.	167.	66.4	8.149	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/14/76-11/03/82	54 ###	0.001	0.001	0.005	0.001	0.	0.001	0.001	0.001	0.001	0.003

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0028

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	76	0	0.00	33	0	0.00			3	0	0.00	40	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	99	11	0.11	46	7	0.15			5	0	0.00	48	4	0.08
00400	PH	Other-Hi Lim.	9.	73	0	0.00	34	0	0.00			3	0	0.00	36	0	0.00
		Other-Lo Lim.	6.5	73	0	0.00	34	0	0.00			3	0	0.00	36	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	65	0	0.00	30	0	0.00						35	0	0.00
		Other-Lo Lim.	6.5	65	0	0.00	30	0	0.00						35	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	15	0	0.00									15	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	76	0	0.00	33	0	0.00			3	0	0.00	40	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	76	0	0.00	33	0	0.00			3	0	0.00	40	0	0.00
		Drinking Water	250.	76	0	0.00	33	0	0.00			3	0	0.00	40	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	70	0	0.00	30	0	0.00						40	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00			3	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0029

NPS Station ID: SLBE0029 LAT/LON: 44.680838/ -86.156393

Location: PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SEC. 27

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104015

RF3 Index: 04060104029800.00

Description:

PLATTE RIVER AT THE OUTLET OF PLATTE LAKE NEAR THE M-22 BRIDGE,
THIS STATION IS ABOUT ELEVEN MILES DOWNSTREAM FROM THE PLATTE

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 9.510

RF3 Mile Point: 0.00

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100064

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.04

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

BENZIE COUNTY, T27N, R15W, SECTION 27, LAKE TOWNSHIP
HATCHERY

Parameter Inventory for Station: SLBE0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-09/07/93	59	15.5	13.705	29.	0.	80.878	8.993	1.	4.	22.	25.
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	60.	55.	100.	0.	2766.667	52.599	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	12.	10.75	15.	4.	24.917	4.992	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	28	2.	2.314	5.	0.5	1.54	1.241	1.	1.	3.	5.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-09/07/93	9	1.3	1.6	3.7	0.5	1.138	1.067	0.5	0.85	2.35	3.7
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-09/07/93	13	293.	295.231	317.	280.	166.692	12.911	280.	282.5	305.5	316.6
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	42	9.85	10.355	14.2	8.	2.697	1.642	8.32	9.	11.6	12.95
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	33	1.6	1.924	8.1	0.25	2.167	1.472	0.54	1.05	2.4	3.56
00400 PH (STANDARD UNITS)	09/08/70-09/07/93	39	8.3	8.311	8.7	7.9	0.04	0.2	8.	8.2	8.5	8.56
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-09/07/93	39	8.3	8.264	8.7	7.9	0.042	0.206	8.	8.2	8.5	8.56
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-09/07/93	39	0.005	0.005	0.013	0.002	0.	0.003	0.003	0.003	0.006	0.01
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/18/93-09/07/93	5	132.	136.6	147.	126.	87.8	9.37	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	05/18/93-09/07/93	5	199.	198.4	206.	190.	53.3	7.301	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-09/07/93	39	3.	3.808	13.	0.	9.758	3.124	1.	2.	6.	9.
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-09/07/93	41	0.018	0.019	0.07	0.	0.	0.016	0.004	0.01	0.02	0.05
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.006	0.01	0.	0.	0.004	0.	0.001	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-09/07/93	11	0.005	0.005	0.01	0.003	0.	0.002	0.003	0.003	0.005	0.009
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-09/07/93	41	0.15	0.156	0.35	0.	0.011	0.105	0.01	0.064	0.25	0.3
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/07/93-09/07/93	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/18/93-09/07/93	5	0.06	0.09	0.17	0.03	0.004	0.065	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-09/07/93	51	0.013	0.02	0.09	0.	0.	0.018	0.005	0.007	0.02	0.048
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	09/07/93-09/07/93	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	05/18/93-09/07/93	5	145.	145.2	149.	143.	6.2	2.49	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	05/18/93-09/07/93	5	40.4	40.46	41.7	39.7	0.613	0.783	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	05/18/93-09/07/93	5	10.7	10.72	10.9	10.5	0.022	0.148	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	09/07/93-09/07/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	09/07/93-09/07/93	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/18/93-09/07/93	5	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	09/07/93-09/07/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	09/07/93-09/07/93	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	05/18/93-09/07/93	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01007	BARIUM, TOTAL (UG/L AS BA)	09/07/93-09/07/93	1	18.	18.	18.	18.	0.	0.	**	**	**	
01012	BERYLLIUM, TOTAL (UG/L AS BE)	09/07/93-09/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	
01027	CADMIUM, TOTAL (UG/L AS CD)	05/18/93-09/07/93	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/18/93-09/07/93	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/18/93-09/07/93	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	
01037	COBALT, TOTAL (UG/L AS CO)	09/07/93-09/07/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	
01042	COPPER, TOTAL (UG/L AS CU)	05/18/93-09/07/93	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	
01045	IRON, TOTAL (UG/L AS FE)	09/07/93-09/07/93	1	24.	24.	24.	24.	0.	0.	**	**	**	
01051	LEAD, TOTAL (UG/L AS PB)	05/18/93-09/07/93	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	
01055	MANGANESE, TOTAL (UG/L AS MN)	09/07/93-09/07/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	09/07/93-09/07/93	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	
01067	NICKEL, TOTAL (UG/L AS NI)	05/18/93-09/07/93	5 ##	1.	1.	1.	1.	0.	0.	**	**	**	
01077	SILVER, TOTAL (UG/L AS AG)	05/18/93-09/07/93	5 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	
01087	VANADIUM, TOTAL (UG/L AS V)	09/07/93-09/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	
01092	ZINC, TOTAL (UG/L AS ZN)	05/18/93-09/07/93	5 ##	2.	2.	2.	2.	0.	0.	**	**	**	
01097	ANTIMONY, TOTAL (UG/L AS SB)	09/07/93-09/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/07/93-09/07/93	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	
01132	LITHIUM, TOTAL (UG/L AS LI)	09/07/93-09/07/93	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	
01147	SELENIUM, TOTAL (UG/L AS SE)	09/07/93-09/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	
01152	TITANIUM, TOTAL (UG/L AS TI)	09/07/93-09/07/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-01/08/75	37	100.	906.757	6800.	50.	2819466.967	1679.127	50.	50.	900.	3020.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	07/22/68-01/08/75	37	2.	2.356	3.833	1.699	0.506	0.711	1.699	1.699	2.952	3.466
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/22/68-01/08/75			226.932								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	5.	12.703	120.	5.	600.826	24.512	5.	5.	7.5	24.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	0.699	0.853	2.079	0.699	0.121	0.348	0.699	0.699	0.849	1.361
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75			7.125								
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23 ##	0.001	0.002	0.009	0.001	0.	0.003	0.001	0.001	0.004	0.008
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23	0.002	0.013	0.063	0.001	0.	0.021	0.001	0.001	0.025	0.06
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	22 ##	0.001	0.001	0.005	0.	0.	0.001	0.	0.	0.001	0.001
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	20 ##	0.005	0.01	0.039	0.001	0.	0.01	0.003	0.005	0.011	0.028
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-09/07/93	6	195.5	195.667	206.	182.	87.467	9.352	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15 ##	0.005	0.007	0.02	0.005	0.	0.005	0.005	0.005	0.005	0.02
71900	MERCURY, TOTAL (UG/L AS HG)	05/18/93-09/07/93	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	28	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	8	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	9	0	0.00	4	0	0.00	1	0	0.00				4	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	42	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	18	0	0.00
00400	PH	Other-Hi Lim.	9.	39	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	14	0	0.00
		Other-Lo Lim.	6.5	39	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	14	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	11	0	0.00	4	0	0.00	1	0	0.00				6	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	41	0	0.00	15	0	0.00	7	0	0.00	5	0	0.00	14	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	2	0	0.00							3	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	250.	5	0	0.00	2	0	0.00							3	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	50.	5	0	0.00	2	0	0.00							3	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	5.	5	0	0.00	2	0	0.00							3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	5	0	0.00	2	0	0.00							3	0	0.00
		Drinking Water	100.	5	0	0.00	2	0	0.00							3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

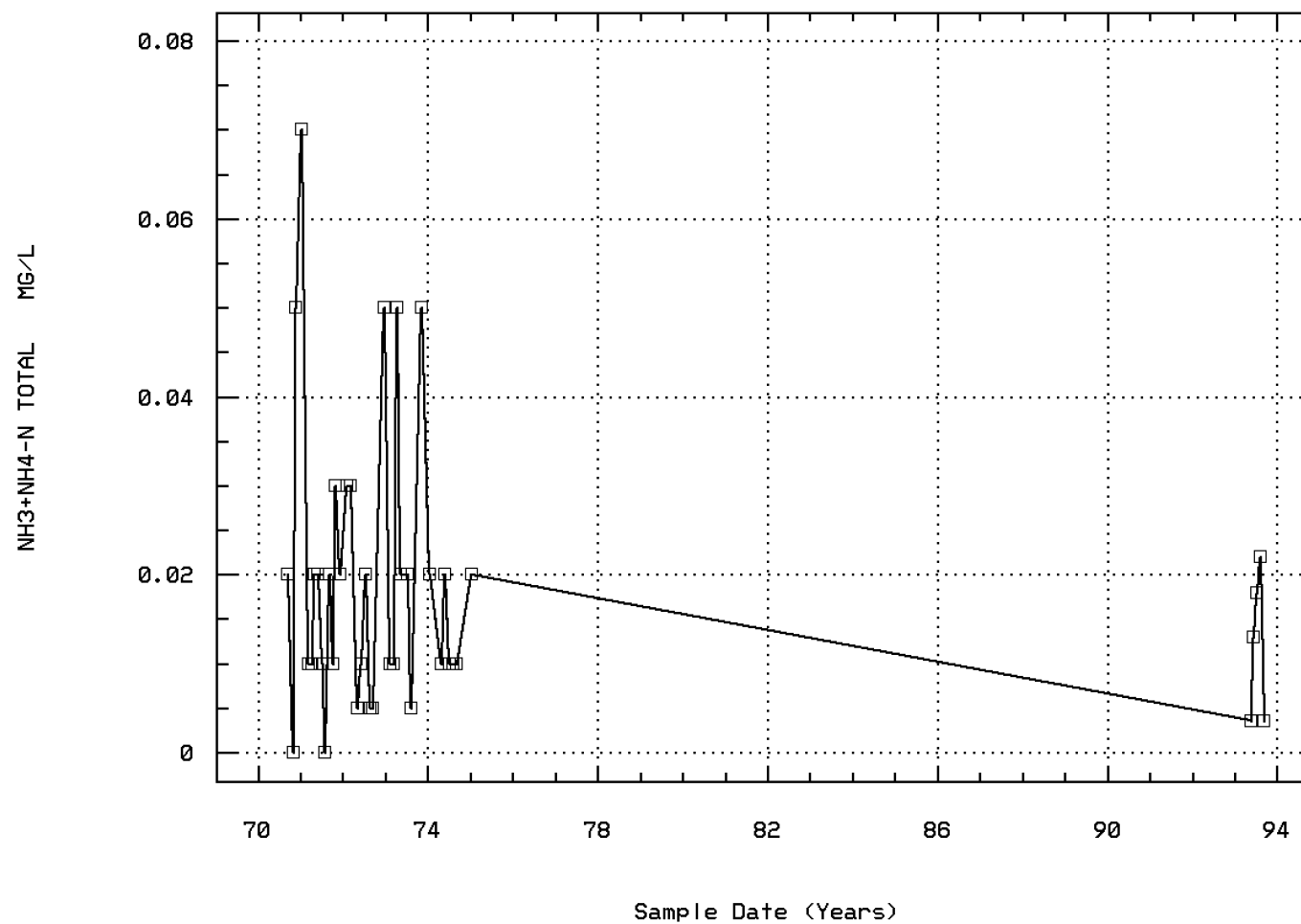
EPA Water Quality Criteria Analysis for Station: SLBE0029

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01034 CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	2	0	0.00							3	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	1300.	5	0	0.00	2	0	0.00							3	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	15.	5	0	0.00	2	0	0.00							3	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	100.	5	0	0.00	2	0	0.00							3	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	100.	5	0	0.00	2	0	0.00							3	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	5000.	5	0	0.00	2	0	0.00							3	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
	Drinking Water	6.	1	0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	37	9	0.24	13	5	0.38	7	0	0.00	4	0	0.00	13	4	0.31
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	37	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	13	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
39380 DIELDRLN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	22	0	0.00	9	0	0.00	4	0	0.00	3	0	0.00	6	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	2.	5	0	0.00	2	0	0.00							3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

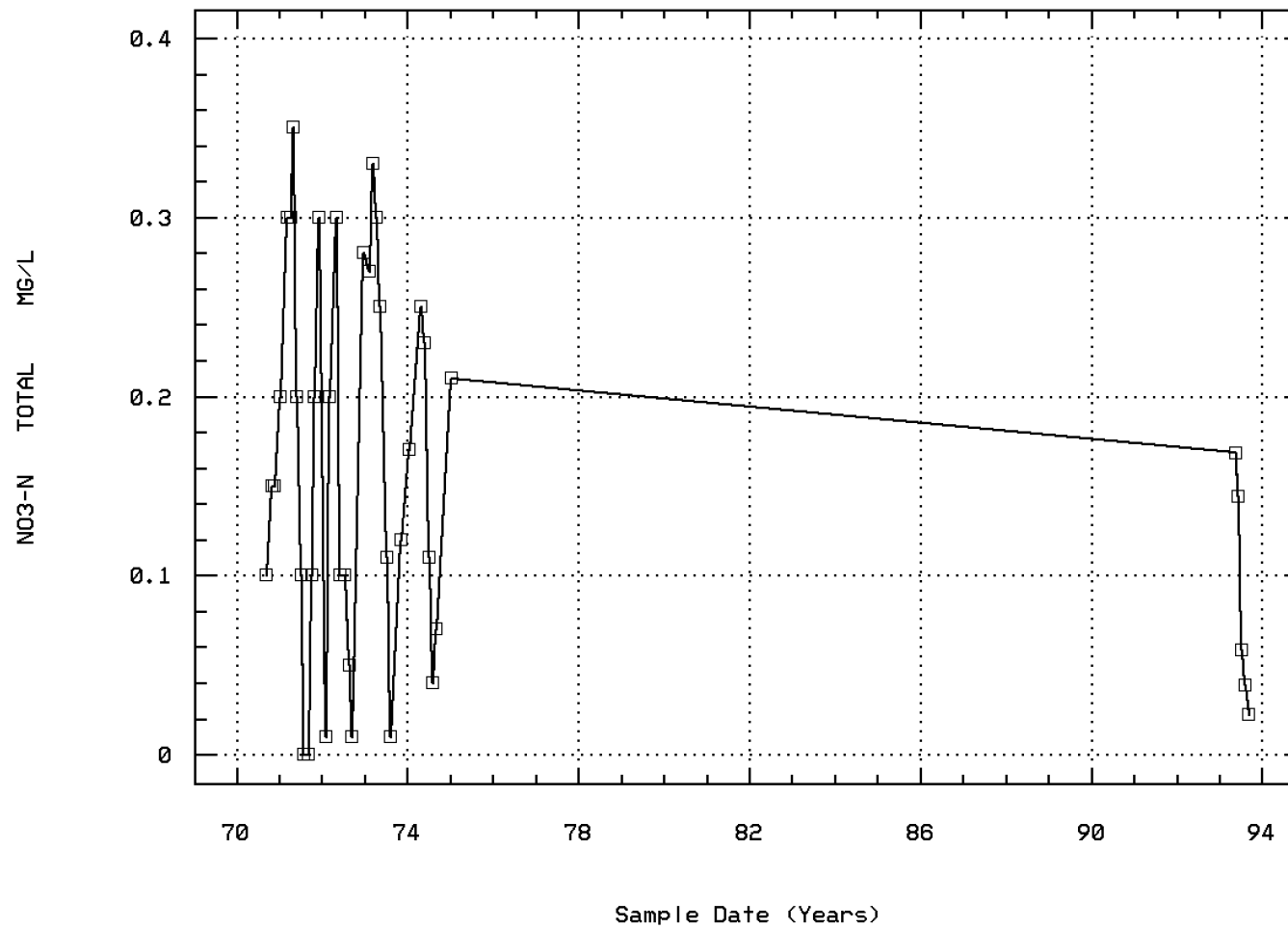
Station: SLBE0029 Parameter Code: 00610

NITROGEN, AMMONIA, TOTAL (MG/L AS N)



PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

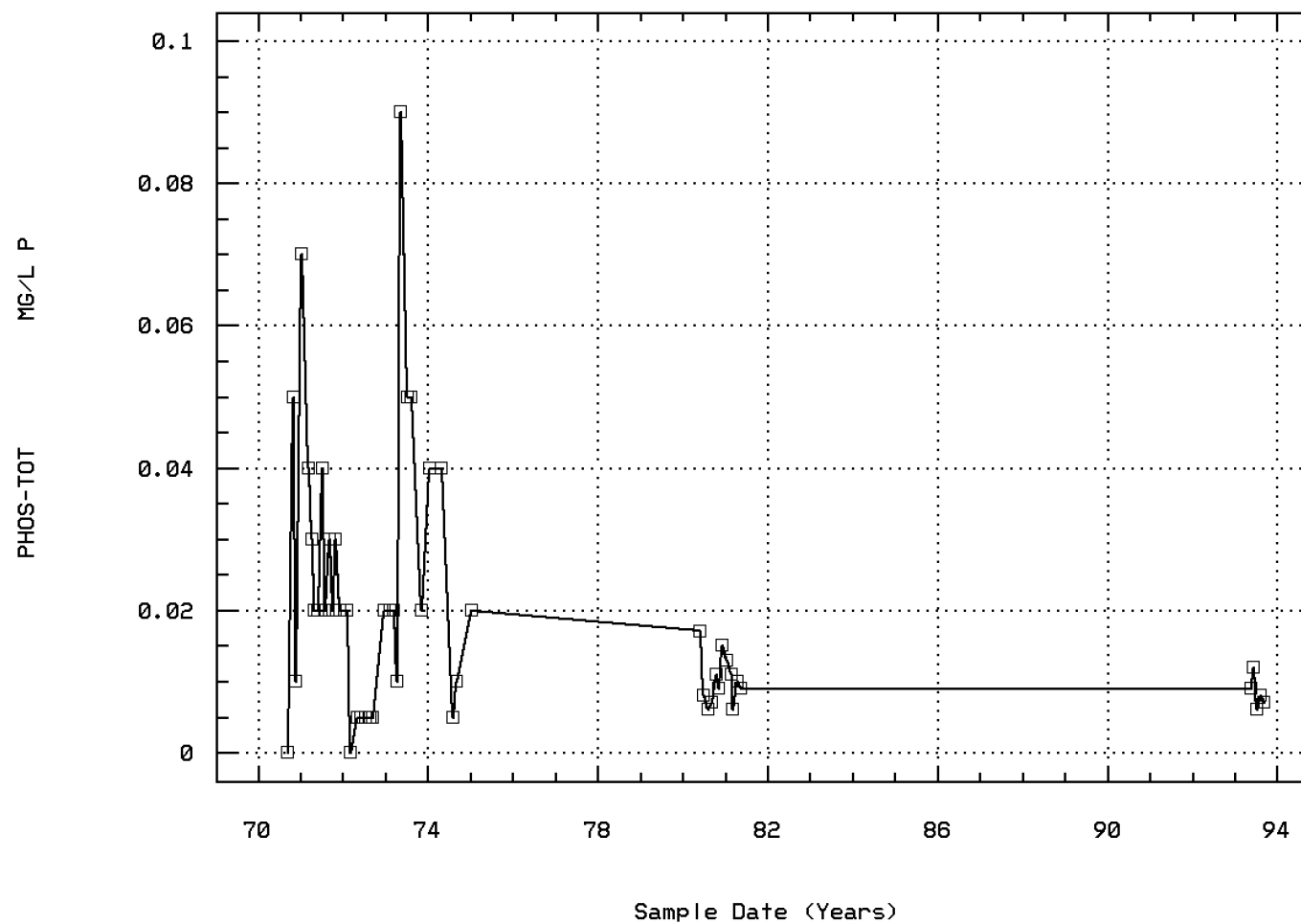
NITRATE NITROGEN, TOTAL (MG/L AS N)



PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Station: SLBE0029 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-09/07/93	19	21.	17.605	26.	5.5	47.849	6.917	7.	11.	23.	25.5
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	13	9.5	9.792	11.6	8.6	1.017	1.009	8.76	9.1	10.5	11.6
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	12	1.25	1.913	8.1	0.25	4.391	2.095	0.325	1.	2.325	6.57
00400p	PH (STANDARD UNITS)	09/08/70-09/07/93	13	8.4	8.372	8.57	8.1	0.023	0.151	8.1	8.3	8.5	8.566
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-09/07/93	13	8.4	8.346	8.57	8.1	0.024	0.153	8.1	8.3	8.5	8.566
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-09/07/93	13	0.004	0.005	0.008	0.003	0.	0.002	0.003	0.003	0.005	0.008
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-09/07/93	14	4.	4.714	10.	2.	8.374	2.894	2.	2.	6.75	9.5
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-09/07/93	15	0.01	0.016	0.05	0.	0.	0.016	0.	0.005	0.022	0.05
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-09/07/93	15	0.05	0.071	0.2	0.	0.004	0.063	0.	0.01	0.12	0.17
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-09/07/93	19	0.01	0.016	0.05	0.	0.	0.015	0.005	0.006	0.02	0.05

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-09/07/93	10	1.	1.3	3.	0.	1.011	1.006	0.05	0.5	2.5	2.95
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	6	12.95	12.7	14.2	11.	1.552	1.246	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	6	2.3	2.517	4.5	0.6	2.074	1.44	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-09/07/93	7	8.2	8.157	8.3	7.9	0.02	0.14	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-09/07/93	7	8.2	8.137	8.3	7.9	0.02	0.141	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-09/07/93	7	0.006	0.007	0.013	0.005	0.	0.003	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-09/07/93	7	1.	1.286	2.	1.	0.238	0.488	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-09/07/93	7	0.02	0.031	0.07	0.01	0.	0.021	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-09/07/93	7	0.21	0.206	0.3	0.01	0.01	0.098	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-09/07/93	10	0.02	0.025	0.07	0.011	0.	0.018	0.011	0.015	0.025	0.067

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-09/07/93	7	4.	4.157	9.5	0.6	8.69	2.948	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	5	11.6	11.5	12.2	10.7	0.33	0.574	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	5	1.7	1.64	2.4	1.	0.353	0.594	**	**	**	**
00400p	PH (STANDARD UNITS)	09/08/70-09/07/93	5	8.1	8.12	8.3	7.9	0.032	0.179	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-09/07/93	5	8.1	8.091	8.3	7.9	0.033	0.182	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-09/07/93	5	0.008	0.008	0.013	0.005	0.	0.003	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-09/07/93	4	1.	2.	6.	0.	7.333	2.708	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-09/07/93	5	0.01	0.022	0.05	0.01	0.	0.018	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-09/07/93	5	0.3	0.286	0.33	0.2	0.002	0.05	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-09/07/93	7	0.01	0.017	0.04	0.	0.	0.014	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-09/07/93	23	20.	18.783	29.	9.	32.246	5.679	10.1	14.	23.	26.1
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	18	9.35	9.661	13.1	8.	2.173	1.474	8.18	8.5	10.75	11.93
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	10	1.6	1.725	3.2	0.25	0.707	0.841	0.325	1.075	2.4	3.12
00400p	PH (STANDARD UNITS)	09/08/70-09/07/93	14	8.4	8.4	8.7	7.9	0.038	0.195	8.1	8.3	8.538	8.65
00400p	CONVERTED PH (STANDARD UNITS)	09/08/70-09/07/93	14	8.4	8.353	8.7	7.9	0.04	0.201	8.1	8.3	8.537	8.65

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0029

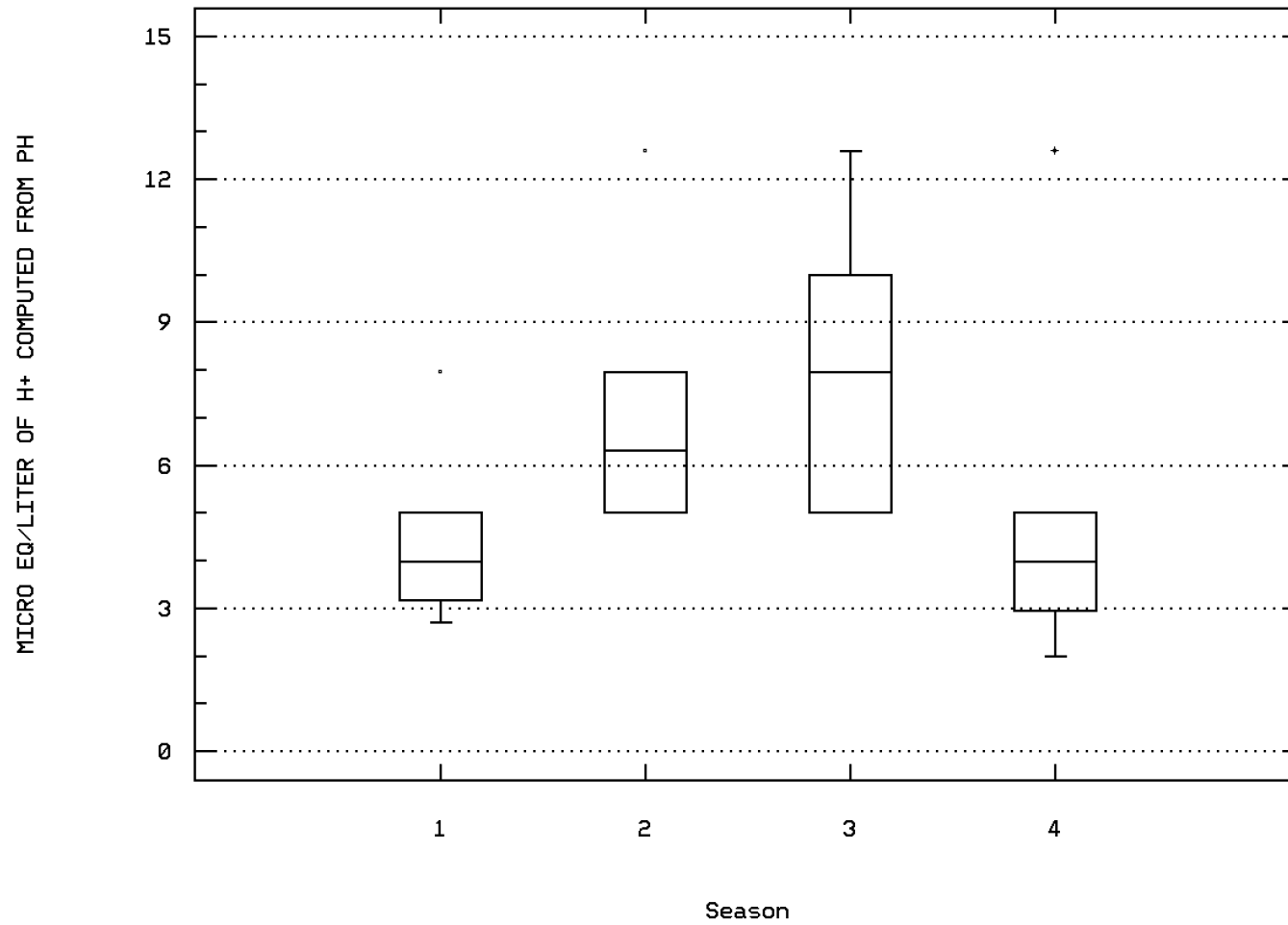
Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-09/07/93	14	0.004	0.004	0.013	0.002	0.	0.003	0.002	0.003	0.005	0.009
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-09/07/93	14	3.5	4.679	13.	0.5	12.216	3.495	1.25	2.	6.5	11.5
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-09/07/93	14	0.016	0.014	0.02	0.004	0.	0.006	0.004	0.01	0.02	0.02
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-09/07/93	14	0.156	0.176	0.35	0.058	0.008	0.088	0.079	0.1	0.25	0.325
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-09/07/93	15	0.012	0.022	0.09	0.005	0.001	0.024	0.005	0.006	0.04	0.066

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0029 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH

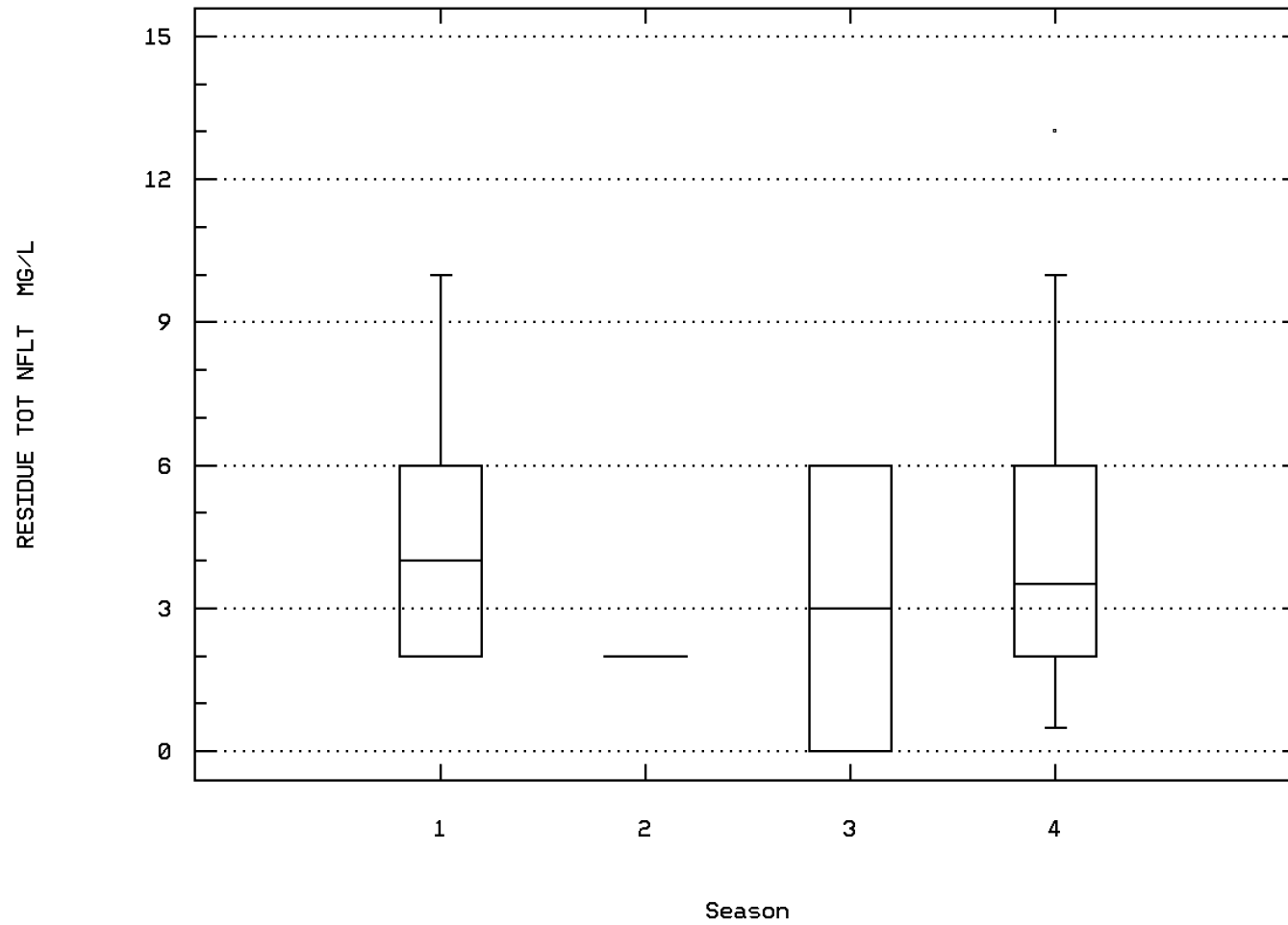
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PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Station: SLBE0029 Parameter Code: 00530

RESIDUE, TOTAL NONFILTRABLE (MG/L)

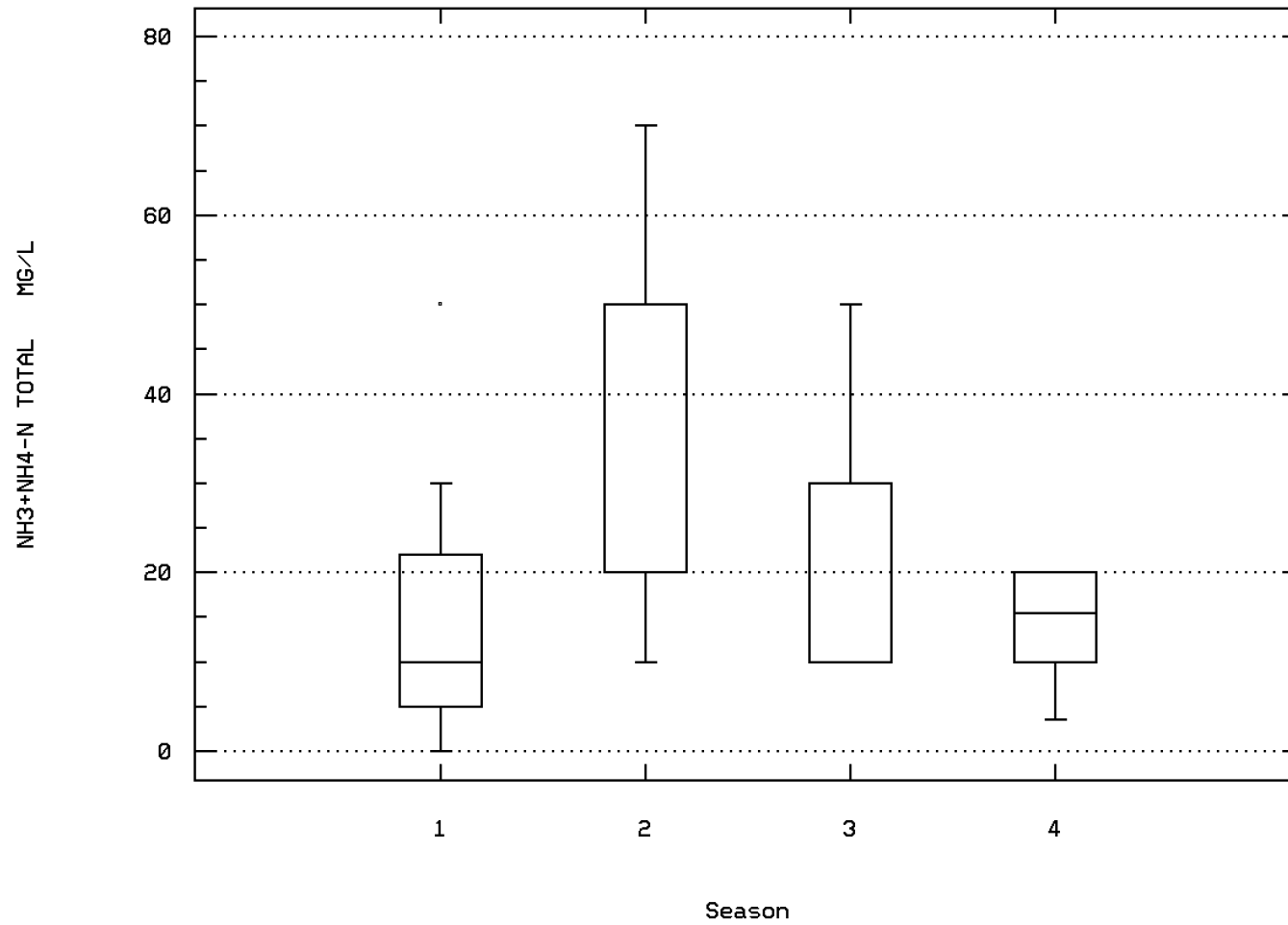


PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Station: SLBE0029 Parameter Code: 00610

NITROGEN, AMMONIA, TOTAL (MG/L AS N)

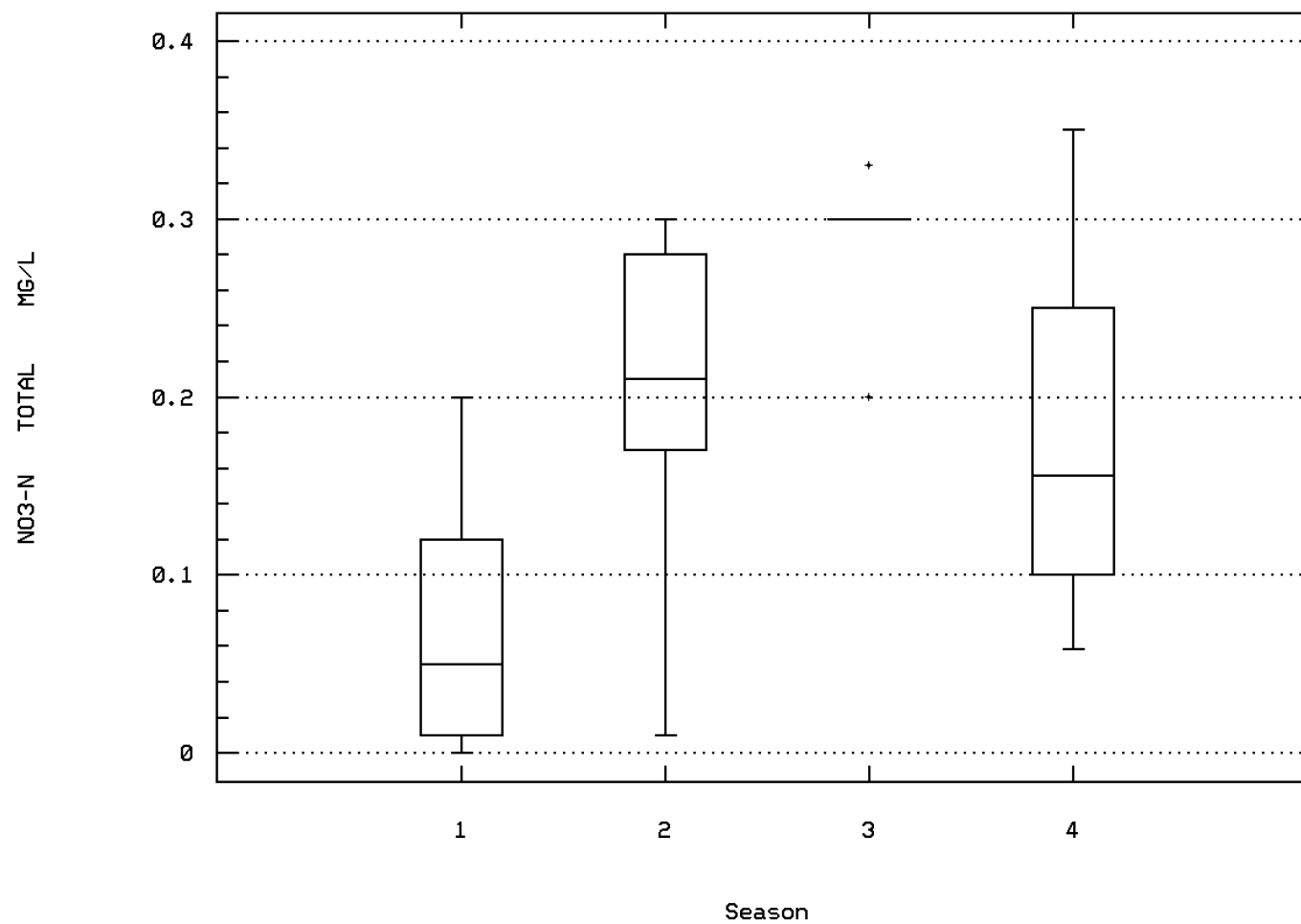
(X 0.001)



PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Station: SLBE0029 Parameter Code: 00620

NITRATE NITROGEN, TOTAL (MG/L AS N)

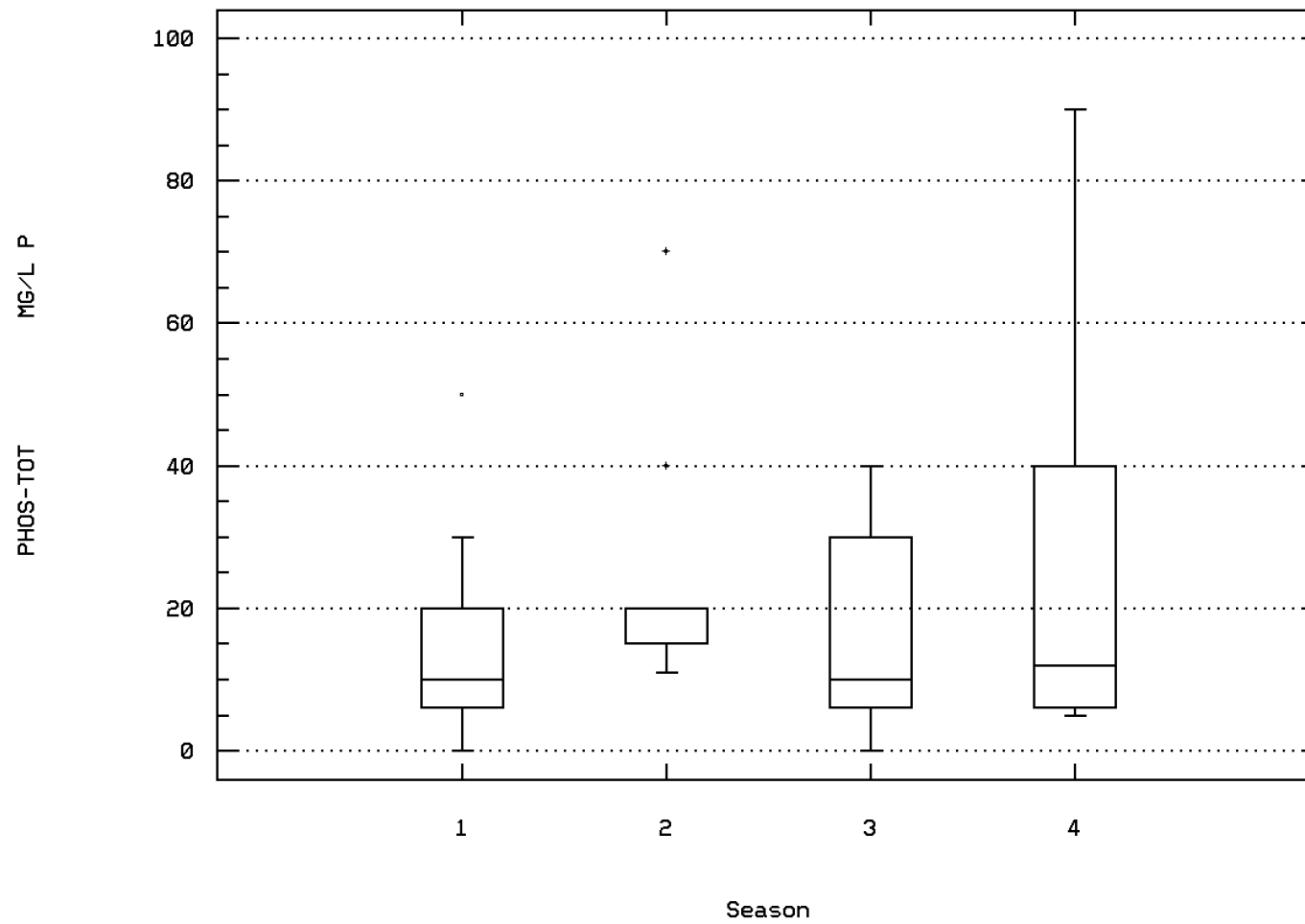


PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Station: SLBE0029 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)

(X 0.001)



PLATTE R NEAR M-22 BRIDGE; LAKE TWP. SE

Station Inventory for Station: SLBE0030

NPS Station ID: SLBE0030 LAT/LON: 44.681392/ -86.064170

Location: PLATTE LK. AT INLET; BENZONIA TWP., SEC. 1

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104019

RF3 Index: 04060104019700.00

Description:

PLATTE LAKE AT THE INLET FROM THE PLATTE RIVER. THE INLET IS LOCATED IN SECTION 1, T26N, R15W, BENZONIA TOWNSHIP, BENZIE COUNTY, MICHIGAN.

INLET: PLATTE RIVER. OUTLET: PLATTE RIVER.

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100063 /AC02516.3

Within Park Boundary: No

Date Created: 10/16/82

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 14.70

Distance from RF3: 0.15

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0030

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/82-11/03/82	12	12.5	13.	19.5	8.	10.5	3.24	8.6	10.25	15.75	18.45
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/21/82-11/03/82	13	1.	1.092	2.	0.5	0.232	0.482	0.54	0.6	1.4	1.92
00080 COLOR (PLATINUM-COBALT UNITS)	04/21/82-11/03/82	13	8.	8.154	16.	4.	10.474	3.236	4.4	6.	10.	14.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/82-11/03/82	10	309.	305.7	327.	261.	370.011	19.236	264.2	295.25	321.	326.7
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-11/03/82	13	330.	326.923	340.	295.	127.244	11.28	305.	322.5	335.	338.
00400 PH (STANDARD UNITS)	06/03/82-11/03/82	8	8.45	8.438	8.6	8.3	0.011	0.106	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/03/82-11/03/82	8	8.447	8.426	8.6	8.3	0.011	0.107	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/82-11/03/82	8	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	04/21/82-11/03/82	13	8.2	8.238	8.6	8.	0.029	0.171	8.04	8.1	8.35	8.56
00403 CONVERTED PH, LAB, STANDARD UNITS	04/21/82-11/03/82	13	8.2	8.211	8.6	8.	0.03	0.173	8.04	8.1	8.35	8.56
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/82-11/03/82	13	0.006	0.006	0.01	0.003	0.	0.002	0.003	0.004	0.008	0.009
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/21/82-11/03/82	13	161.	159.846	168.	142.	41.141	6.414	146.8	157.5	163.5	166.4
00425 ALKALINITY, BICARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	11	161.	159.909	168.	142.	48.091	6.935	144.4	158.	164.	167.2
00430 ALKALINITY, CARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-11/03/82	13	4.	4.769	15.	2.	17.192	4.146	2.	2.	5.5	13.8
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/21/82-11/03/82	13	0.22	0.222	0.37	0.08	0.006	0.076	0.112	0.18	0.245	0.362
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-11/03/82	13	0.036	0.065	0.32	0.006	0.008	0.089	0.007	0.02	0.059	0.264
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/82-06/17/82	3	0.008	0.009	0.012	0.008	0.	0.002	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/21/82-11/03/82	13	0.25	0.265	0.42	0.17	0.006	0.075	0.178	0.205	0.3	0.408
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/21/82-11/03/82	13	0.24	0.258	0.33	0.21	0.002	0.04	0.214	0.225	0.295	0.322
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/21/82-11/03/82	13	0.016	0.017	0.032	0.01	0.	0.006	0.01	0.012	0.021	0.028
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	12	0.002	0.002	0.005	0.001	0.	0.002	0.001	0.001	0.003	0.005
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-11/03/82	12	2.65	2.767	4.2	2.1	0.361	0.601	2.1	2.25	3.1	3.9
00916 CALCIUM, TOTAL (MG/L AS Ca)	04/21/82-11/03/82	13	45.	44.769	47.	41.	3.359	1.833	41.8	43.5	46.5	47.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-11/03/82	13	12.	11.462	12.	10.	0.436	0.66	10.4	11.	12.	12.
00929 SODIUM, TOTAL (MG/L AS Na)	04/21/82-11/03/82	13	4.	3.869	5.	3.	0.442	0.665	3.	3.3	4.2	5.
00937 POTASSIUM, TOTAL MG/L AS K)	04/21/82-11/03/82	13	0.6	0.592	0.7	0.5	0.006	0.076	0.5	0.5	0.65	0.7
00940 CHLORIDE,TOTAL IN WATER MG/L	04/21/82-11/03/82	13	4.	3.615	4.	3.	0.256	0.506	3.	3.	4.	4.
00945 SULFATE, TOTAL (MG/L AS SO4)	04/21/82-11/03/82	13	8.	7.692	10.	4.	3.564	1.888	4.4	6.5	9.	10.
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	04/21/82-11/03/82	13	3.2	3.231	3.9	2.9	0.101	0.317	2.9	3.	3.45	3.82
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-11/03/82	13	172.	168.	196.	100.	637.333	25.245	116.	160.	184.	194.4
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	13	0.002	0.003	0.006	0.001	0.	0.002	0.001	0.002	0.004	0.006

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0030

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER																
	Other-Hi Lim.	50.	13	0	0.00	6	0	0.00							7	0	0.00
00400	PH														3	0	0.00
	Other-Hi Lim.	9.	8	0	0.00	5	0	0.00							3	0	0.00
	Other-Lo Lim.	6.5	8	0	0.00	5	0	0.00							3	0	0.00
00403	PH, LAB														7	0	0.00
	Other-Hi Lim.	9.	13	0	0.00	6	0	0.00							7	0	0.00
	Other-Lo Lim.	6.5	13	0	0.00	6	0	0.00							7	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N														3	0	0.00
	Drinking Water	1.	3	0	0.00										7	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.														7	0	0.00
	Drinking Water	10.	13	0	0.00	6	0	0.00							7	0	0.00
00940	CHLORIDE, TOTAL IN WATER														7	0	0.00
	Fresh Acute	860.	13	0	0.00	6	0	0.00							7	0	0.00
	Drinking Water	250.	13	0	0.00	6	0	0.00							7	0	0.00
00945	SULFATE, TOTAL (AS SO4)														7	0	0.00
	Drinking Water	250.	13	0	0.00	6	0	0.00							7	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0031

NPS Station ID: SLBE0031	LAT/LON: 44.684281/ -86.059449	Agency: 11NPSWRD	Date Created: 11/30/96
Location: N. Branch of Platte R. at Deadstream Rd.		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYP/AMBNT/STREAM		STORET Station ID(s): SLBE_PR_05	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: PLATTE		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle and lies east of Platte Lake where Deadstream Road crosses the North Branch of the Platte River. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Association PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH.(616)375-4611. This station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter National Park Service Water Resources Division Fort Collins Colorado. PH.(970)225-3514.			

Parameter Inventory for Station: SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	130	49.15	50.187	72.	33.	143.619	11.984	35.42	38.	61.85	66.36
00061 FLOW, STREAM, INSTANTANEOUS CFS	05/28/96-09/03/96	13	16.	18.462	60.	1.	243.436	15.602	2.2	6.	26.	48.4
00300 OXYGEN, DISSOLVED MG/L	11/30/89-09/01/92	60	9.65	9.577	14.2	5.9	3.526	1.878	6.72	8.2	10.9	11.8
00400 PH (STANDARD UNITS)	03/19/96-10/01/96	21	7.84	7.782	8.08	7.35	0.051	0.225	7.38	7.605	7.97	8.026
00400 CONVERTED PH (STANDARD UNITS)	03/19/96-10/01/96	21	7.84	7.721	8.08	7.35	0.055	0.234	7.38	7.605	7.97	8.026
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/19/96-10/01/96	21	0.014	0.019	0.045	0.008	0.	0.011	0.009	0.011	0.025	0.042
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	413	0.015	0.018	0.084	0.006	0.	0.01	0.009	0.012	0.021	0.029
00937 POTASSIUM, TOTAL MG/L AS K)	11/24/92-03/09/93	8	1.36	1.389	1.62	1.21	0.024	0.156	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0031

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	60	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
	Other-Hi Lim.	9.	21	0	0.00	5	0	0.00	11	0	0.00	9	0	0.00	21	0	0.00
00400 PH	Other-Lo Lim.	6.5	21	0	0.00	5	0	0.00				1	0	0.00	15	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1989 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	2	34.5	34.5	35.6	33.4	2.42	1.556	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	6	0.016	0.016	0.02	0.012	0.	0.003	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	24	53.85	52.563	68.9	33.5	146.814	12.117	35.1	39.875	63.525	67.65
00665p PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	84	0.022	0.023	0.042	0.01	0.	0.007	0.014	0.016	0.028	0.031

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	24	50.2	51.425	69.9	34.2	159.803	12.641	34.75	40.25	64.45	67.2
00665p PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	71	0.017	0.022	0.055	0.008	0.	0.01	0.012	0.015	0.028	0.035

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	25	40.	45.604	68.5	33.	126.109	11.23	35.	36.	54.6	65.62
00665p PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	84	0.013	0.014	0.04	0.006	0.	0.007	0.008	0.01	0.017	0.021

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	24	49.	49.625	72.	34.	146.592	12.108	36.	38.	60.	68.
00665p PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	72	0.012	0.013	0.024	0.007	0.	0.004	0.009	0.01	0.016	0.019

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	9	38.	40.333	49.	34.	38.75	6.225	34.	35.	48.	49.
00665p PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	30	0.01	0.016	0.084	0.007	0.	0.019	0.007	0.01	0.012	0.058

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

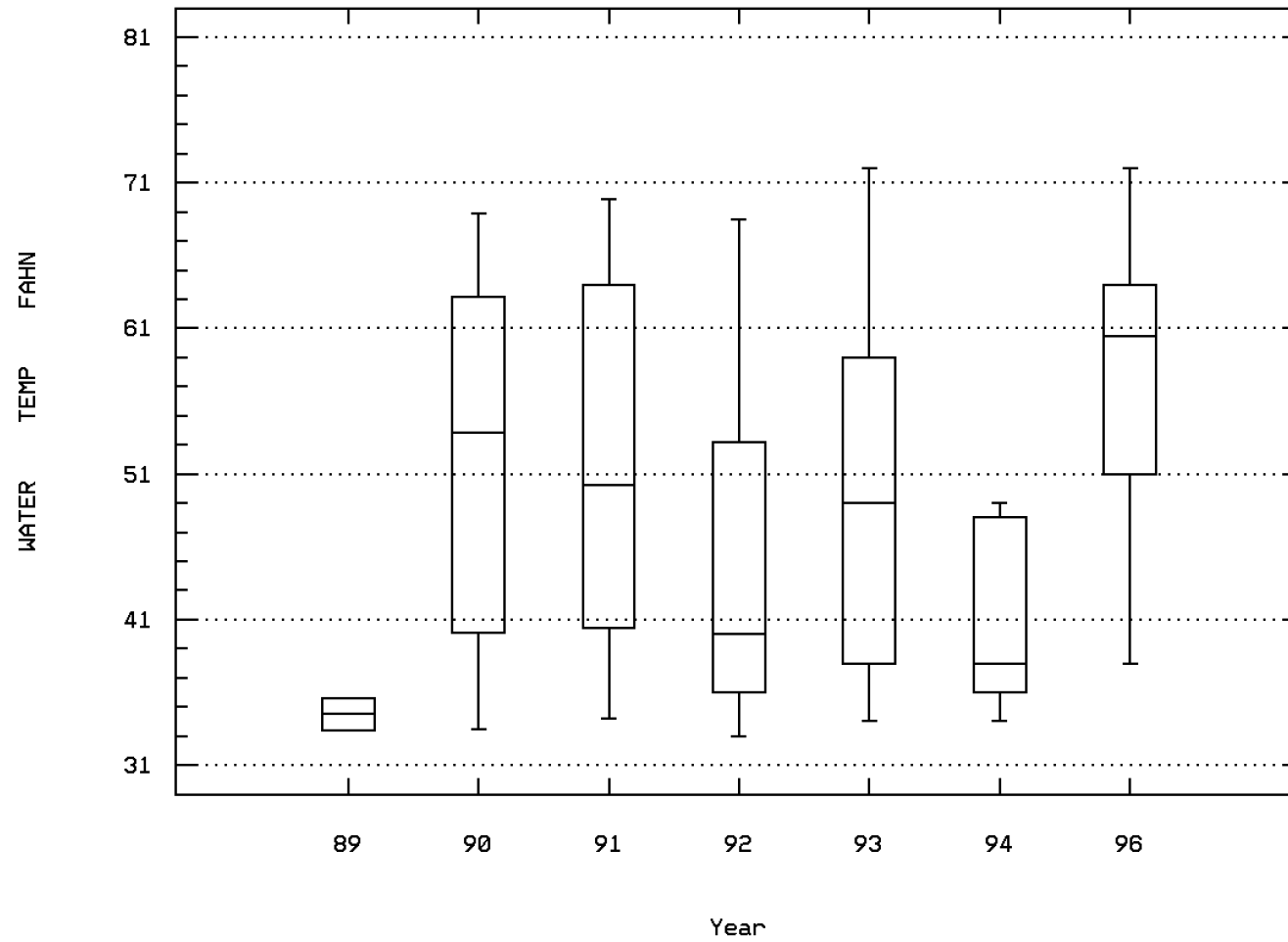
Annual Analysis for 1996 - Station SLBE0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	22	60.5	57.523	72.	38.	71.869	8.478	43.9	50.75	64.	65.7
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	66	0.015	0.018	0.058	0.009	0.	0.009	0.012	0.013	0.018	0.025

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0031 Parameter Code: 00011

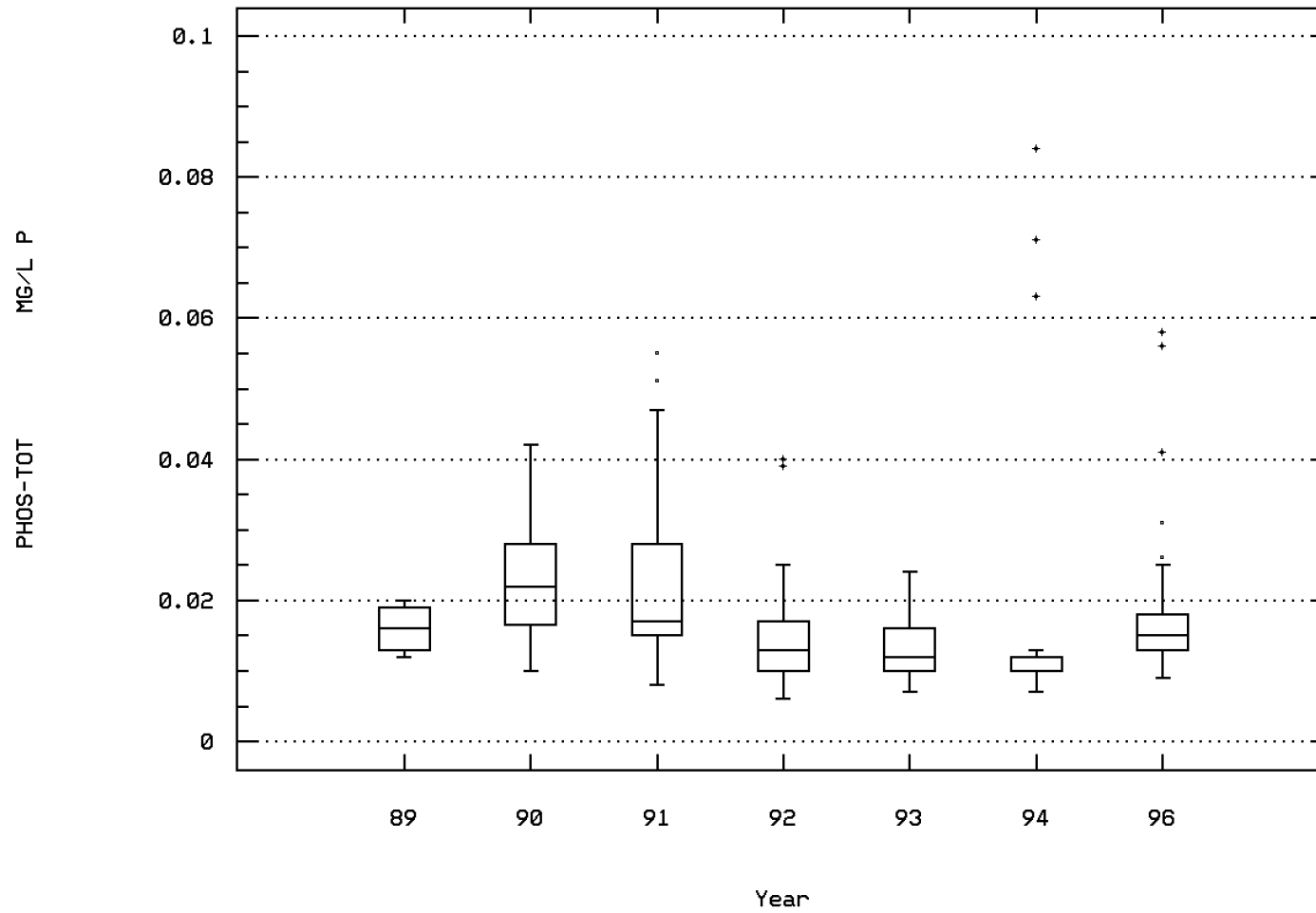
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



N. Branch of Platte R. at Deadstream Rd

Station: SLBE0031 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



N. Branch of Platte R. at Deadstream Rd

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	42	54.4	53.033	72.	35.	120.516	10.978	37.6	42.7	61.85	67.52
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	134	0.015	0.017	0.039	0.008	0.	0.007	0.01	0.012	0.02	0.028

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	23	36.	35.739	40.1	33.	3.135	1.771	33.44	34.	36.5	38.24
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	72	0.011	0.015	0.084	0.006	0.	0.013	0.007	0.009	0.015	0.023

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	16	39.	40.15	53.2	34.2	24.308	4.93	35.04	37.25	40.625	50.4
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	47	0.014	0.016	0.038	0.007	0.	0.008	0.01	0.011	0.018	0.028

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-10/01/96	49	61.	57.806	69.9	37.9	74.051	8.605	46.	49.55	64.95	67.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-10/01/96	160	0.017	0.021	0.058	0.01	0.	0.01	0.012	0.015	0.025	0.032

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0032

NPS Station ID: SLBE0032 LAT/LON: 44.684448/ -86.060282

Location: N. BR. PLATTE R@ DEADSTREAM; HOMSTEAD TWP SEC 6

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104019

RF3 Index: 04060104002000.29

Description:

NORTH BRANCH OF THE PLATTE RIVER AT THE OUTLET OF LITTLE PLATTE
SECTION 6, HOMESTEAD TOWNSHIP

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.450

RF3 Mile Point: 2.27

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100062

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.07

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

LAKE ON DEADSTREAM ROAD WEST OF HONOR, BENZIE COUNTY, T26N, R15W,

Parameter Inventory for Station: SLBE0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	48	10.	10.335	22.5	0.5	47.015	6.857	1.5	4.	16.5	20.
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	55.	52.5	100.	0.	3025.	55.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	12.5	10.5	15.	2.	35.	5.916	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	29	2.	1.907	4.	1.	0.639	0.8	1.	1.	2.	3.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	1.4	1.475	2.3	0.8	0.489	0.699	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	272.5	276.25	305.	260.	233.929	15.295	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/08/70-09/03/74	35	10.9	10.709	13.4	6.2	3.283	1.812	7.68	9.6	12.2	12.88
00310 BOD, 5 DAY, 20 DEG C MG/L	09/08/70-09/03/74	34	1.95	2.004	3.5	0.25	0.637	0.798	0.95	1.55	2.6	3.2
00400 PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.1	8.146	8.6	7.4	0.077	0.277	7.8	7.9	8.3	8.54
00400 CONVERTED PH (STANDARD UNITS)	09/08/70-01/08/75	35	8.1	8.054	8.6	7.4	0.085	0.292	7.8	7.9	8.3	8.54
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/70-01/08/75	35	0.008	0.009	0.04	0.003	0.	0.007	0.003	0.005	0.013	0.016
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/08/70-01/08/75	35	5.	5.014	13.	0.	10.375	3.221	0.5	3.	7.	8.
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.02	0.057	0.32	0.	0.005	0.074	0.004	0.01	0.098	0.186
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.003	0.003	0.01	0.	0.	0.004	0.	0.	0.005	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/08/70-01/08/75	36	0.295	0.272	0.4	0.04	0.005	0.071	0.197	0.208	0.308	0.36
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	46	0.02	0.029	0.09	0.009	0.	0.021	0.01	0.01	0.04	0.066
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/08/70-01/08/75	35	500.	1458.571	11000.	50.	4824189.076	2196.404	50.	50.	2200.	4000.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	09/08/70-01/08/75	35	2.699	2.679	4.041	1.699	0.543	0.737	1.699	1.699	3.342	3.601
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			477.076								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	34 ##	5.	19.588	270.	5.	2368.492	48.667	5.	5.	10.	30.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/08/70-01/08/75	34 ##	0.699	0.931	2.431	0.699	0.173	0.416	0.699	0.699	1.	1.477
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.528								
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	166.	166.	166.	166.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/08/75	15 ##	0.005	0.008	0.03	0.005	0.	0.006	0.005	0.005	0.01	0.018

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

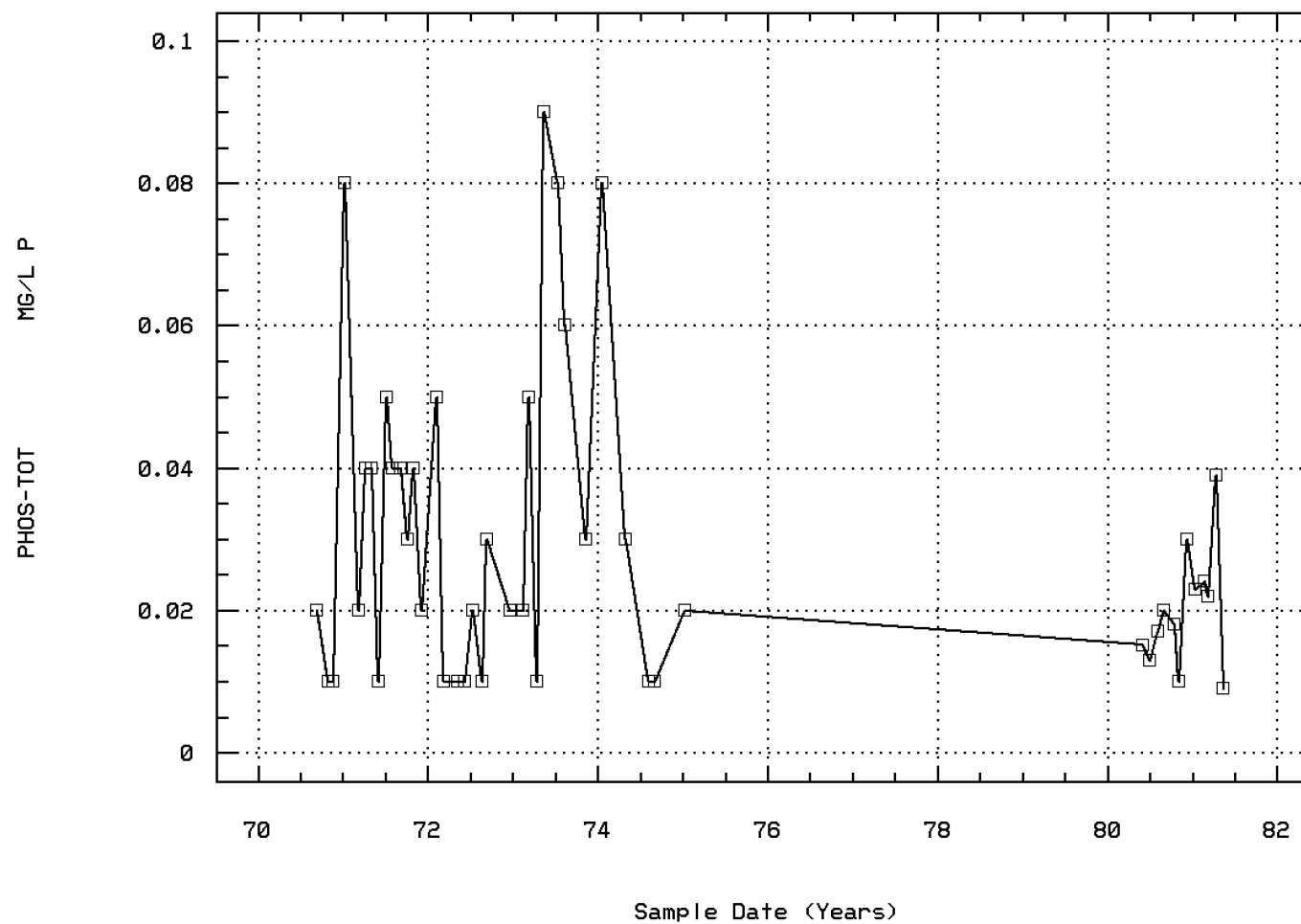
EPA Water Quality Criteria Analysis for Station: SLBE0032

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	29	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	9	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	50.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00300	OXYGEN, DISSOLVED	4.	35	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	11	0	0.00
00400	PH	9.	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
	Other-Lo Lim.	6.5	35	0	0.00	12	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	1.	6	0	0.00	2	0	0.00	1	0	0.00				3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	35	14	0.40	13	9	0.69	7	0	0.00	4	0	0.00	11	5	0.45
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	34	1	0.03	12	1	0.08	7	0	0.00	4	0	0.00	11	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0032 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



N. BR. PLATTE R@ DEADSTREAM; HOMSTEAD T

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	17	14.5	13.618	20.	4.	31.86	5.644	5.6	8.25	19.	20.
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	17	0.02	0.024	0.06	0.01	0.	0.015	0.01	0.01	0.035	0.044

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	10	1.5	2.	5.	0.5	1.778	1.333	0.5	1.25	2.625	4.8
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	10	0.024	0.037	0.08	0.02	0.001	0.025	0.02	0.02	0.058	0.08

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	7	4.	4.871	10.	0.6	9.082	3.014	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	7	0.022	0.027	0.05	0.01	0.	0.016	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

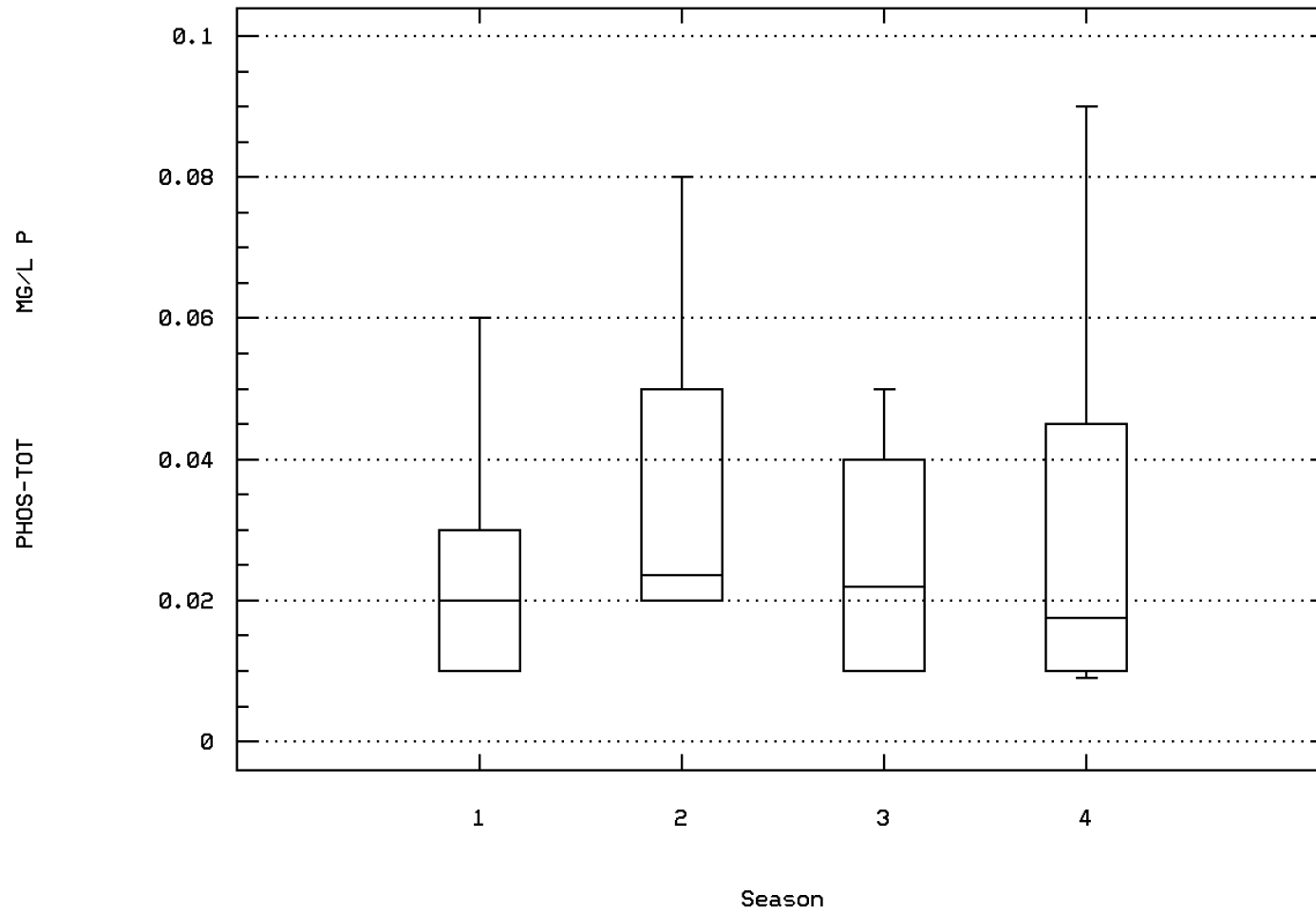
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/70-05/12/81	14	14.	15.036	22.5	9.	17.941	4.236	9.5	12.375	17.75	22.25
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/08/70-05/12/81	12	0.018	0.031	0.09	0.009	0.001	0.028	0.009	0.01	0.048	0.087

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0032 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



N. BR. PLATTE R@ DEADSTREAM; HOMSTEAD T

Station Inventory for Station: SLBE0033

NPS Station ID: SLBE0033
 Location: Platte Lake at 75 Foot Basin
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: LAKE MICHIGAN
 Minor Basin: PLATTE
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.690670/ -86.096170

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_PL_02
 Within Park Boundary: No

Date Created: 11/30/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle. The station lies in the central portion of Platte Lake east of Birch Point at an approximate depth of 75 feet. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH. (717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Assoc. PH. (810)553-3110; or Hatchery Manager-Platte River State Fishery Hatchery PH. (616) 375-4611. This station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter National Park Service Water Resources Division Fort Collins Colorado. PH. (970)225-3514.

Parameter Inventory for Station: SLBE0033

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300 OXYGEN, DISSOLVED MG/L	03/23/93-03/23/93	7	11.1	9.871	12.7	4.	11.059	3.326	**	**	**	**
00400 PH (STANDARD UNITS)	03/23/93-03/23/93	7	7.71	7.656	7.84	7.33	0.039	0.197	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	03/23/93-03/23/93	7	7.71	7.615	7.84	7.33	0.041	0.202	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/93-03/23/93	7	0.019	0.024	0.047	0.014	0.	0.012	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	03/23/93-03/23/93	7	150.	153.429	160.	146.	32.952	5.74	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0033

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	1	0.14							7	1	0.14			
00400 PH	Other-Hi Lim.	9.	7	0	0.00							7	0	0.00			
	Other-Lo Lim.	6.5	7	0	0.00							7	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0034

NPS Station ID: SLBE0034
Location: LAKE MICHIGAN OPEN LAKE
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 04060200
Major Basin: LAKE MICHIGAN
Minor Basin: NORTHERN BASIN
RF1 Index: 04060200
RF3 Index: 04060104000100.00
Description:

LAT/LON: 44.691670/ -86.263338

Depth of Water: 22
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.00

Agency: 1115GLSB
FIPS State/County: 26998 MICHIGAN/
STORET Station ID(s): L. MICH 43
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 19.90
Distance from RF3: 3.82

Date Created: 05/16/81

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: SLBE0034

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0035

NPS Station ID: SLBE0035
 Location: ROUND LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.693198/ -86.185171

Depth of Water: 0
 Elevation: 184

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_L20
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

ROUND LAKE LIES JUST NORTH OF WINETKA POINT OFF CRYSTAL LAKE. THE OUTFLOW FROM ROUND LAKE ENTERS CRYSTAL LAKE VIA A SMALL STREAM. THE SITE IS LOCATED IN THE DEEPEST AREA OF ROUND LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0035

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/90-08/03/92	35	22.	21.529	23.	18.	2.073	1.44	18.8	21.	22.5	23.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/23/90-08/03/92	3	4.5	4.433	5.3	3.5	0.813	0.902	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/90-08/03/92	35	7.7	6.863	8.8	0.3	5.47	2.339	2.74	6.	8.3	8.5
00406 PH, FIELD, STANDARD UNITS SU	07/23/90-08/03/92	8	8.5	8.5	8.8	8.3	0.029	0.169	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/23/90-08/03/92	8	8.5	8.473	8.8	8.3	0.029	0.172	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/90-08/03/92	8	0.003	0.003	0.005	0.002	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/23/90-08/03/92	6	131.	129.667	138.	120.	43.867	6.623	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/23/90-08/03/92	6	0.55	0.473	0.7	0.22	0.043	0.206	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	07/23/90-08/03/92	6 ##	0.025	0.032	0.05	0.02	0.	0.014	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/23/90-08/03/92	6 ##	0.005	0.007	0.012	0.002	0.	0.004	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/92-08/03/92	2	2.85	2.85	4.	1.7	2.645	1.626	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/23/90-08/03/92	6	0.75	0.683	1.	0.3	0.078	0.279	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0035

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	35	3	0.09	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406 PH, FIELD	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	3	0	0.00				19	3	0.16
	Other-Lo Lim.	6.5	8	0	0.00	3	0	0.00							5	0	0.00
															5	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL I DET.	Drinking Water	10.	6	0	0.00	2	0	0.00							4	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	6	0	0.00	2	0	0.00							4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0036

NPS Station ID: SLBE0036 LAT/LON: 44.694448/ -86.101392

Location: PLATTE LAKE IN CENTRAL BASIN; LAKE TWP., SEC. 34

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104019

RF3 Index: 04060104000804.60

Description:

PLATTE LAKE IN 72 FEET DEEP BASIN IN CENTRAL PORTION OF LAKE. BASIN IS LOCATED IN SECTION 34, LAKE TOWNSHIP, BENZIE COUNTY APPROXIMATELY 3000 FEET EAST OF BIRCH POINT. INLETS- PLATTE RIVER AND SMALL CREEKS ON SOUTH SHORE. OUTLET- PLATTE RIVER. LAKE IS IN THE PLATTE RIVER BASIN.

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100109 /AC02516.1

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.06

Date Created: 07/15/77

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0036

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/24/76-09/03/91	41	10.6	11.134	22.7	0.2	49.756	7.054	4.76	5.	17.45	22.4
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/24/76-04/19/77	12	1.25	1.267	2.1	0.6	0.262	0.512	0.6	0.7	1.6	2.07
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/24/76-09/03/91	3	90.	92.	102.	84.	84.	9.165	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	02/24/76-04/19/77	12	5.	5.083	7.	3.	1.174	1.084	3.3	4.25	6.	6.7
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/03/91-09/03/91	12	324.5	317.75	345.	280.	624.568	24.991	280.	295.	340.5	344.1
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/24/76-04/19/77	12	295.	301.667	345.	275.	374.242	19.345	279.5	295.	303.75	342.
00300 OXYGEN, DISSOLVED MG/L	02/24/76-09/03/91	32	8.2	6.827	13.1	0.05	24.408	4.94	0.065	0.8	11.8	11.97
00400 PH (STANDARD UNITS)	02/24/76-09/03/91	15	7.9	8.033	8.7	7.4	0.167	0.408	7.46	7.7	8.4	8.58
00400 CONVERTED PH (STANDARD UNITS)	02/24/76-09/03/91	15	7.9	7.869	8.7	7.4	0.196	0.442	7.46	7.7	8.4	8.58
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/24/76-09/03/91	15	0.013	0.014	0.04	0.002	0.	0.012	0.003	0.004	0.02	0.035
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/24/76-04/19/77	12	148.	148.25	164.	135.	70.023	8.368	136.5	142.25	156.	162.2
00500 RESIDUE, TOTAL (MG/L)	02/24/76-04/19/77	12	196.	193.083	207.	173.	101.902	10.095	174.2	187.5	199.75	205.5
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/24/76-04/19/77	12	4.	6.333	16.	0.5	38.015	6.166	0.5	1.	12.75	15.4
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/24/76-04/19/77	12	0.21	0.219	0.31	0.15	0.003	0.052	0.156	0.18	0.265	0.307
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/76-09/03/91	15	0.013	0.053	0.166	0.001	0.004	0.063	0.001	0.002	0.115	0.162
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/03/91-09/03/91	3	0.35	0.37	0.51	0.25	0.017	0.131	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/24/76-09/03/91	15	0.31	0.227	0.35	0.001	0.018	0.136	0.006	0.1	0.34	0.344
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/24/76-09/03/91	15	0.01	0.012	0.036	0.005	0.	0.007	0.006	0.009	0.014	0.023
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	02/24/76-08/24/76	9	2.9	2.867	3.5	2.4	0.11	0.332	2.4	2.6	3.	3.5
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/24/76-04/19/77	12	162.5	164.667	190.	145.	177.697	13.33	148.	157.	168.75	190.
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/24/76-04/19/77	12	45.	45.75	51.	38.	14.386	3.793	39.2	44.	49.	50.7
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/76-04/19/77	12	12.	12.3	14.	11.6	0.655	0.809	11.63	12.	12.1	14.
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/24/76-04/19/77	12	3.7	3.592	4.	2.9	0.094	0.306	3.02	3.4	3.8	3.94
00935 POTASSIUM, DISSOLVED (MG/L AS K)	02/24/76-04/19/77	12	0.66	0.673	0.84	0.57	0.005	0.067	0.588	0.64	0.688	0.81
00940 CHLORIDE,TOTAL IN WATER MG/L	02/24/76-04/19/77	12	4.	4.	4.	4.	0.	0.	4.	4.	4.	4.
00946 SULFATE, DISSOLVED (MG/L AS SO4)	02/24/76-04/19/77	12	15.	14.833	17.	12.	2.152	1.467	12.3	14.	15.75	17.
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	02/24/76-04/19/77	12	3.15	2.942	5.	0.3	1.221	1.105	0.9	2.45	3.45	4.61
01045 IRON, TOTAL (UG/L AS FE)	02/24/76-04/19/77	12	44.	51.	130.	19.	1027.091	32.048	20.8	29.25	57.	119.5
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/24/76-04/19/77	12	185.5	186.833	207.	161.	132.515	11.512	165.5	184.	194.25	204.6
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/24/76-04/19/77	12	0.002	0.003	0.008	0.001	0.	0.002	0.001	0.001	0.004	0.007

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0036

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	12	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00
00300	OXYGEN, DISSOLVED	4.	29	8	0.28	15	8	0.53	3	0	0.00	8	0	0.00	3	0	0.00
00400	PH	9.	15	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00
		6.5	15	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	10.	15	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00
00940	CHLORIDE, TOTAL IN WATER	860.	12	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00
		250.	12	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	250.	12	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0037

NPS Station ID: SLBE0037	LAT/LON: 44.699476/ -86.104337	Agency: 11NPSWRD	Date Created: 11/30/96
Location: Platte Lake at 44 Foot Basin		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_PL_03	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: PLATTE		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle. The station lies in the northwest portion of Platte Lake at an approximate depth of 44 feet. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Assoc. PH. (810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH. (616)375-4611. This station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter National Park Service Water Resources Division Fort Collins Colorado. PH.(970) 225-3514.			

Parameter Inventory for Station: SLBE0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300 OXYGEN, DISSOLVED MG/L	03/23/93-03/23/93	3	12.7	12.767	13.2	12.4	0.163	0.404	**	**	**	**
00400 PH (STANDARD UNITS)	03/23/93-03/23/93	3	7.82	7.77	7.84	7.65	0.011	0.104	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	03/23/93-03/23/93	3	7.82	7.761	7.84	7.65	0.011	0.105	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/93-03/23/93	3	0.015	0.017	0.022	0.014	0.	0.004	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0037

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Other-Hi Lim.	9.	3	0	0.00							3	0	0.00			
	Other-Lo Lim.	6.5	3	0	0.00							3	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0038

NPS Station ID: SLBE0038 LAT/LON: 44.699726/ -86.113337

Location: BIG PLATTE LK-NW BASIN; BENZONIA TWP., SEC. 34

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104019

RF3 Index: 04060104043800.00

Description:

BIG PLATTE LAKE IN A 90 FEET DEEP BASIN IN THE NORTHWEST CORNER OF THE LAKE. THE BASIN IS LOCATED IN SECTION 34, BENZONIA TOWNSHIP, BENZIE COUNTY. SAMPLING SITE IS 2400 FEET SOUTH OF THE PLATTE RIVER OUTLET AND 1800 FEET EAST OF THE WEST SHORE. LAKE IS IN THE PLATTE RIVER BASIN. INLET- PLATTE RIVER. OUTLET- PLATTE RIVER. PUBLIC FISHING SITE ON NORTHWEST CORNER OF LAKE.

Depth of Water: 90

Elevation: 0

RF1 Mile Point: 3.580

RF3 Mile Point: 0.00

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100086 /AC02516.0

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 6.20

Distance from RF3: 0.12

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	199	10.5	11.74	24.	1.	29.509	5.432	5.	8.	16.	20.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/15/74-11/03/82	82	1.4	1.622	5.	0.5	0.732	0.856	0.8	1.1	1.925	2.47
00077	TRANSPARENCY, SECCHI DISC (INCHES)	09/15/74-04/20/87	19	108.	104.526	180.	42.	1245.263	35.288	54.	72.	126.	156.
00080	COLOR (PLATINUM-COBALT UNITS)	09/15/74-11/03/82	77	5.	5.766	15.	3.	5.603	2.367	3.	4.	7.	8.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/06/82-04/20/87	134	315.	312.888	390.	261.	534.551	23.12	282.5	293.	332.	339.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/15/74-11/03/82	82	315.	312.805	355.	270.	284.628	16.871	285.	303.75	325.	333.5
00300p	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	199	8.4	6.609	12.2	0.05	17.74	4.212	0.2	1.9	10.	11.5
00400p	PH (STANDARD UNITS)	09/15/74-04/20/87	159	8.1	8.118	8.8	7.3	0.149	0.386	7.6	7.8	8.5	8.6
00400p	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	159	8.1	7.957	8.8	7.3	0.175	0.418	7.6	7.8	8.5	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	159	0.008	0.011	0.05	0.002	0.	0.009	0.003	0.003	0.016	0.025
00403	PH, LAB, STANDARD UNITS SU	05/06/82-11/03/82	65	8.3	8.16	8.8	7.5	0.14	0.374	7.6	7.75	8.5	8.54
00403	CONVERTED PH, LAB, STANDARD UNITS	05/06/82-11/03/82	65	8.3	7.997	8.8	7.5	0.167	0.408	7.6	7.75	8.5	8.54
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/06/82-11/03/82	65	0.005	0.01	0.032	0.002	0.	0.009	0.003	0.003	0.018	0.025
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/15/74-04/20/87	89	147.	147.202	171.	130.	78.731	8.873	134.	142.	151.5	159.
00425	ALKALINITY, BICARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	60	148.	146.217	171.	110.	140.715	11.862	132.	140.25	152.	159.8
00430	ALKALINITY, CARBONATE (MG/L AS CaCO3)	04/21/82-11/03/82	55	0.	1.418	20.	0.	17.433	4.175	0.	0.	0.	6.8
00500	RESIDUE, TOTAL (MG/L)	09/15/74-08/24/76	12	191.5	189.5	203.	172.	110.636	10.518	172.6	179.25	198.25	202.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-08/14/84	87 ##	2.	3.322	10.	0.5	4.674	2.162	2.	2.	5.	7.
00605p	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/15/74-04/20/87	96	0.23	0.229	0.46	0.11	0.003	0.051	0.16	0.2	0.26	0.29
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/74-04/20/87	96	0.042	0.094	0.67	0.001	0.02	0.14	0.004	0.01	0.096	0.407
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/82-04/30/85	23	0.006	0.008	0.057	0.001	0.	0.011	0.002	0.004	0.009	0.012
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/21/82-04/20/87	84	0.28	0.324	0.88	0.17	0.019	0.137	0.22	0.253	0.32	0.535
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/74-04/20/87	94	0.12	0.144	0.35	0.001	0.013	0.113	0.01	0.04	0.25	0.32
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/74-04/20/87	96	0.009	0.01	0.04	0.002	0.	0.005	0.006	0.007	0.012	0.014
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/82-11/03/82	15 ##	0.001	0.001	0.003	-0.001	0.	0.001	0.001	0.001	0.001	0.002
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/24/76-08/24/76	9	3.2	3.178	4.1	2.6	0.199	0.447	2.6	2.8	3.4	4.1
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	09/15/74-08/24/76	12	164.5	166.25	185.	140.	153.659	12.396	144.5	160.75	173.75	185.
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	02/24/76-08/24/76	9	44.	44.111	48.	37.	10.361	3.219	37.	43.5	46.5	48.
00916p	CALCIUM, TOTAL (MG/L AS Ca)	09/15/74-04/20/87	78	42.	41.44	47.	36.	8.19	2.862	37.9	39.	44.	45.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/76-08/24/76	9	12.1	12.7	14.	12.	0.953	0.976	12.	12.	14.	14.
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	09/15/74-04/20/87	78	12.	11.772	13.	10.2	0.278	0.528	11.	11.3	12.	12.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929p SODIUM, TOTAL (MG/L AS NA)	09/15/74-04/20/87	78	4.	3.974	5.2	3.	0.28	0.53	3.	3.7	4.1	5.
00930 SODIUM, DISSOLVED (MG/L AS NA)	02/24/76-08/24/76	9	3.6	3.7	4.5	3.4	0.133	0.364	3.4	3.4	3.9	4.5
00935 POTASSIUM, DISSOLVED (MG/L AS K)	02/24/76-08/24/76	9	0.69	0.698	0.84	0.59	0.005	0.074	0.59	0.65	0.75	0.84
00937p POTASSIUM, TOTAL MG/L AS K)	09/15/74-04/20/87	78	0.6	0.65	0.8	0.5	0.004	0.06	0.6	0.6	0.7	0.7
00940p CHLORIDE, TOTAL IN WATER MG/L	09/15/74-04/20/87	89	4.	4.056	5.	3.	0.076	0.276	4.	4.	4.	4.
00945 SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/20/87	77	11.	10.896	16.	5.	4.515	2.125	8.	9.	12.	14.
00946 SULFATE, DISSOLVED (MG/L AS SO4)	09/15/74-08/24/76	12	14.	13.7	17.	8.4	7.662	2.768	9.18	11.25	16.75	17.
00958p SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/15/74-04/30/85	90	2.6	2.624	5.3	0.2	1.462	1.209	1.023	1.64	3.325	4.4
01045 IRON, TOTAL (UG/L AS FE)	09/15/74-08/24/76	12	42.	88.5	440.	19.	14742.091	121.417	19.3	25.	84.75	368.
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	09/15/74-04/20/87	6	2.8	2.9	3.4	2.6	0.076	0.276	**	**	**	**
70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	04/21/82-08/14/84	75	176.	179.653	440.	120.	1364.689	36.942	151.2	160.	192.	200.
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/15/74-08/24/76	12	186.	186.083	199.	165.	106.265	10.308	167.7	178.75	195.75	198.7
70507p PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/15/74-04/30/85	64 ##	0.001	0.001	0.02	0.001	0.	0.003	0.001	0.001	0.002	0.003

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

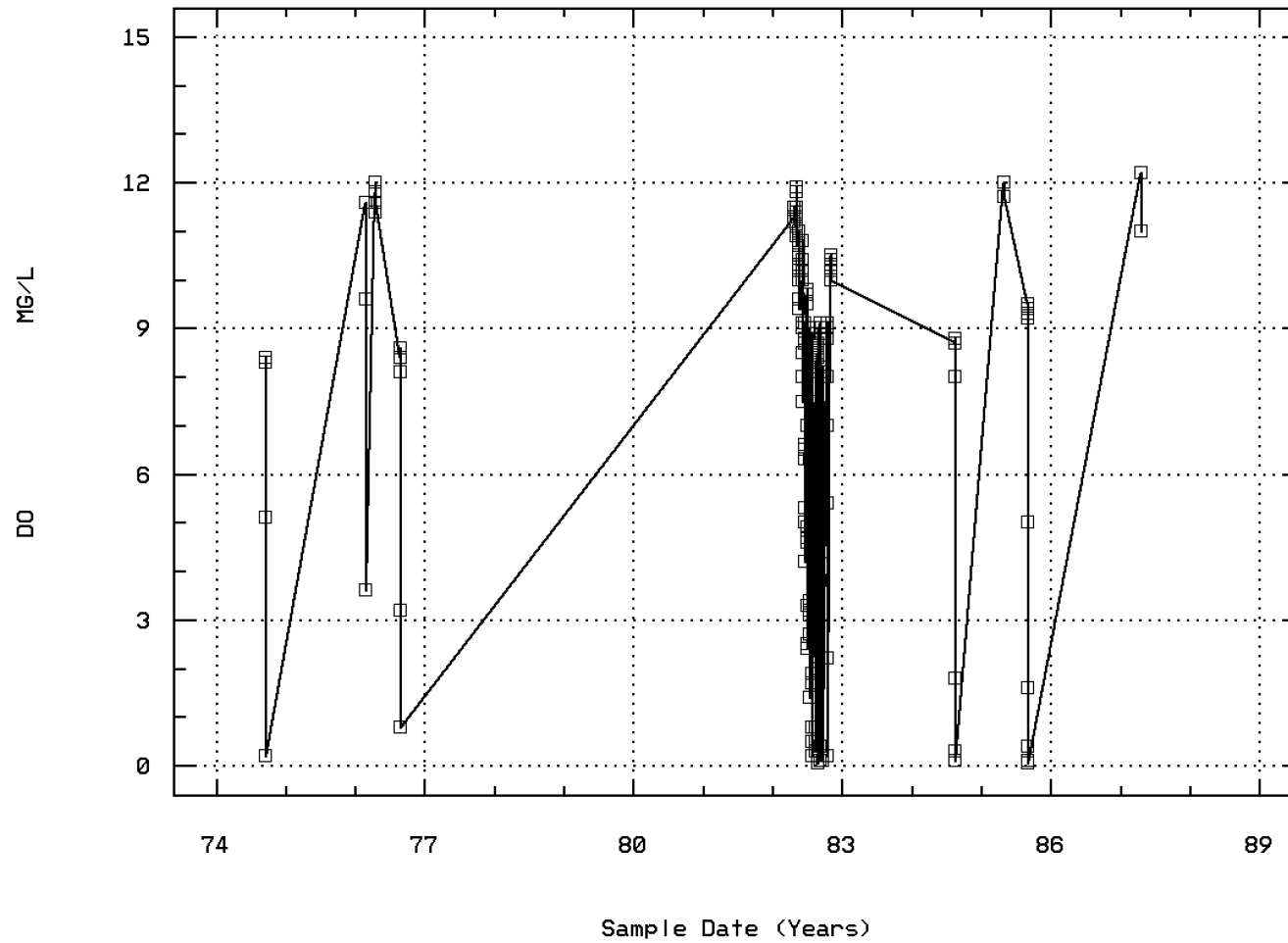
EPA Water Quality Criteria Analysis for Station: SLBE0038

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	82	0	0.00	36	0	0.00	3	0	0.00	3	0	0.00	40	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	194 &	58	0.30	94	42	0.45	3	1	0.33	10	0	0.00	87	15	0.17
00400 PH	Other-Hi Lim.	9.	159	0	0.00	87	0	0.00	3	0	0.00	3	0	0.00	66	0	0.00
	Other-Lo Lim.	6.5	159	0	0.00	87	0	0.00	3	0	0.00	3	0	0.00	66	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	65	0	0.00	30	0	0.00							35	0	0.00
	Other-Lo Lim.	6.5	65	0	0.00	30	0	0.00							35	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	23	0	0.00	5	0	0.00							18	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	94	0	0.00	42	0	0.00	3	0	0.00	3	0	0.00	46	0	0.00
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	89	0	0.00	39	0	0.00	3	0	0.00	3	0	0.00	44	0	0.00
	Drinking Water	250.	89	0	0.00	39	0	0.00	3	0	0.00	3	0	0.00	44	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	77	0	0.00	33	0	0.00							44	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	12	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0038 Parameter Code: 00300

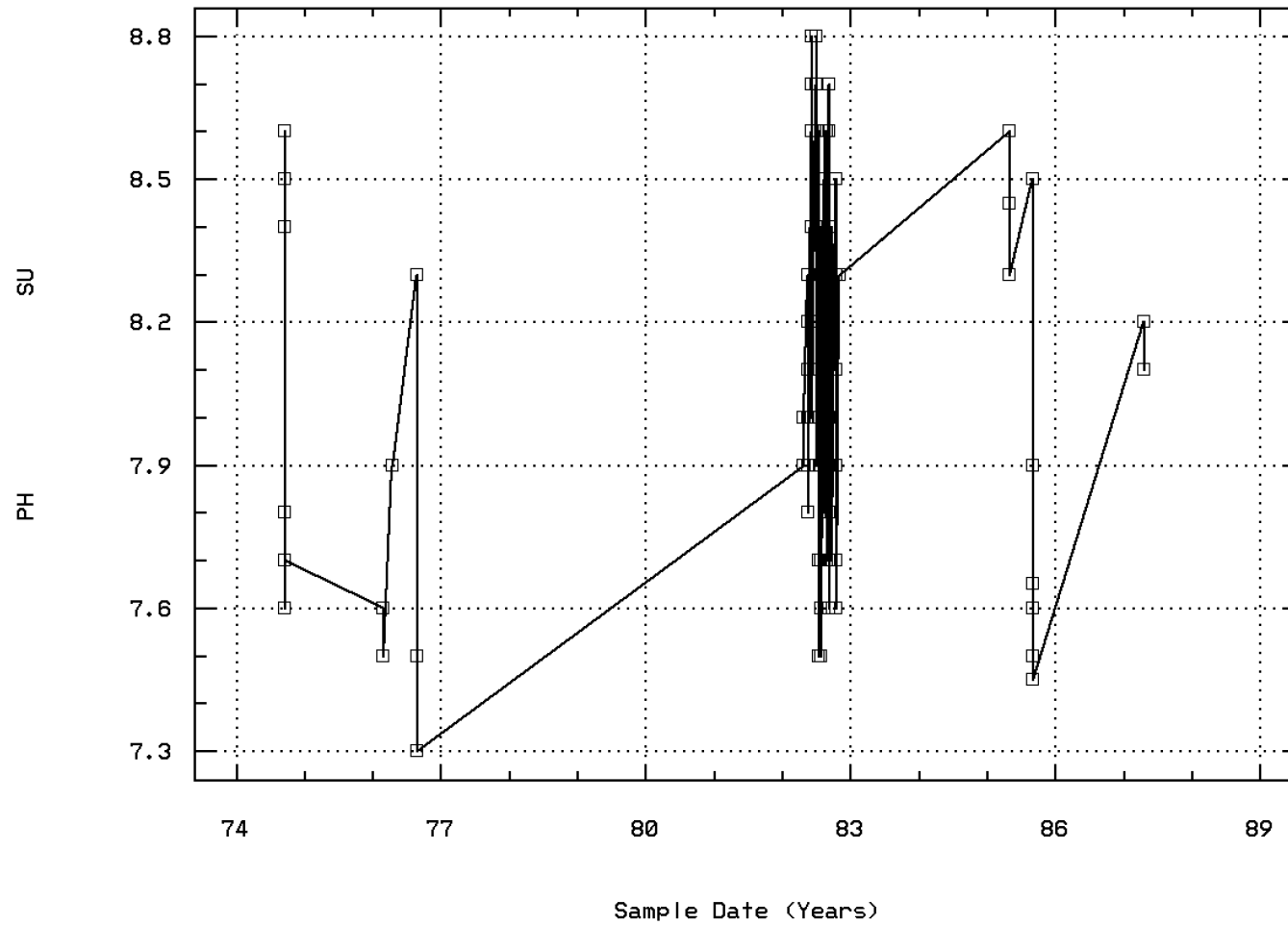
OXYGEN, DISSOLVED



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00400

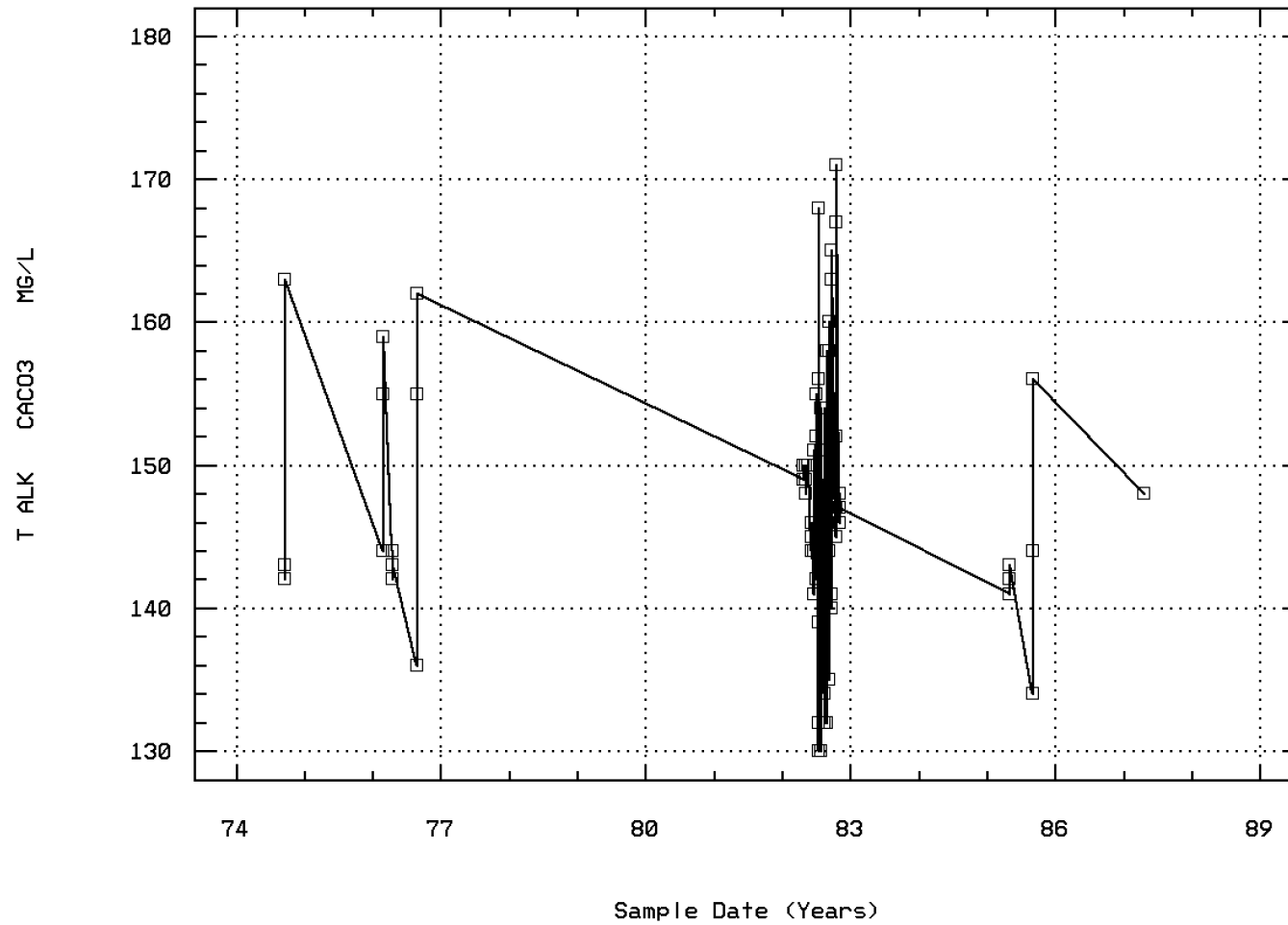
PH (STANDARD UNITS)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00410

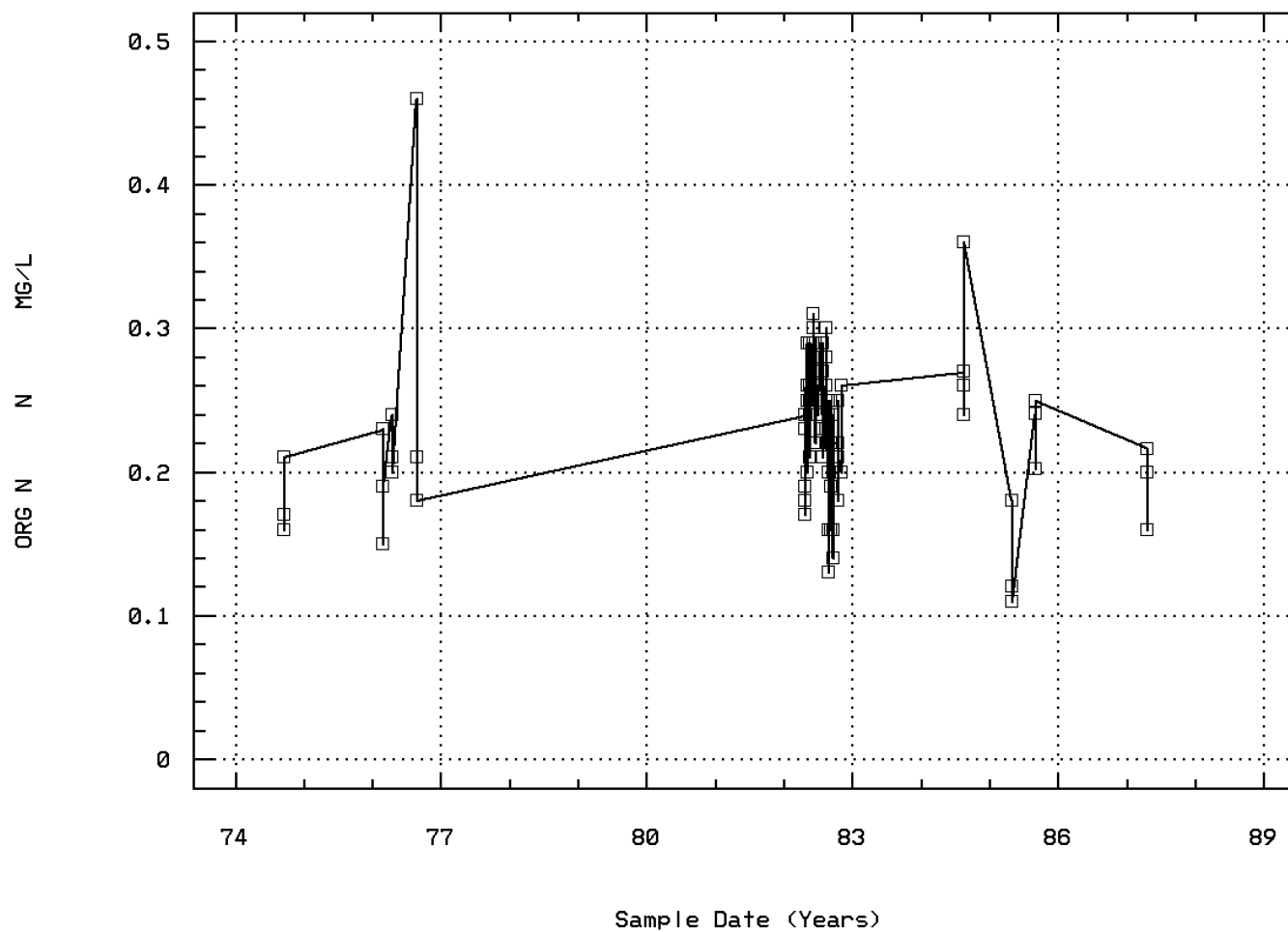
ALKALINITY, TOTAL (MG/L AS CaCO3)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00605

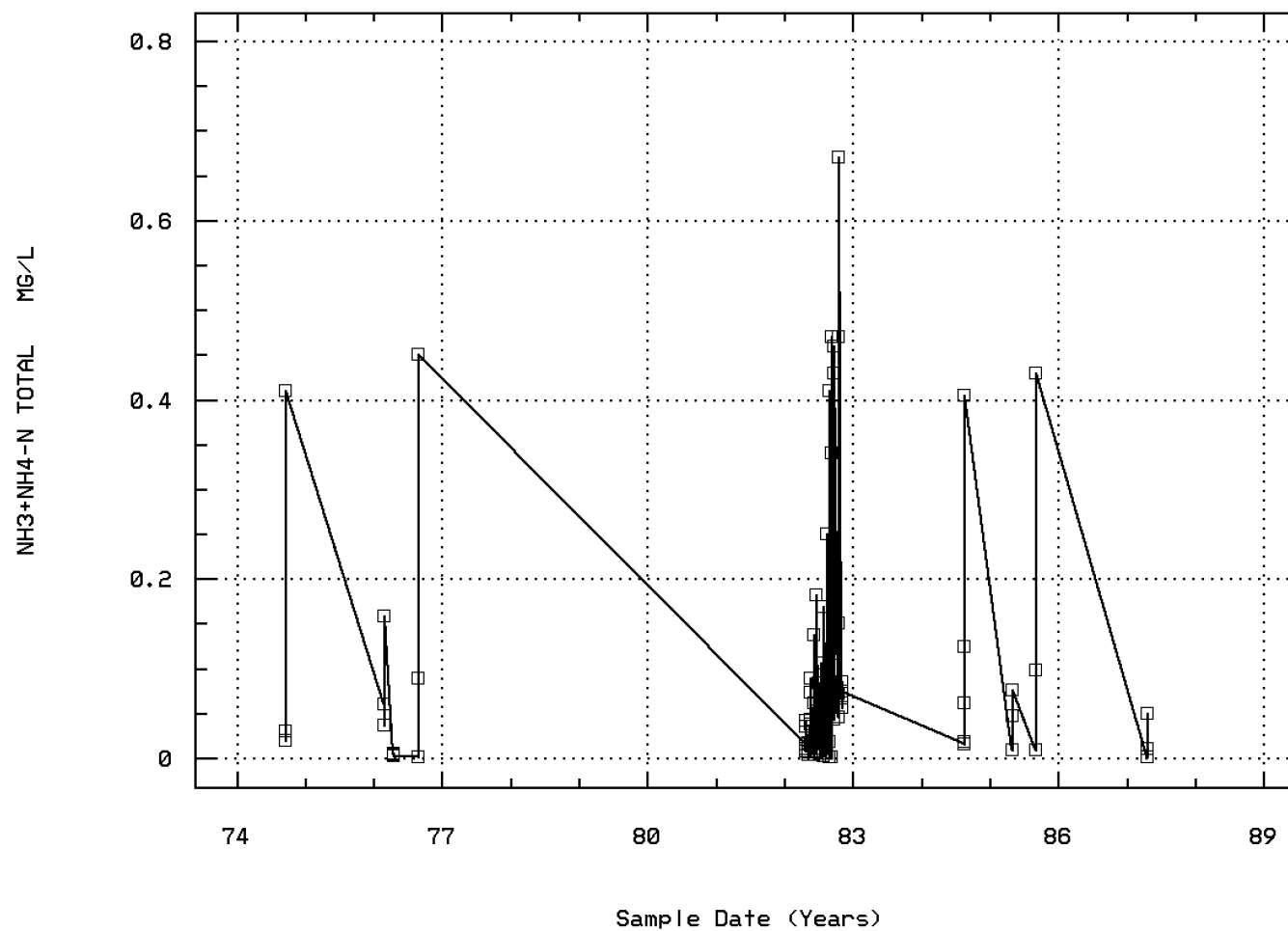
NITROGEN, ORGANIC, TOTAL (MG/L AS N)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00610

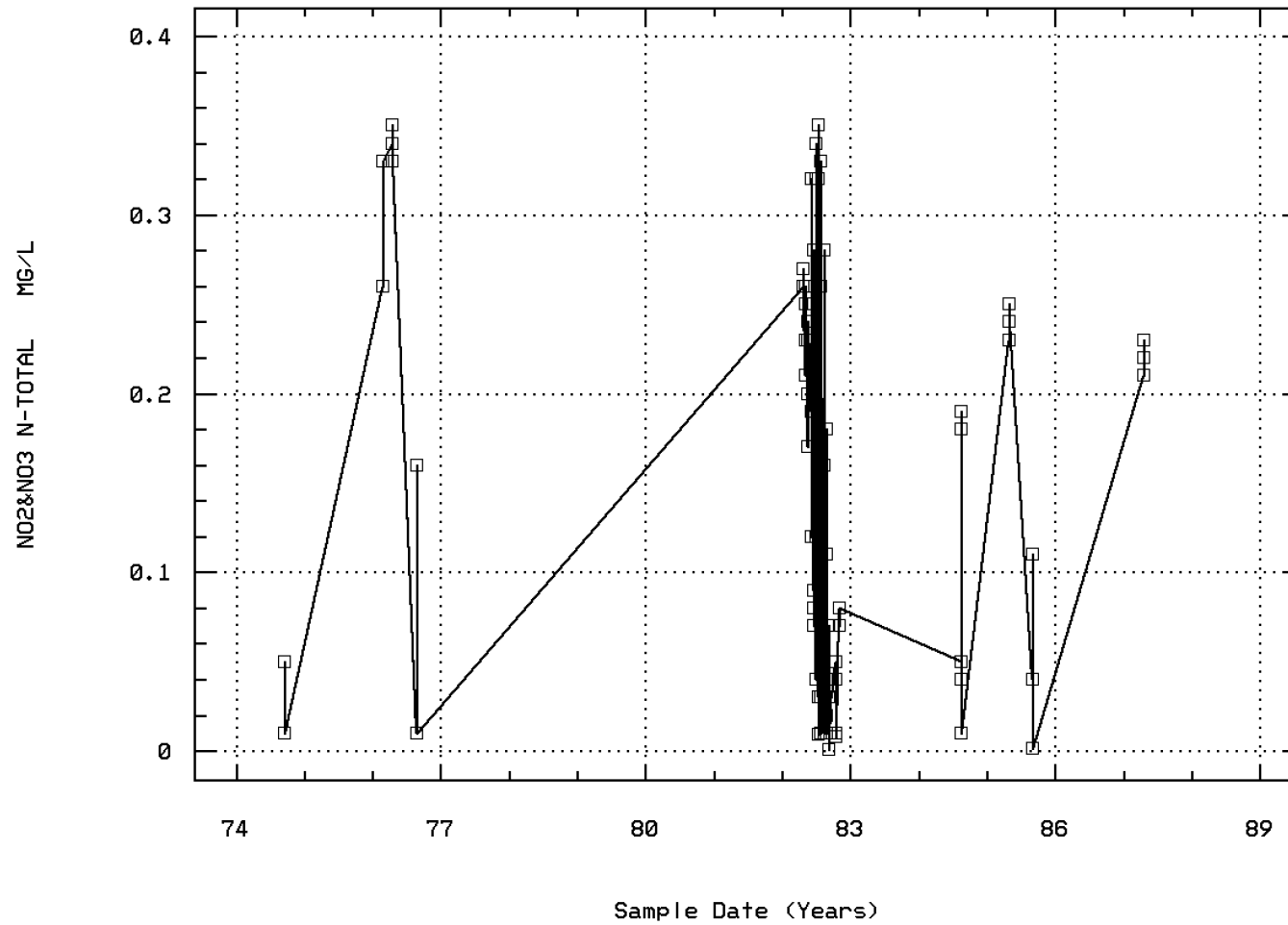
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00630

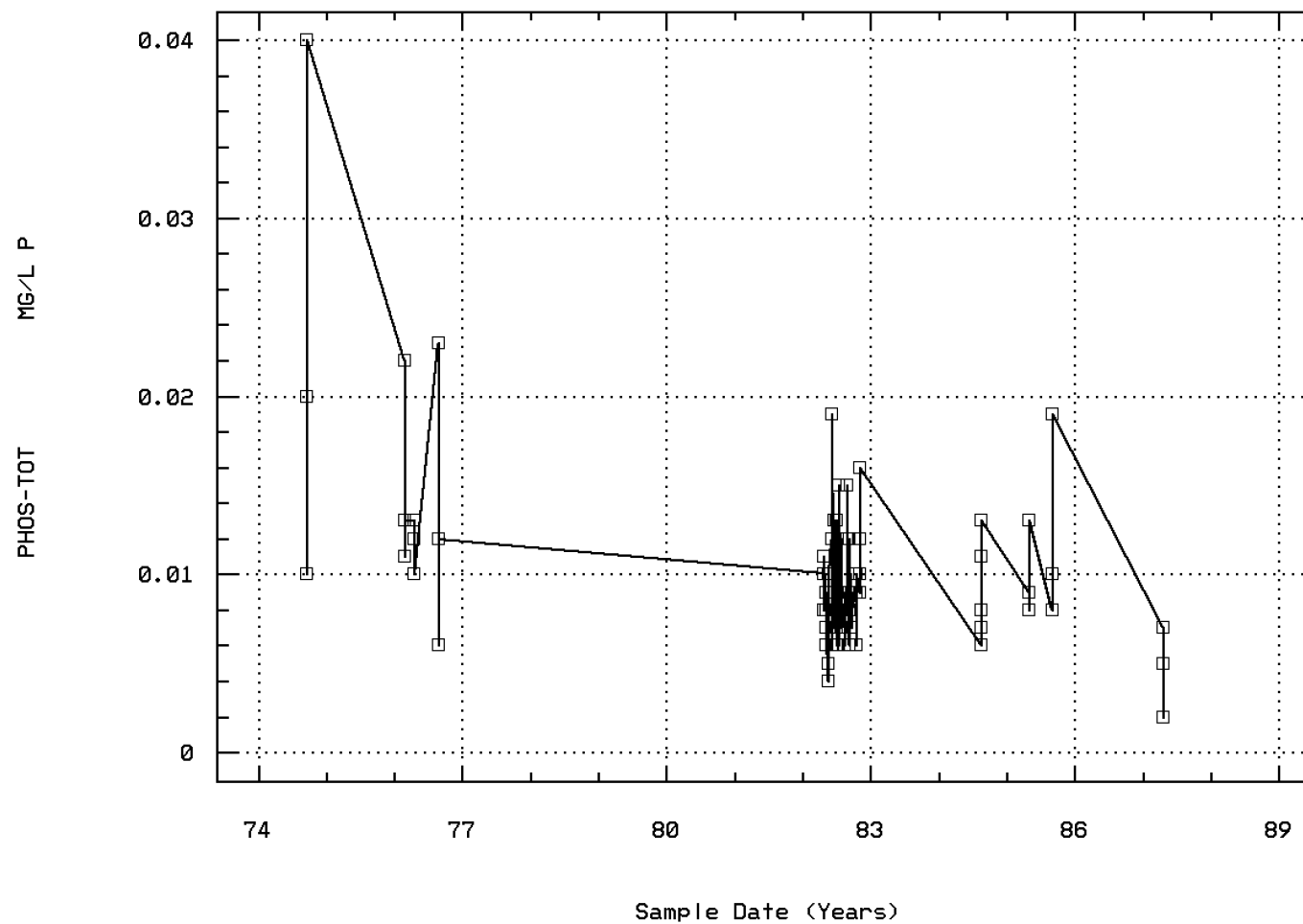
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00665

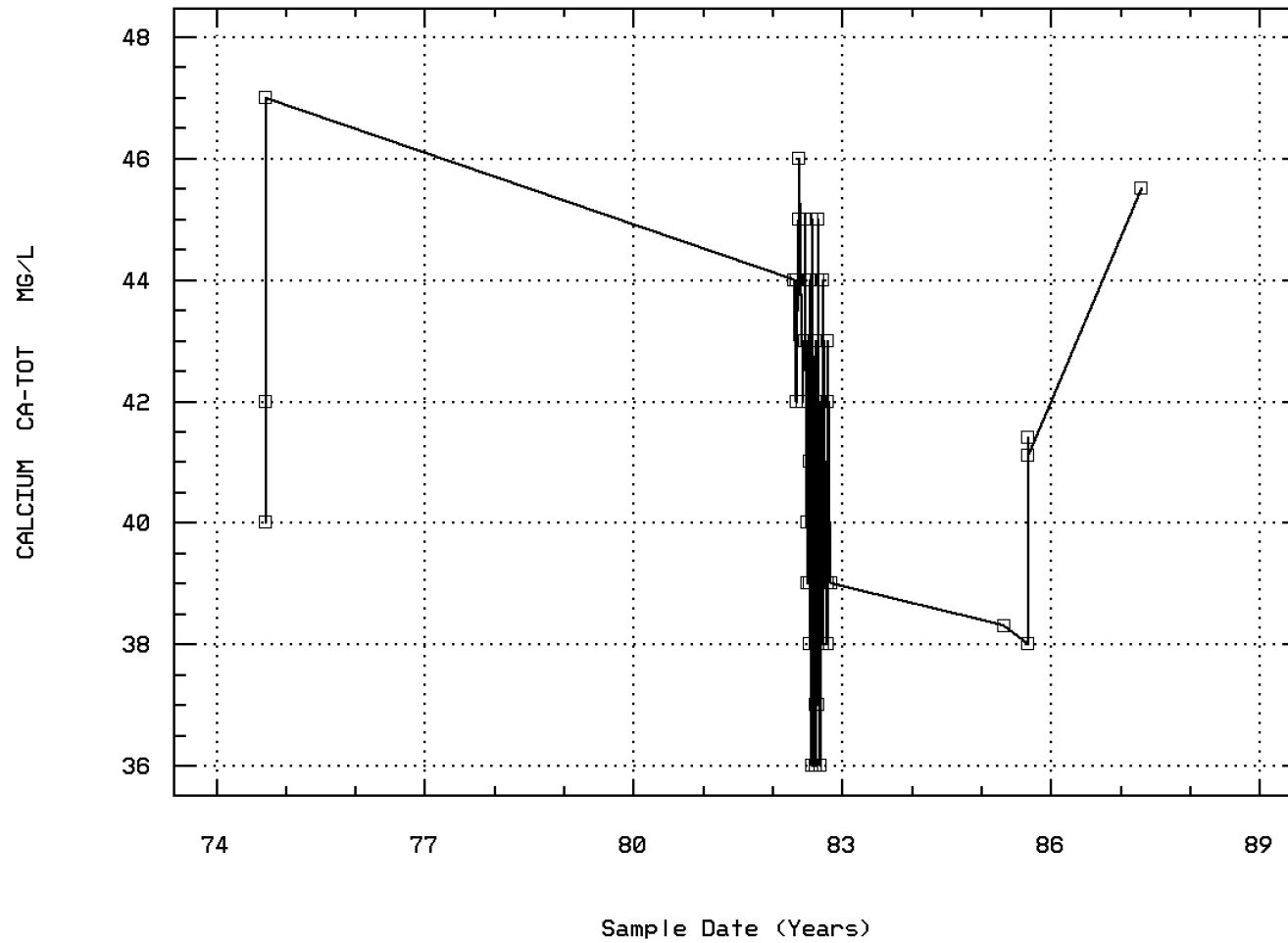
PHOSPHORUS, TOTAL (MG/L AS P)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

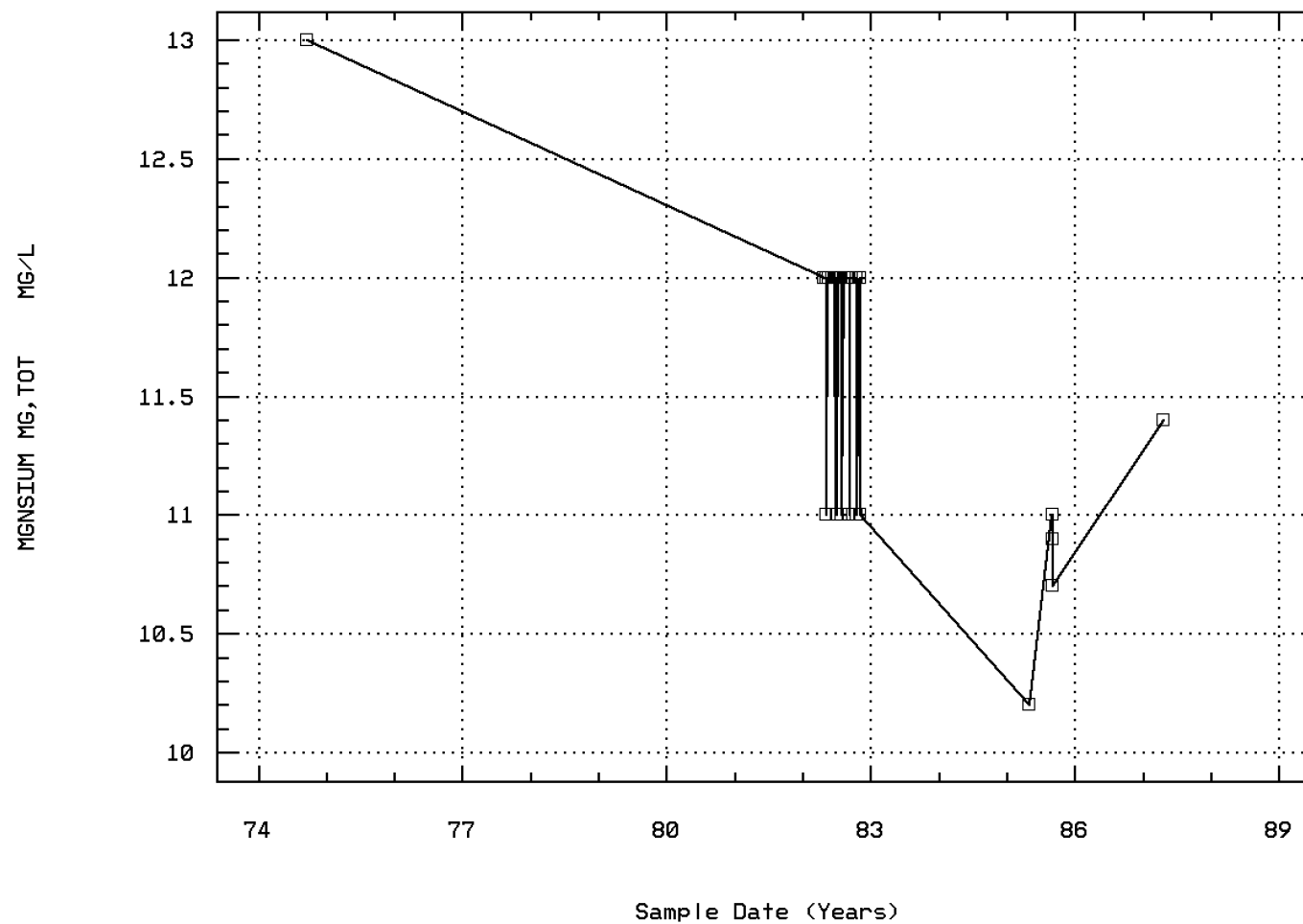
Station: SLBE0038 Parameter Code: 00916

CALCIUM, TOTAL (MG/L AS CA)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

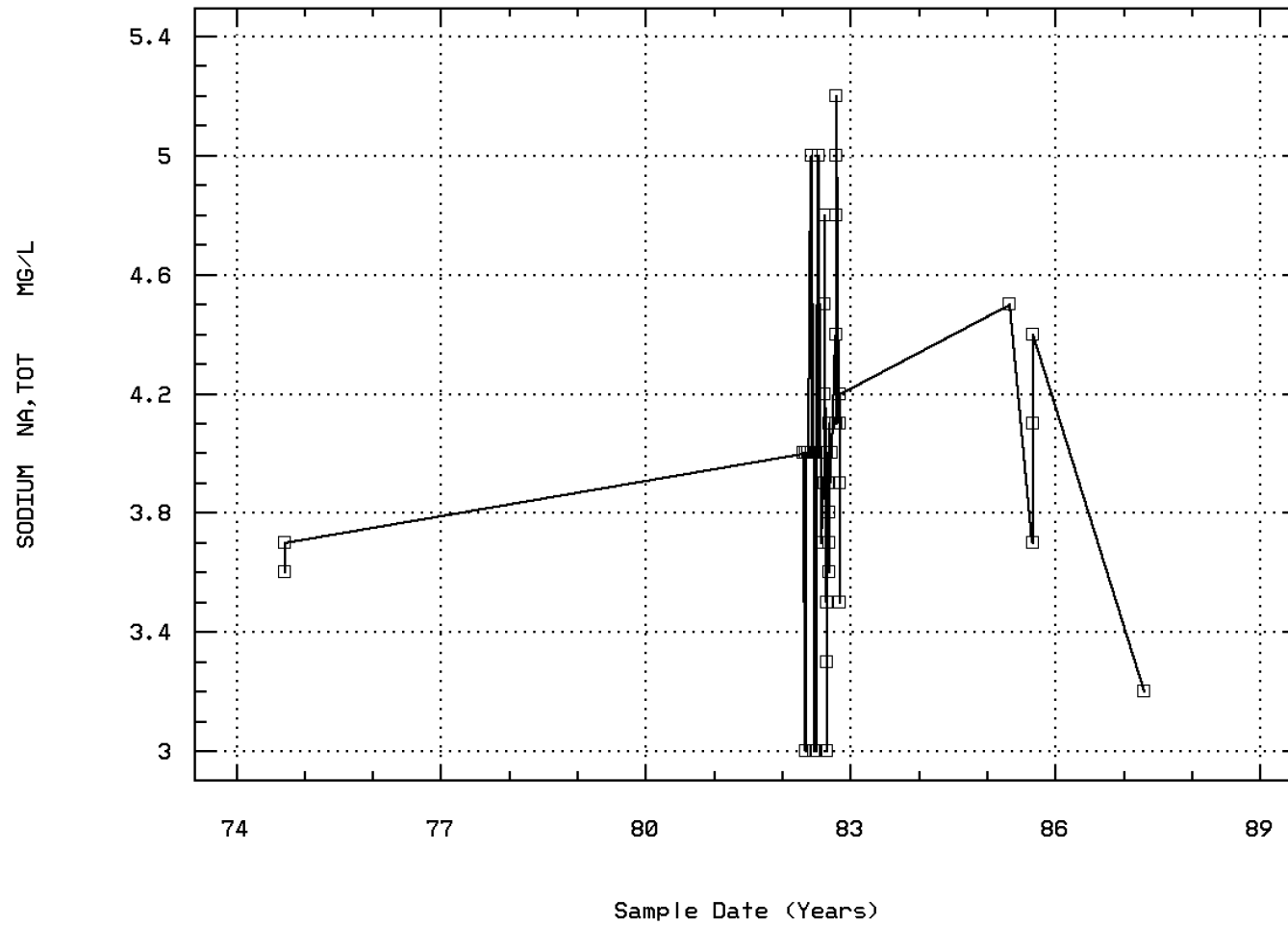
MAGNESIUM, TOTAL (MG/L AS MG)



293

Station: SLBE0038 Parameter Code: 00929

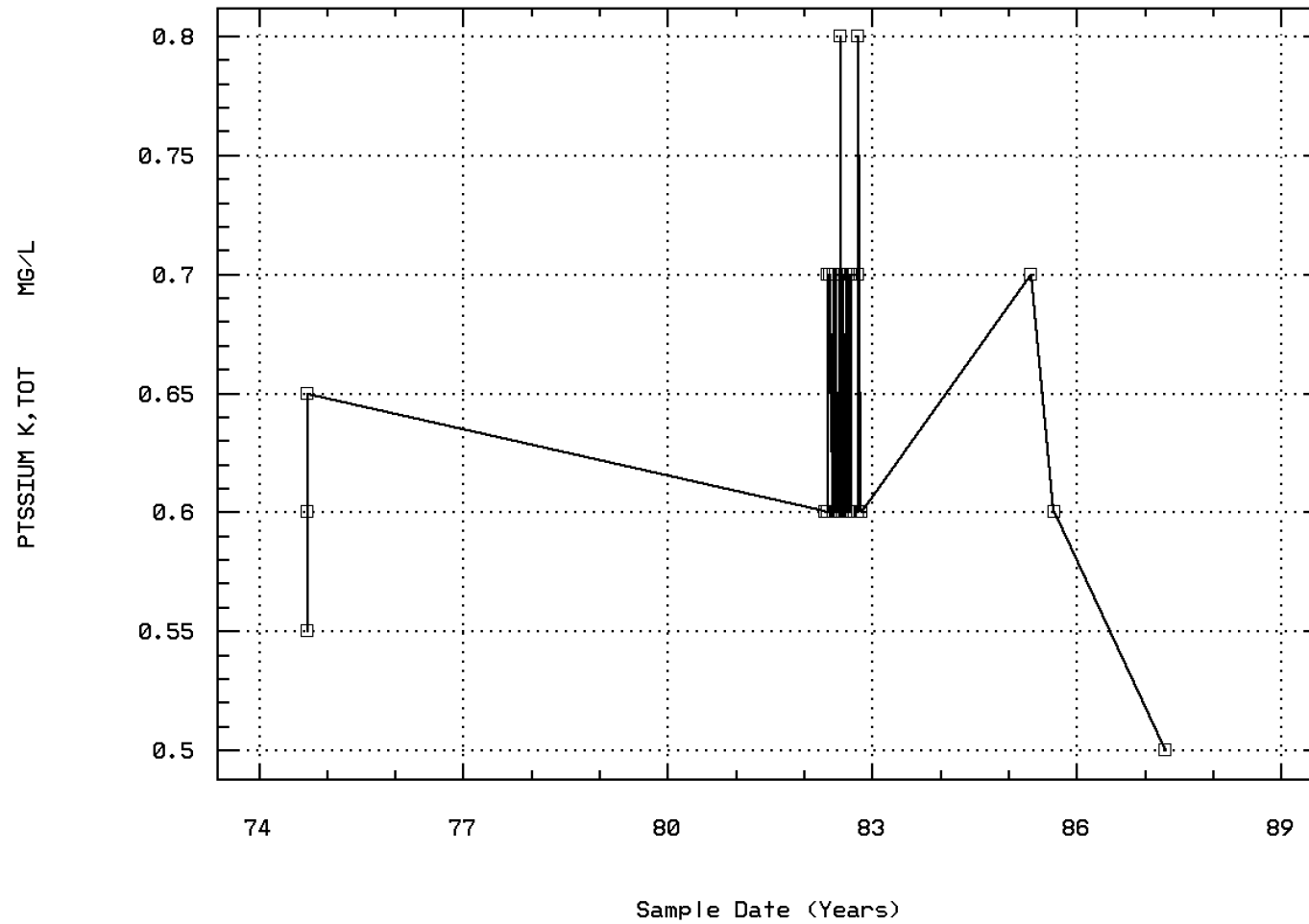
SODIUM, TOTAL (MG/L AS NA)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00937

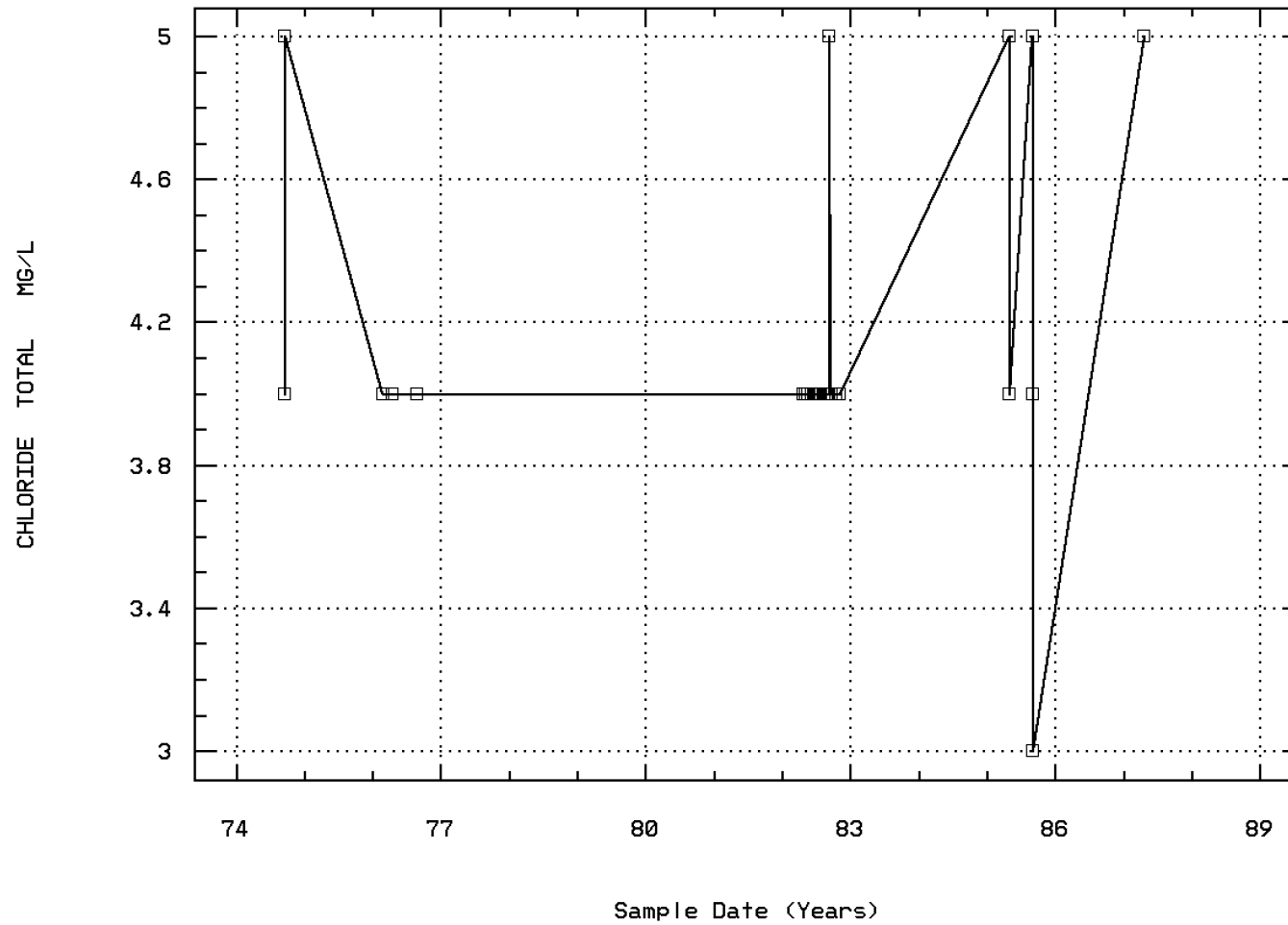
POTASSIUM, TOTAL MG/L AS K)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00940

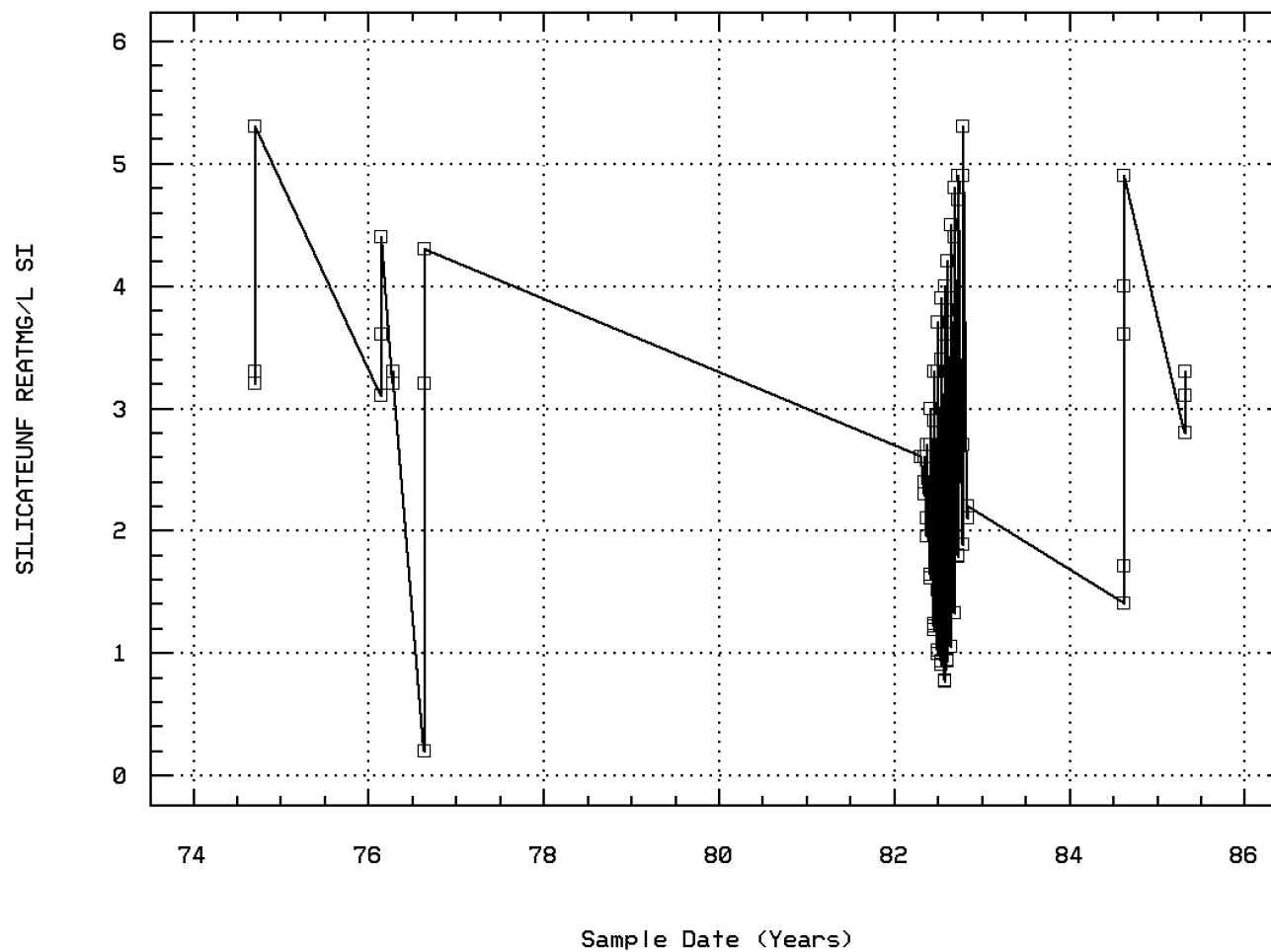
CHLORIDE, TOTAL IN WATER



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00958

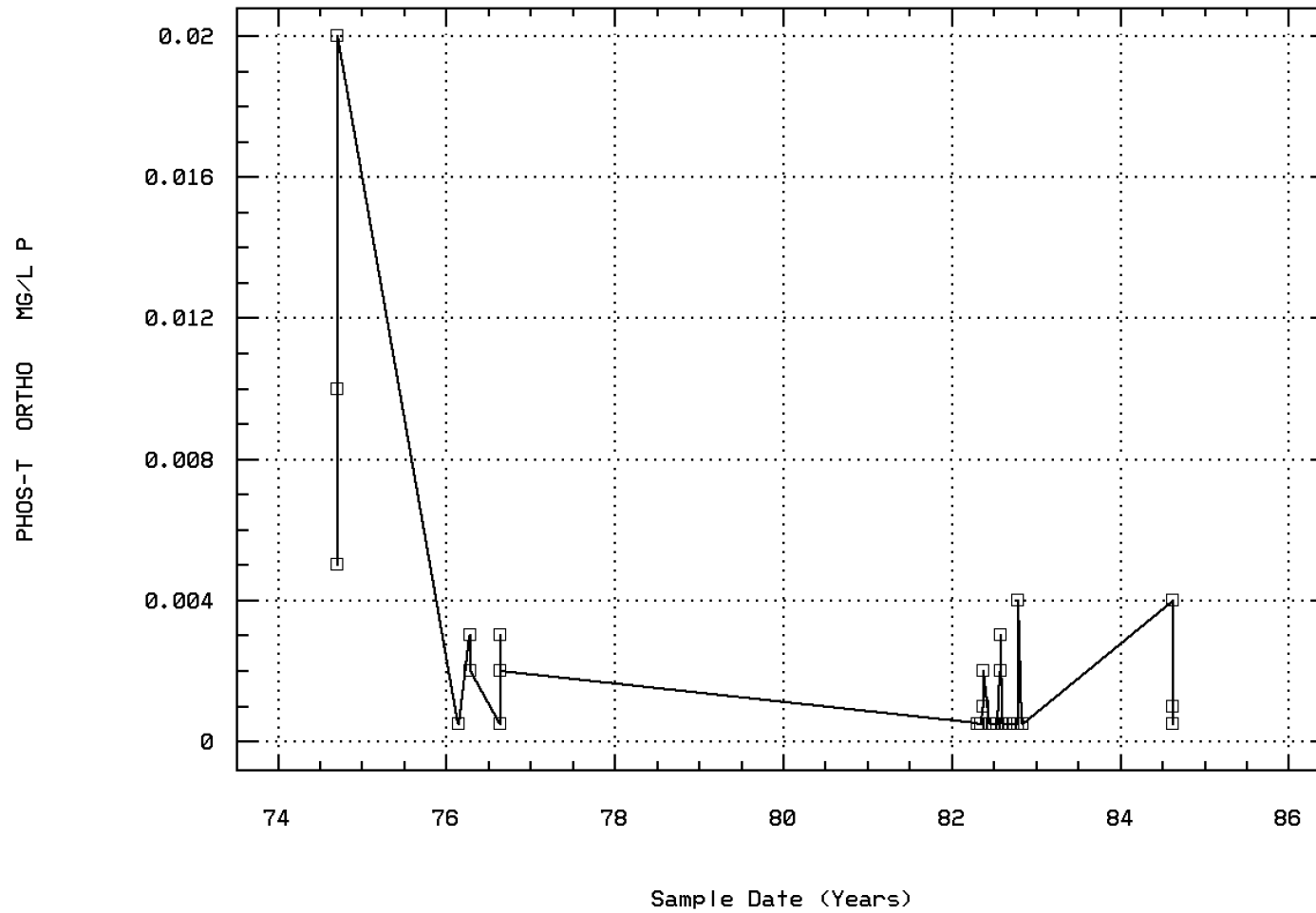
SILICATE, UNFILTERED REACTIVE (MG/L



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Annual Analysis for 1974 - Station SLBE0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	10	16.5	15.25	18.5	11.	12.403	3.522	11.	11.	18.5	18.5
00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	10	2.65	3.95	8.4	0.2	16.565	4.07	0.2	0.2	8.325	8.4
00400	PH (STANDARD UNITS)	09/15/74-04/20/87	10	8.1	8.14	8.6	7.6	0.185	0.43	7.61	7.775	8.6	8.6
00400	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	10	8.004	7.969	8.6	7.6	0.217	0.466	7.61	7.775	8.6	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	10	0.01	0.011	0.025	0.003	0.	0.009	0.003	0.003	0.017	0.025

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1976 - Station SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	23	5.	9.309	22.	1.	46.884	6.847	2.32	5.	12.5	22.
00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	23	9.6	7.97	12.	0.8	20.956	4.578	0.8	3.2	11.8	12.
00400	PH (STANDARD UNITS)	09/15/74-04/20/87	9	7.6	7.722	8.3	7.3	0.092	0.303	7.3	7.5	7.9	8.3
00400	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	9	7.6	7.64	8.3	7.3	0.1	0.316	7.3	7.5	7.9	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	9	0.025	0.023	0.05	0.005	0.	0.014	0.005	0.013	0.032	0.05

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	139	10.1	12.04	24.	3.2	26.307	5.129	6.	8.5	16.8	20.5
00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	142	8.45	6.768	11.9	0.05	15.471	3.933	0.3	3.	10.	11.1
00400	PH (STANDARD UNITS)	09/15/74-04/20/87	122	8.15	8.159	8.8	7.5	0.132	0.364	7.7	7.8	8.5	8.6
00400	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	122	8.147	8.017	8.8	7.5	0.152	0.39	7.7	7.8	8.5	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	122	0.007	0.01	0.032	0.002	0.	0.008	0.003	0.003	0.016	0.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station SLBE0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	9	7.8	8.267	15.	2.2	27.913	5.283	2.2	2.75	14.15	15.
00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	7	1.8	3.971	8.8	0.1	18.346	4.283	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station SLBE0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	15	12.3	13.24	20.5	5.8	25.62	5.062	7.12	8.9	20.2	20.32
00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	15	5.	5.36	12.	0.05	26.53	5.151	0.05	0.05	9.5	12.
00400	PH (STANDARD UNITS)	09/15/74-04/20/87	15	7.9	7.993	8.6	7.45	0.236	0.485	7.45	7.5	8.5	8.54
00400	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	15	7.9	7.779	8.6	7.45	0.285	0.534	7.45	7.5	8.5	8.54
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	15	0.013	0.017	0.035	0.003	0.	0.014	0.003	0.003	0.032	0.035

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	3	6.2	7.733	11.8	5.2	12.653	3.557	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	2	11.6	11.6	12.2	11.	0.72	0.849	**	**	**	**
00400	PH (STANDARD UNITS)	09/15/74-04/20/87	3	8.2	8.167	8.2	8.1	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	3	8.2	8.164	8.2	8.1	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	3	0.006	0.007	0.008	0.006	0.	0.001	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	103	12.5	13.165	22.	2.2	22.238	4.716	8.5	9.3	16.8	20.5
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	09/15/74-04/20/87	9	114.	116.	156.	84.	549.	23.431	84.	96.	135.	156.
00300p	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	99	5.1	4.683	10.5	0.05	16.49	4.061	0.1	0.3	8.5	9.1
00400p	PH (STANDARD UNITS)	09/15/74-04/20/87	87	8.1	8.099	8.7	7.3	0.164	0.405	7.6	7.7	8.5	8.6
00400p	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	87	8.1	7.924	8.7	7.3	0.196	0.442	7.6	7.7	8.5	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	87	0.008	0.012	0.05	0.002	0.	0.01	0.003	0.003	0.02	0.025
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/15/74-04/20/87	39	147.	148.077	171.	132.	116.178	10.779	134.	140.	156.	163.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-08/14/84	41 ##	2.	3.537	10.	0.5	5.092	2.257	2.	2.	6.	6.8
00605p	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/15/74-04/20/87	44	0.215	0.223	0.46	0.13	0.003	0.058	0.16	0.193	0.25	0.275
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/74-04/20/87	44	0.08	0.161	0.67	0.001	0.032	0.18	0.005	0.024	0.318	0.455
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/74-04/20/87	42	0.04	0.061	0.28	0.001	0.004	0.062	0.01	0.01	0.073	0.174
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/74-04/20/87	44	0.009	0.011	0.04	0.006	0.	0.006	0.006	0.008	0.012	0.018
00916	CALCIUM, TOTAL (MG/L AS Ca)	09/15/74-04/20/87	36	39.	40.181	47.	36.	7.771	2.788	36.7	38.	42.	44.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/15/74-04/20/87	36	12.	11.85	13.	10.7	0.317	0.563	11.	12.	12.	12.3
00929	SODIUM, TOTAL (MG/L AS Na)	09/15/74-04/20/87	36	4.	4.006	5.2	3.	0.214	0.462	3.5	3.7	4.175	4.8
00937	POTASSIUM, TOTAL MG/L AS K)	09/15/74-04/20/87	36	0.7	0.658	0.8	0.55	0.004	0.062	0.6	0.6	0.7	0.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/15/74-04/20/87	39	4.	4.051	5.	3.	0.103	0.32	4.	4.	4.	4.
00958p	SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	09/15/74-04/30/85	41	2.6	2.854	5.3	0.2	2.079	1.442	1.05	1.75	4.25	4.9
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/15/74-04/30/85	31 ##	0.001	0.002	0.02	0.001	0.	0.004	0.001	0.001	0.001	0.005

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	3	2.	1.933	2.8	1.	0.813	0.902	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	3	9.6	8.267	11.6	3.6	17.333	4.163	**	**	**	**
00400p	PH (STANDARD UNITS)	09/15/74-04/20/87	3	7.6	7.567	7.6	7.5	0.003	0.058	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	3	7.6	7.564	7.6	7.5	0.003	0.058	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	3	0.025	0.027	0.032	0.025	0.	0.004	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/15/74-04/20/87	3	155.	152.667	159.	144.	60.333	7.767	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-08/14/84	3##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00605p	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/15/74-04/20/87	3	0.19	0.19	0.23	0.15	0.002	0.04	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/74-04/20/87	3	0.06	0.085	0.158	0.037	0.004	0.064	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/74-04/20/87	3	0.33	0.307	0.33	0.26	0.002	0.04	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/74-04/20/87	3	0.013	0.015	0.022	0.011	0.	0.006	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	09/15/74-04/20/87	3	4.	4.	4.	4.	0.	0.	**	**	**	**
00958p	SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	09/15/74-04/30/85	3	3.6	3.7	4.4	3.1	0.43	0.656	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/15/74-04/30/85	3##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	10	5.	5.03	5.3	5.	0.009	0.095	5.	5.	5.	5.27
00300p	OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	10	11.8	11.78	12.	11.4	0.04	0.199	11.42	11.6	12.	12.
00400p	PH (STANDARD UNITS)	09/15/74-04/20/87	3	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	3	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	3	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/15/74-04/20/87	3	143.	143.	144.	142.	1.	1.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-08/14/84	3	7.	6.	8.	3.	7.	2.646	**	**	**	**
00605p	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/15/74-04/20/87	3	0.21	0.217	0.24	0.2	0.	0.021	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/74-04/20/87	3	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/74-04/20/87	3	0.34	0.34	0.35	0.33	0.	0.01	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/15/74-04/20/87	3	0.012	0.012	0.013	0.01	0.	0.002	**	**	**	**
00940p CHLORIDE,TOTAL IN WATER MG/L	09/15/74-04/20/87	3	4.	4.	4.	4.	0.	0.	**	**	**	**
00958p SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/15/74-04/30/85	3	3.2	3.233	3.3	3.2	0.003	0.058	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/15/74-04/30/85	3	0.002	0.002	0.003	0.002	0.	0.001	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

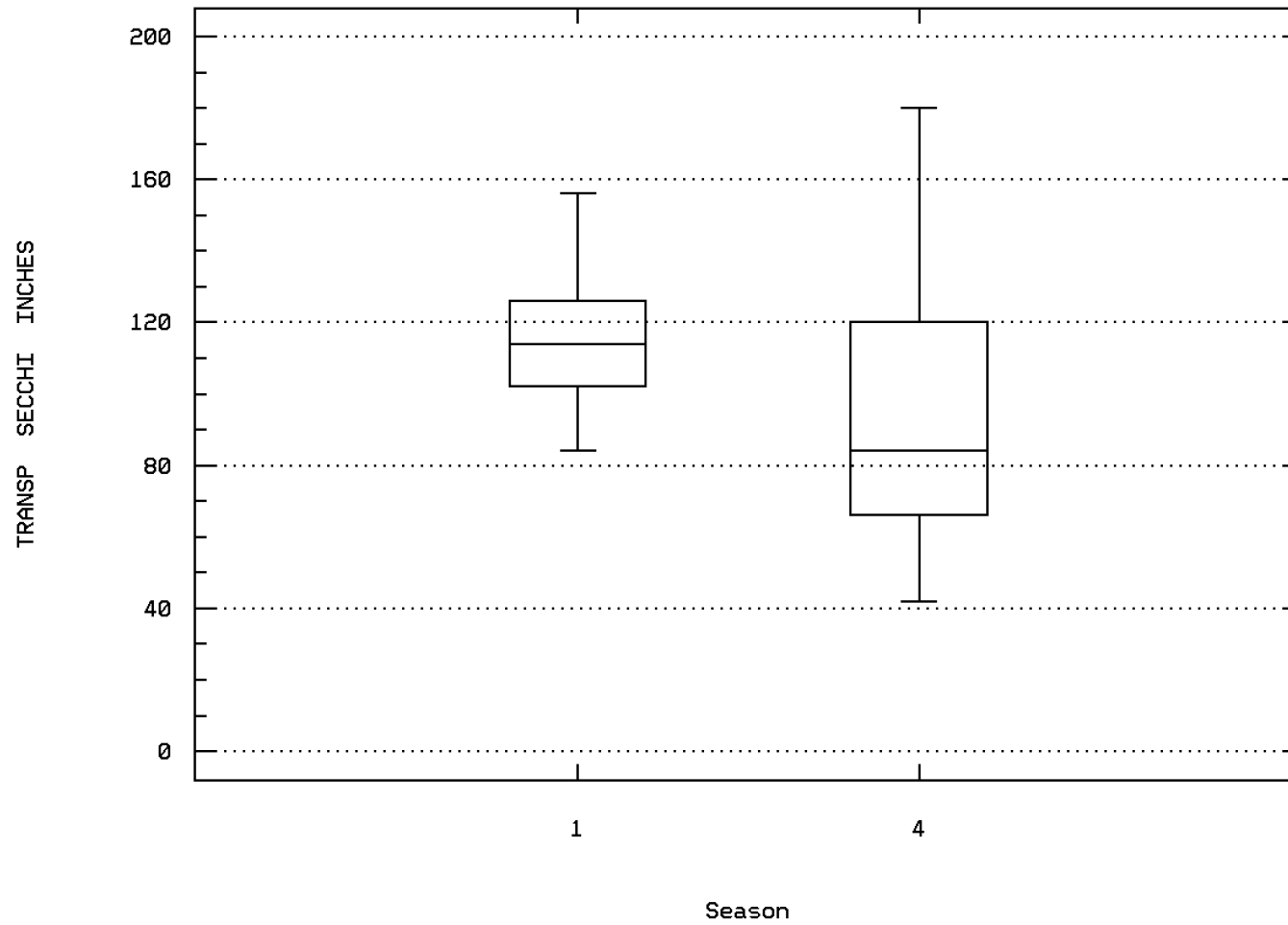
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/15/74-04/20/87	83	9.	11.135	24.	3.2	31.641	5.625	5.5	6.9	17.	20.6
00077p TRANSPARENCY, SECCHI DISC (INCHES)	09/15/74-04/20/87	10	84.	94.2	180.	42.	1752.4	41.862	43.2	63.	123.	175.2
00300p OXYGEN, DISSOLVED MG/L	09/15/74-04/20/87	87	9.1	8.149	12.2	0.2	11.772	3.431	2.3	5.3	10.9	11.5
00400p PH (STANDARD UNITS)	09/15/74-04/20/87	66	8.15	8.177	8.8	7.5	0.125	0.353	7.7	8.	8.413	8.7
00400p CONVERTED PH (STANDARD UNITS)	09/15/74-04/20/87	66	8.147	8.042	8.8	7.5	0.143	0.378	7.7	8.	8.413	8.7
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/15/74-04/20/87	66	0.007	0.009	0.032	0.002	0.	0.007	0.002	0.004	0.01	0.02
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/74-04/20/87	44	148.5	146.341	168.	130.	50.835	7.13	135.5	142.	150.	153.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/74-08/14/84	40 ##	2.	3.1	8.	2.	3.528	1.878	2.	2.	4.	6.9
00605p NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/15/74-04/20/87	46	0.245	0.239	0.31	0.11	0.002	0.045	0.177	0.215	0.27	0.29
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/74-04/20/87	46	0.017	0.036	0.182	0.002	0.002	0.043	0.004	0.008	0.048	0.094
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/74-04/20/87	46	0.23	0.197	0.35	0.009	0.009	0.097	0.037	0.12	0.26	0.32
00665p PHOSPHORUS, TOTAL (MG/L AS P)	09/15/74-04/20/87	46	0.008	0.009	0.019	0.002	0.	0.003	0.006	0.007	0.01	0.013
00916 CALCIUM, TOTAL (MG/L AS CA)	09/15/74-04/20/87	42	43.	42.519	46.	36.	6.162	2.482	38.51	41.75	44.	45.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/15/74-04/20/87	42	12.	11.705	12.	10.2	0.242	0.492	11.	11.	12.	12.
00929 SODIUM, TOTAL (MG/L AS NA)	09/15/74-04/20/87	42	4.	3.948	5.	3.	0.343	0.585	3.	3.7	4.	5.
00937 POTASSIUM, TOTAL MG/L AS K)	09/15/74-04/20/87	42	0.6	0.643	0.8	0.5	0.003	0.059	0.6	0.6	0.7	0.7
00940p CHLORIDE,TOTAL IN WATER MG/L	09/15/74-04/20/87	44	4.	4.068	5.	4.	0.065	0.255	4.	4.	4.	4.
00958p SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	09/15/74-04/30/85	43	2.6	2.287	4.	0.77	0.82	0.906	0.954	1.61	2.9	3.52
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/15/74-04/30/85	27 ##	0.001	0.001	0.003	0.001	0.	0.001	0.001	0.001	0.001	0.002

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0038 Parameter Code: 00077

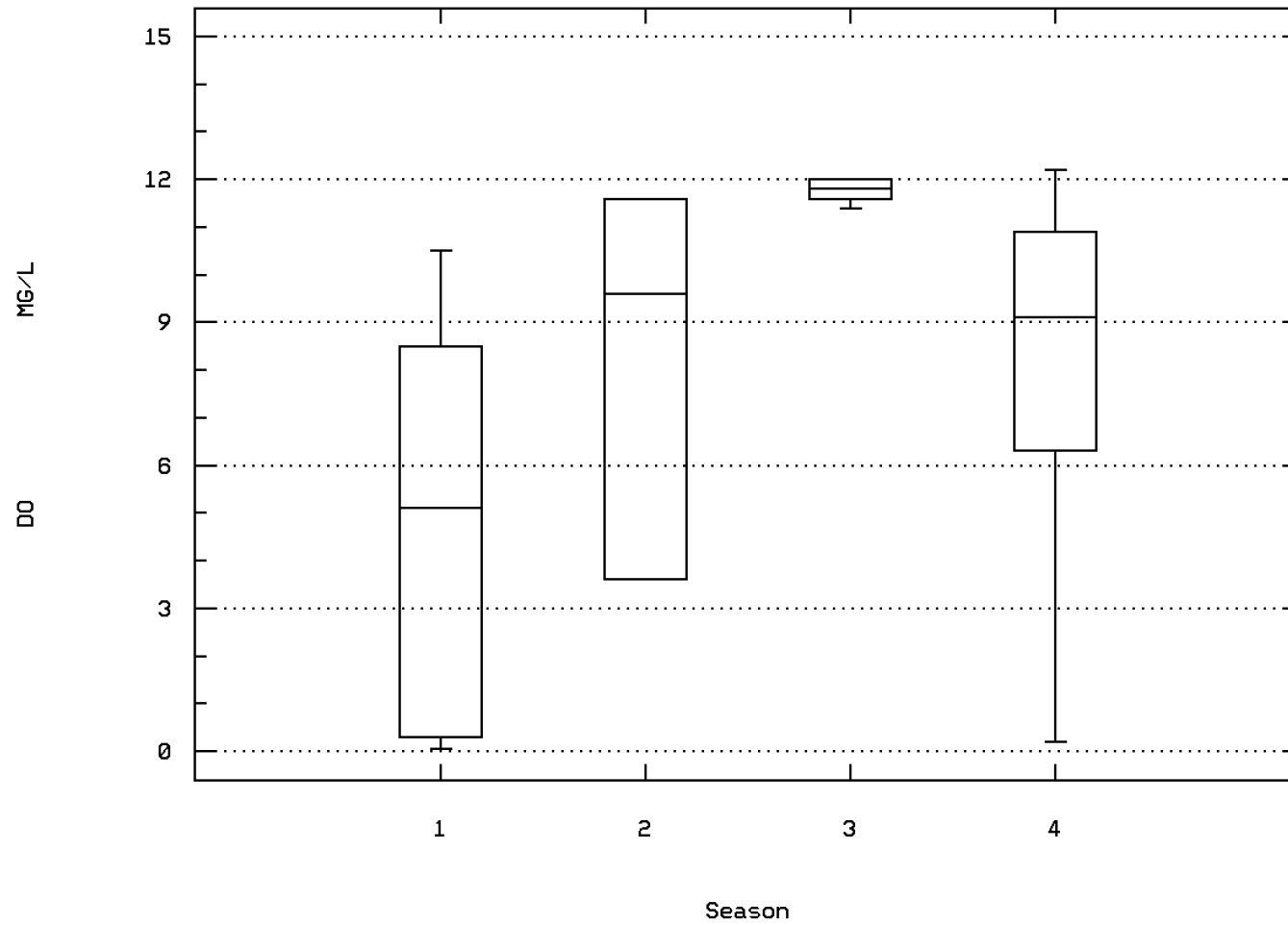
TRANSPARENCY, SECCHI DISC (INCHES)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00300

OXYGEN, DISSOLVED

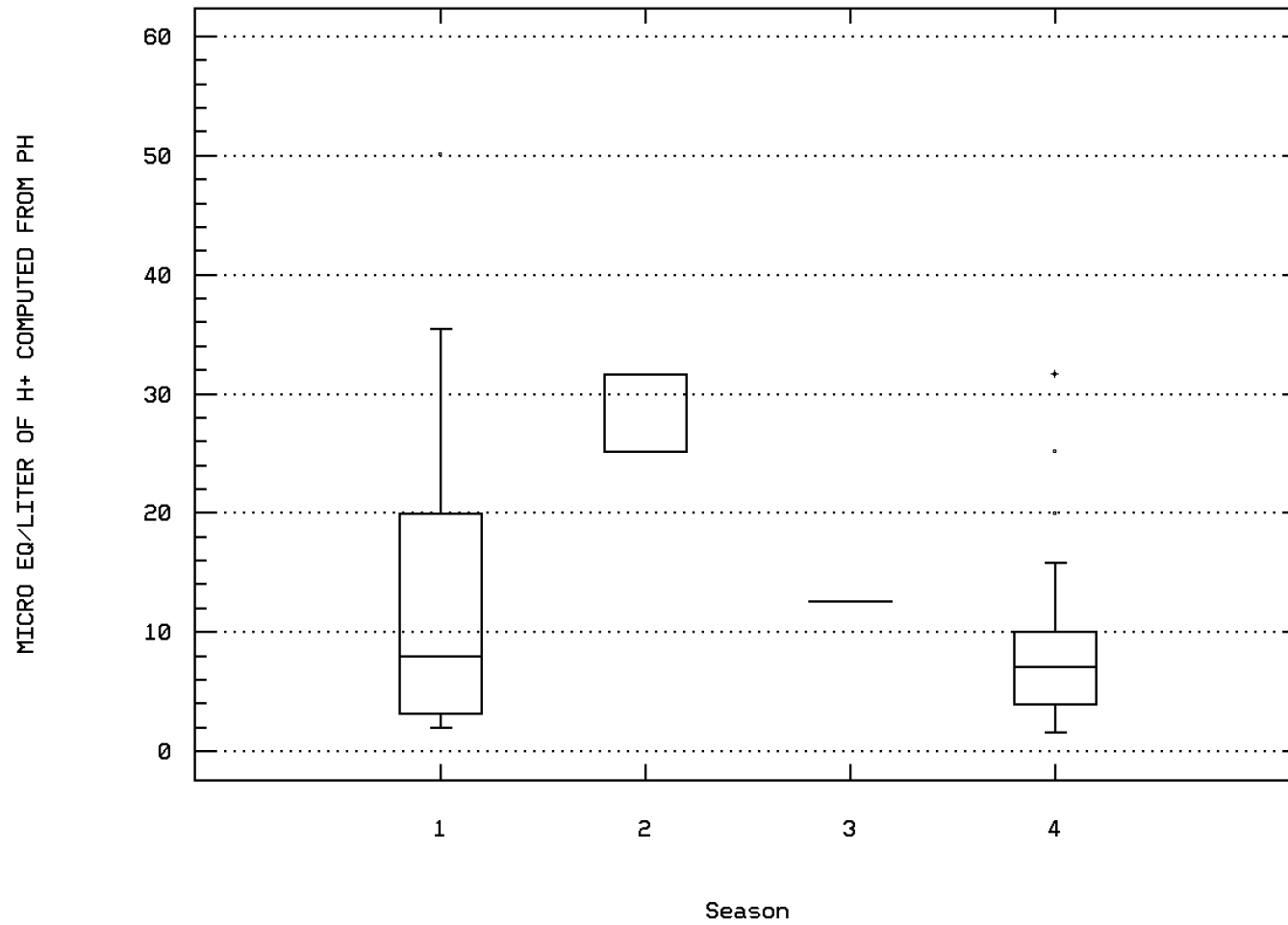


BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH

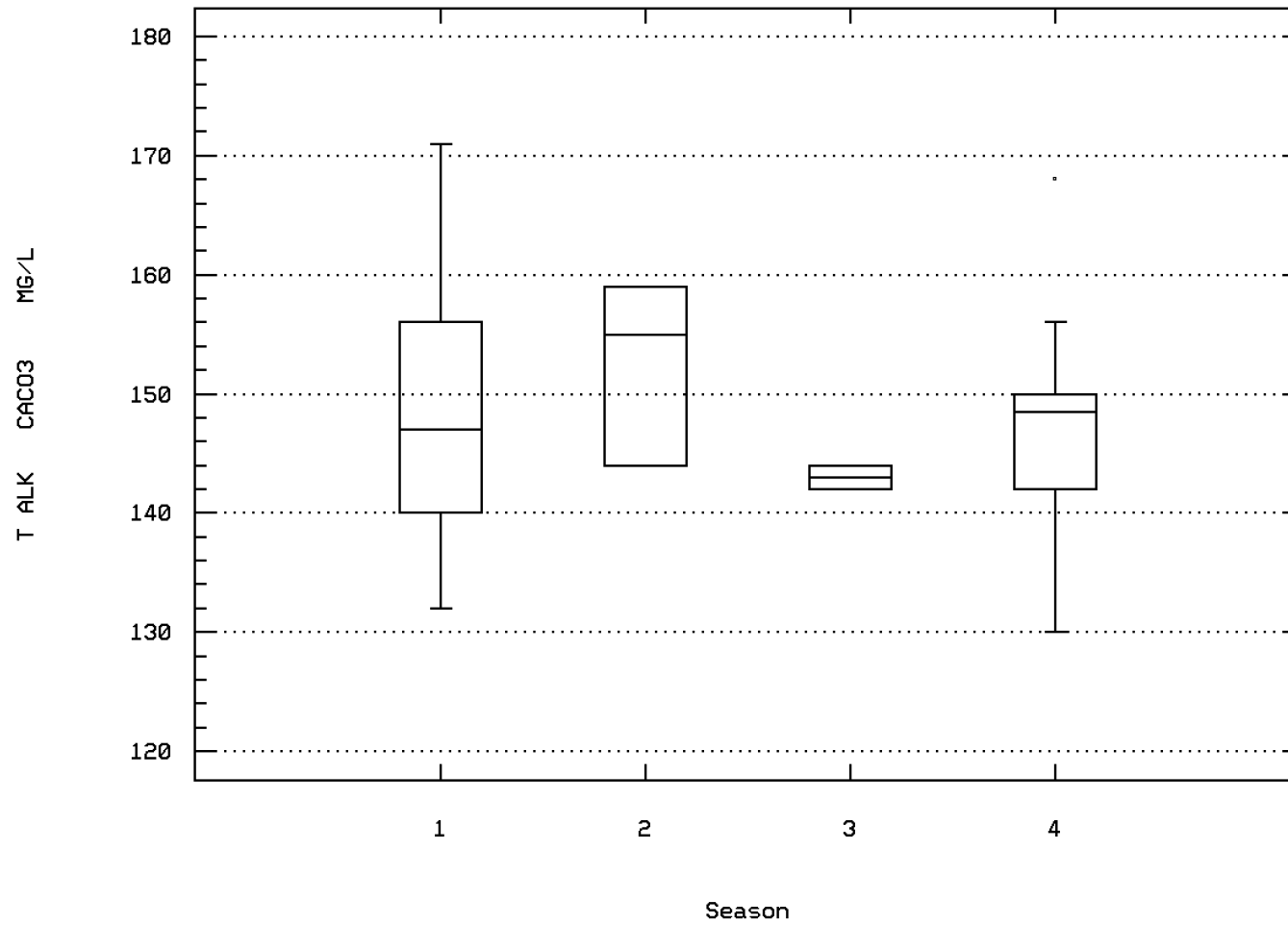
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BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00410

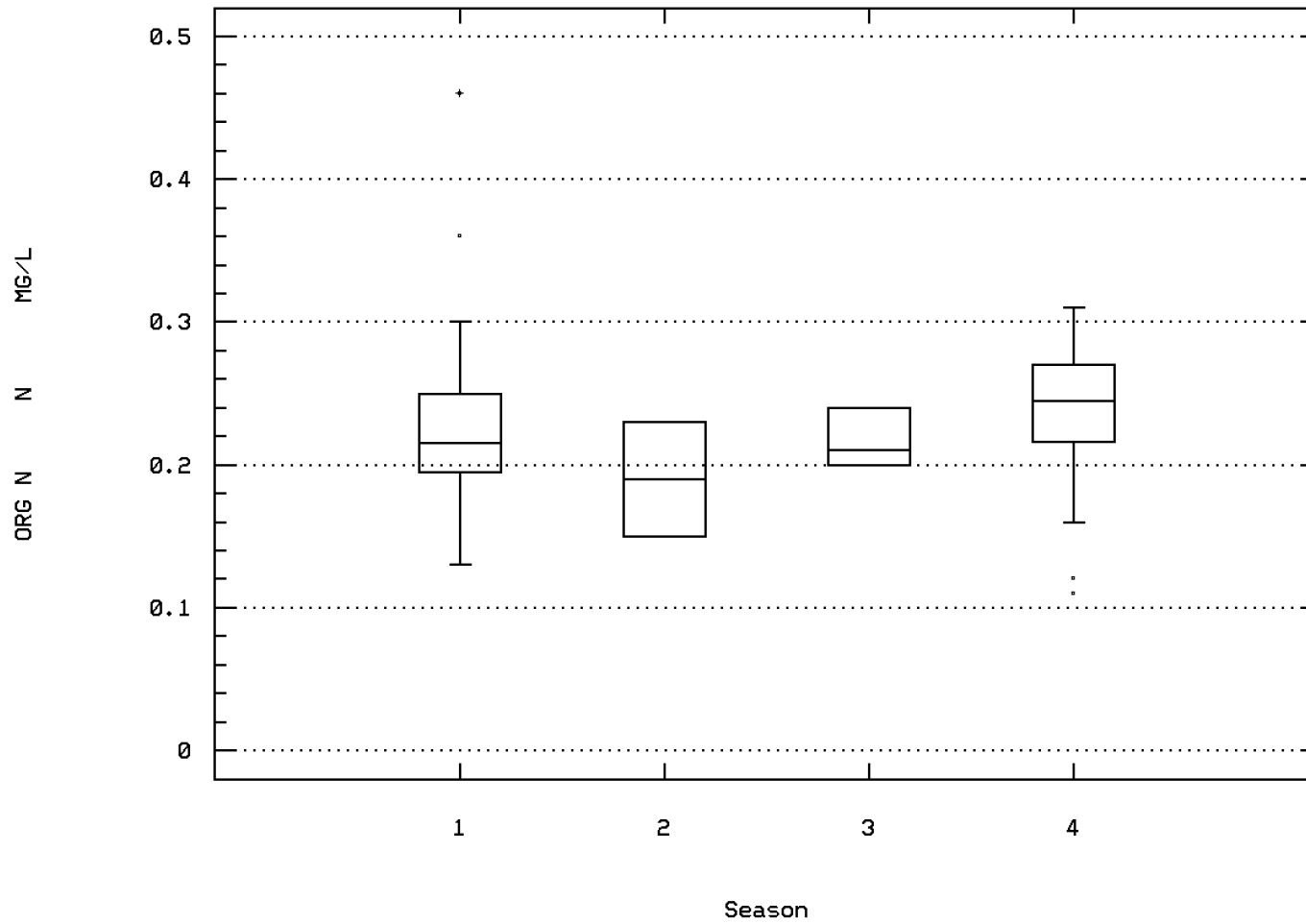
ALKALINITY, TOTAL (MG/L AS CaCO3)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00605

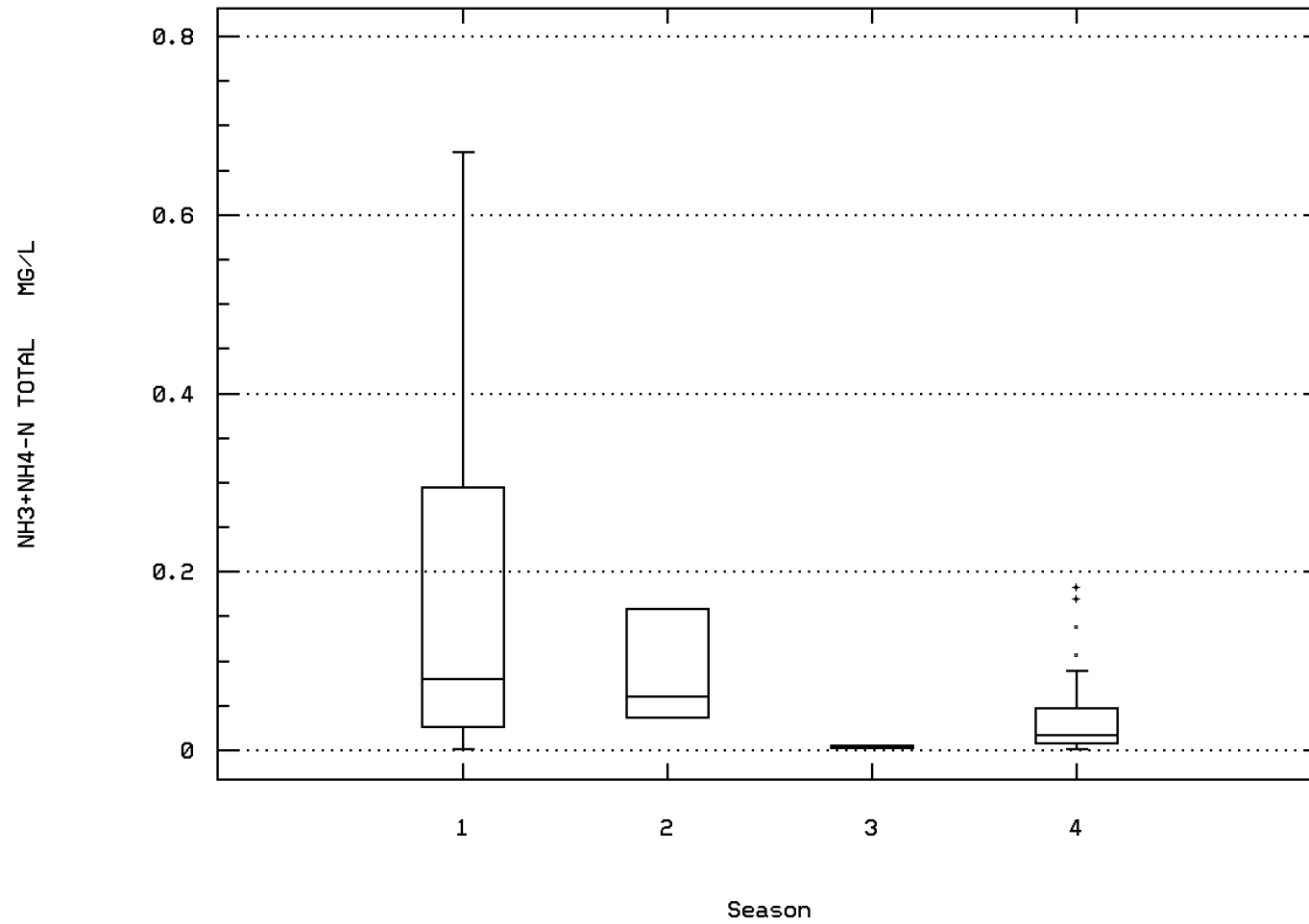
NITROGEN, ORGANIC, TOTAL (MG/L AS N)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00610

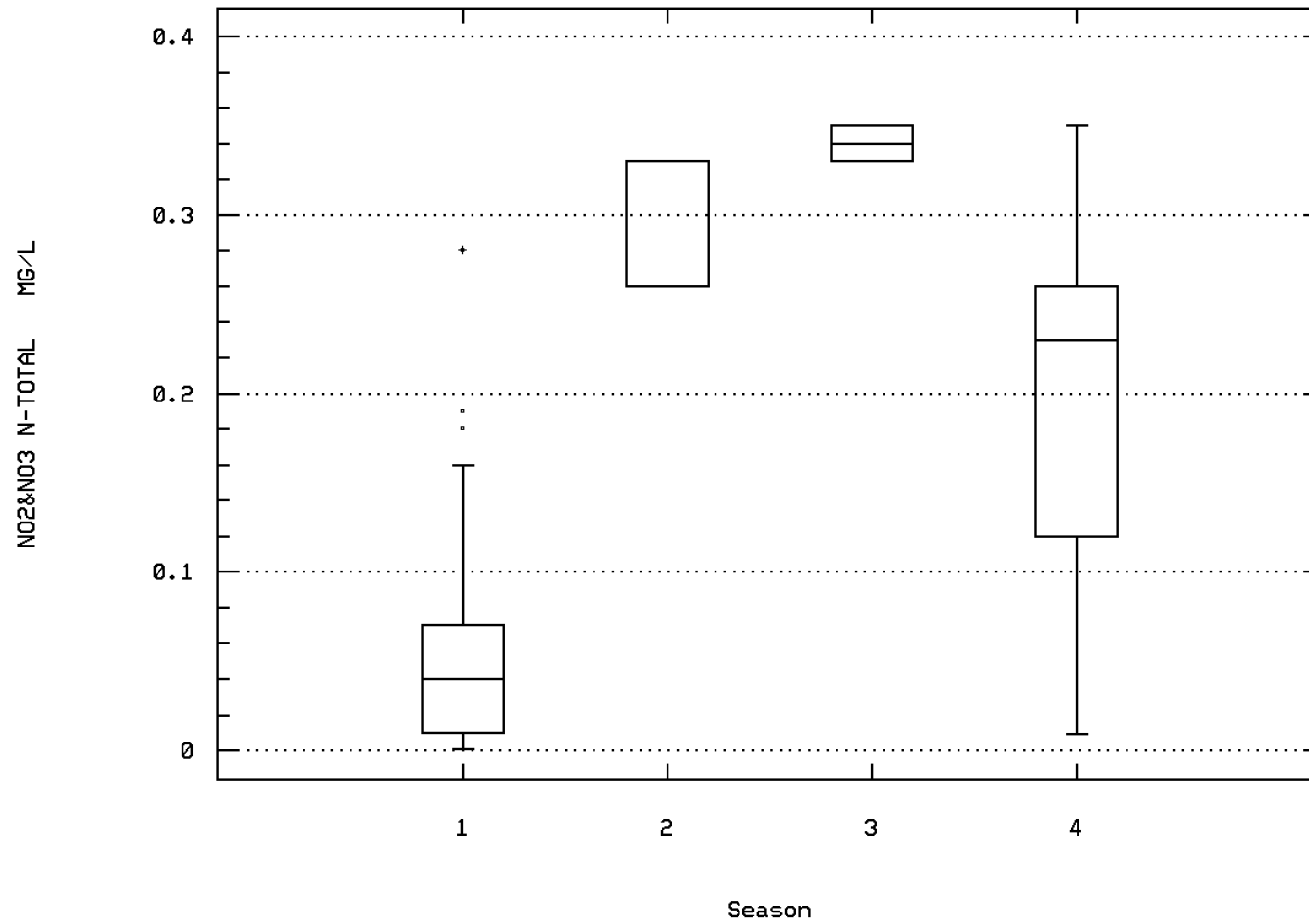
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00630

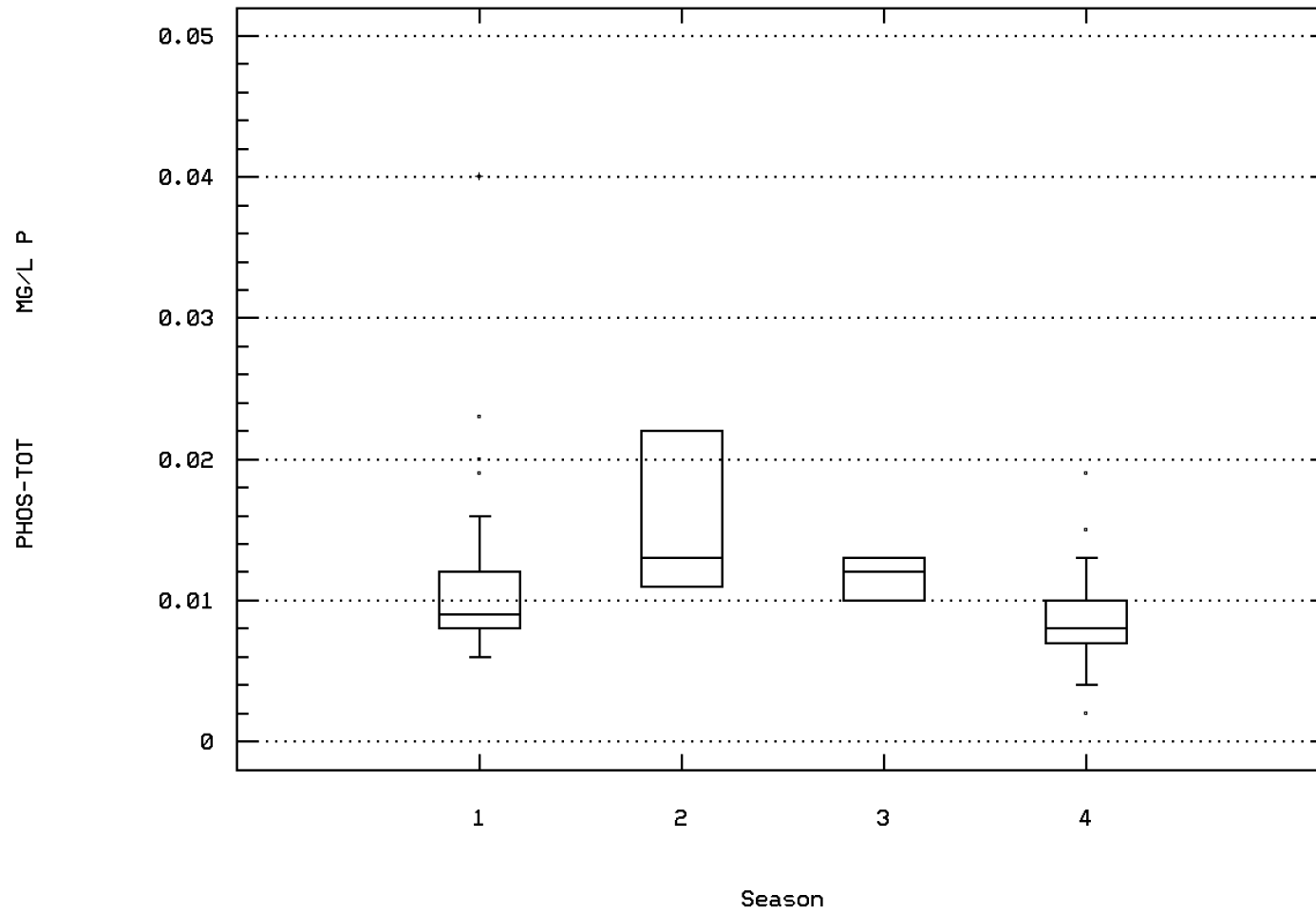
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00665

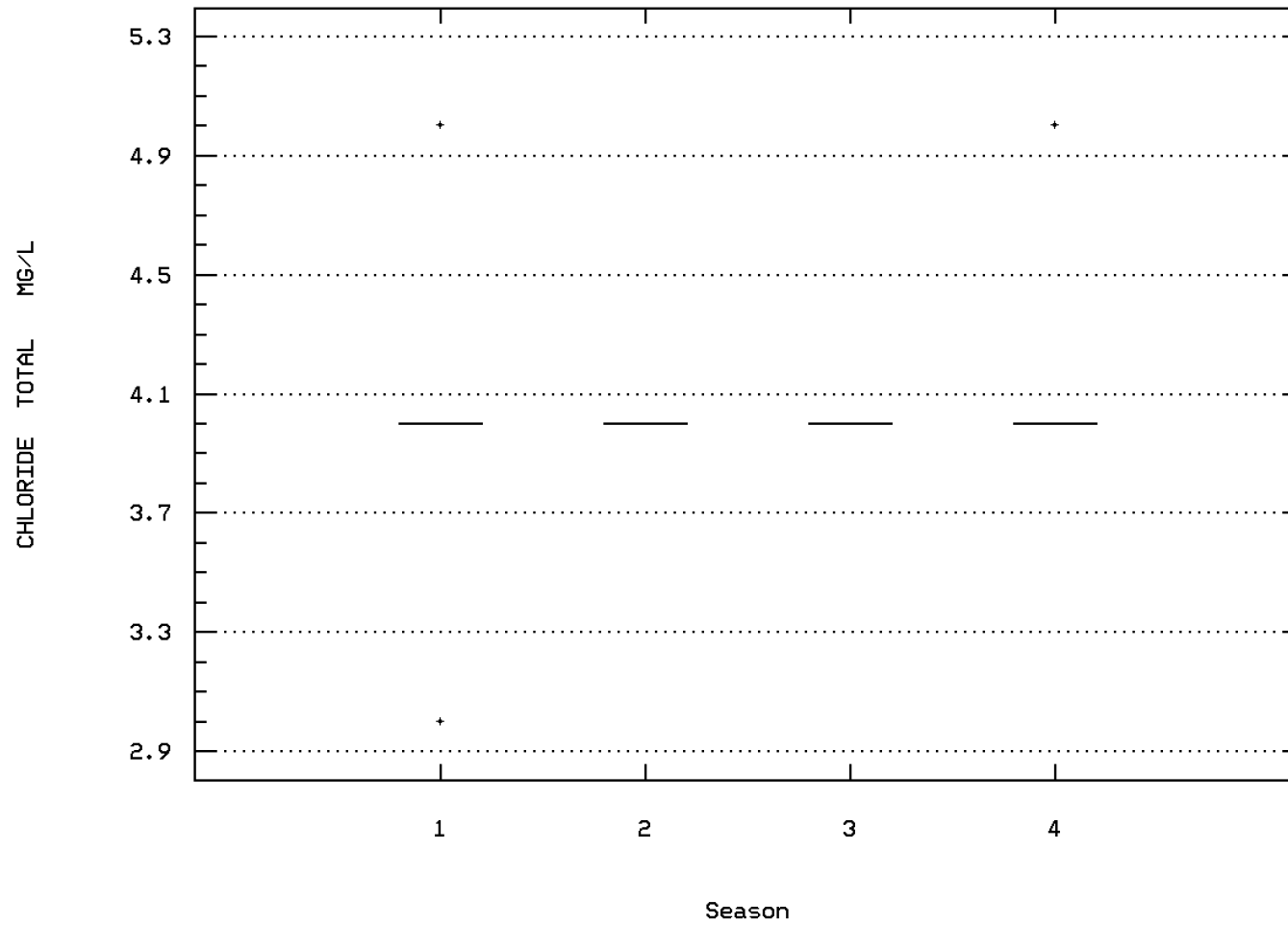
PHOSPHORUS, TOTAL (MG/L AS P)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00940

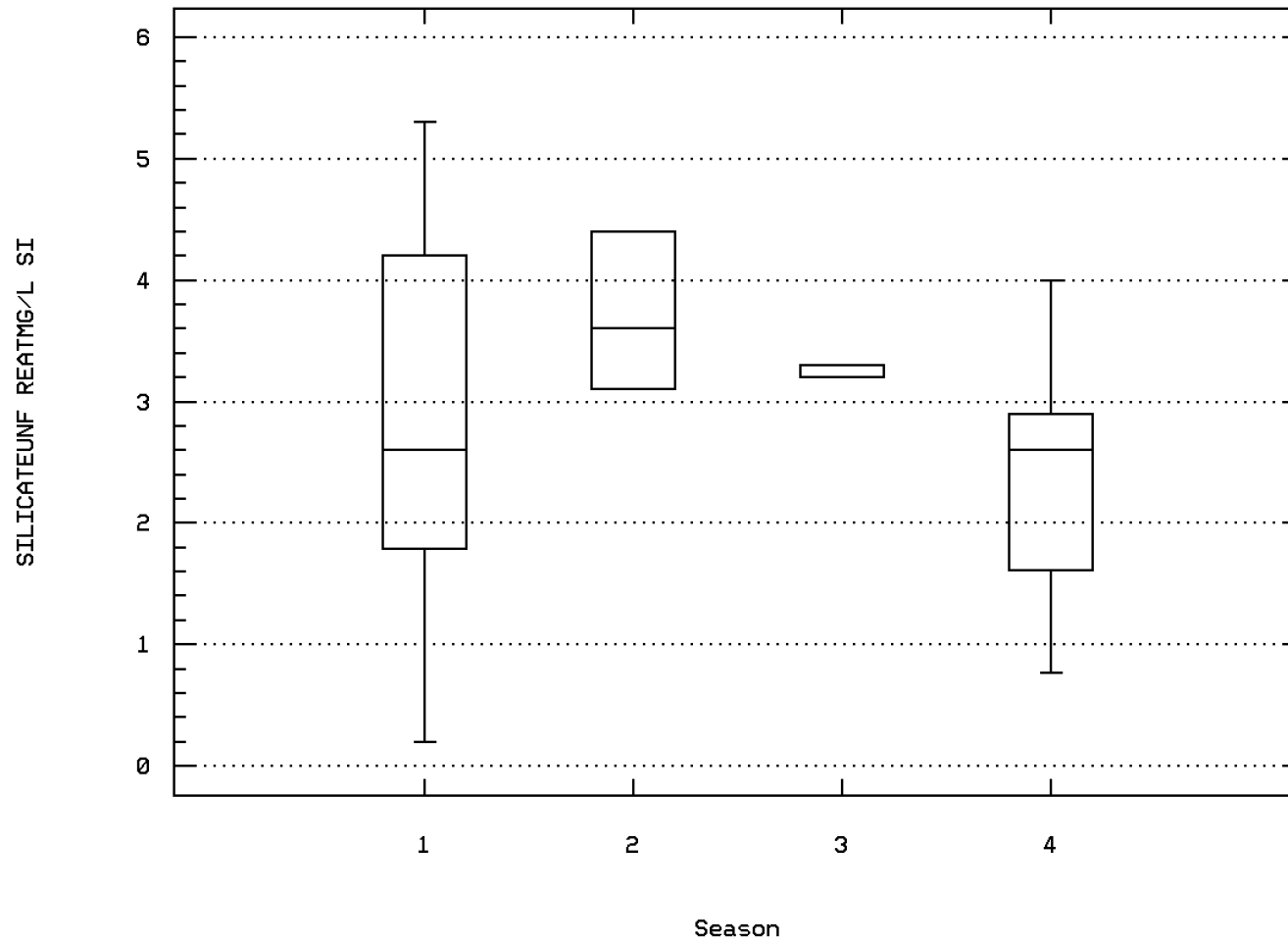
CHLORIDE, TOTAL IN WATER



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station: SLBE0038 Parameter Code: 00958

SILICATE, UNFILTERED REACTIVE (MG/L)



BIG PLATTE LK-NW BASIN; BENZONIA TWP.,

Station Inventory for Station: SLBE0039

NPS Station ID: SLBE0039
 Location: OPEN WATER
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: GREAT LAKES
 Minor Basin: LAKE MICHIGAN
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.700004/ -86.263338

Depth of Water: 22
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 4.65

Agency: 31UMGLSB
 FIPS State/County: 26998 MICHIGAN/
 STORET Station ID(s): NCM021
 Within Park Boundary: No

Date Created: 12/07/77

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 1.70
 Distance from RF3: 0.44

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/76-10/11/76	10	12.75	11.38	17.	6.2	15.284	3.909	6.2	7.325	14.35	16.84
00031	LIGHT, INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/23/76-08/15/76	5	27.1	26.34	57.6	6.1	412.713	20.315	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/23/76-08/15/76	4	4.5	4.75	6.	4.	0.81	0.9	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/06/76-10/11/76	8	268.	267.25	269.	265.	2.786	1.669	**	**	**	**
00400	PH (STANDARD UNITS)	06/06/76-10/11/76	8	8.555	8.561	8.7	8.5	0.004	0.066	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/06/76-10/11/76	8	8.555	8.557	8.7	8.5	0.004	0.066	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/06/76-10/11/76	8	0.003	0.003	0.003	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	04/23/76-10/11/76	5	110.	109.	112.	105.	8.5	2.915	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	07/15/76-10/11/76	3	0.04	0.037	0.04	0.03	0.	0.006	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/23/76-10/11/76	9	0.003	0.004	0.01	0.002	0.	0.003	0.002	0.002	0.007	0.01
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/23/76-10/11/76	10	0.2	0.18	0.2	0.1	0.002	0.042	0.1	0.175	0.2	0.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/76-10/11/76	10	0.008	0.008	0.009	0.006	0.	0.001	0.006	0.007	0.008	0.009
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/23/76-08/15/76	8	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/15/76-08/15/76	4	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00694	CARBON, SUSPENDE TOTAL (MG/L AS C)	07/15/76-10/11/76	3	0.31	0.303	0.36	0.24	0.004	0.06	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	04/23/76-10/11/76	10	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00955	SILICA, DISSOLVED (MG/L AS SiO2)	04/23/76-10/11/76	10	0.65	0.66	1.1	0.4	0.076	0.276	0.4	0.4	0.875	1.1
00957	SILICA, SUSPENDE (MG/L AS SiO2)	04/23/76-10/11/76	10	0.6	0.57	0.8	0.3	0.029	0.17	0.3	0.45	0.7	0.79
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/23/76-10/11/76	10	2.6	2.46	4.5	1.	1.612	1.269	1.	1.3	3.25	4.48
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	04/23/76-10/11/76	5	218.4	234.24	340.8	144.	5387.328	73.398	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0039

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00						4	0	0.00
		Other-Lo Lim.	6.5	8	0	0.00	4	0	0.00						4	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	10	0	0.00	4	0	0.00						6	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	10	0	0.00	4	0	0.00						6	0	0.00
		Drinking Water	250.	10	0	0.00	4	0	0.00						6	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0040

NPS Station ID: SLBE0040 Location: Platte Lake at 90 Foot Basin Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: LAKE MICHIGAN Minor Basin: PLATTE RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description:	LAT/LON: 44.701837/ -86.115003 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26019 MICHIGAN/BENZIE STORET Station ID(s): SLBE_PL_01 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76
		Date Created: 11/30/96 On/Off RF1: On/Off RF3:

This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle. The station lies in the northwest portion of Platte Lake at a location identified as the 90-foot basin which is marked with a buoy and appears on depth maps. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources -Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH. (717)376-2025; Wilfred Swiecki-President -Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH. (616)375-4611. This Station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter NPS WRD Fort Collins Colorado. PH.(970)225-3514.

Parameter Inventory for Station: SLBE0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	1324	50.	49.49	78.	32.	140.338	11.846	34.75	38.3	56.8	68.7
00077 TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	174	120.	125.937	246.	24.	1569.643	39.619	84.	108.	144.	180.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/03/91-01/04/94	450	10.1	8.803	14.9	0.	17.069	4.131	0.3	7.9	11.825	12.8
00300 OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	1306	9.9	8.992	17.5	0.	17.412	4.173	0.97	7.7	12.	13.5
00400 PH (STANDARD UNITS)	09/09/92-10/01/96	922	8.06	7.987	8.68	6.98	0.088	0.297	7.553	7.8	8.2	8.29
00400 CONVERTED PH (STANDARD UNITS)	09/09/92-10/01/96	922	8.06	7.865	8.68	6.98	0.103	0.321	7.553	7.8	8.2	8.29
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/92-10/01/96	922	0.009	0.014	0.105	0.002	0.	0.013	0.005	0.006	0.016	0.028
00405p CARBON DIOXIDE (MG/L AS CO2)	06/17/82-10/01/96	177	2.8	4.224	16.4	1.1	11.453	3.384	1.68	2.1	5.	9.5
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	09/09/92-10/01/96	905	146.	145.841	170.	64.	71.532	8.458	136.	140.	152.	156.
00425p ALKALINITY, BICARBONATE (MG/L AS CaCO3)	06/17/82-10/01/96	177	147.	145.463	169.	117.	58.636	7.657	135.8	142.	150.	154.
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	3885	0.008	0.009	0.062	0.002	0.	0.003	0.006	0.007	0.01	0.012
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	03/09/93-03/23/93	5	3.8	12.34	46.8	3.4	371.158	19.265	**	**	**	**
00916p CALCIUM, TOTAL (MG/L AS Ca)	06/17/82-10/01/96	177	43.4	43.187	49.2	36.6	7.358	2.713	39.1	41.65	44.75	46.82
00937 POTASSIUM, TOTAL MG/L AS K)	10/13/92-03/09/93	50	1.425	1.452	1.81	1.14	0.03	0.172	1.26	1.338	1.513	1.759
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	168	2.8	3.082	10.	0.8	2.534	1.592	1.49	1.9	3.8	5.32
70300p RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/17/82-10/01/96	177	178.	177.13	199.	150.	73.205	8.556	166.	172.	183.	187.2
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/07/96-10/01/96	36	1.5	1.486	2.5	0.9	0.18	0.424	1.	1.125	1.775	2.06

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

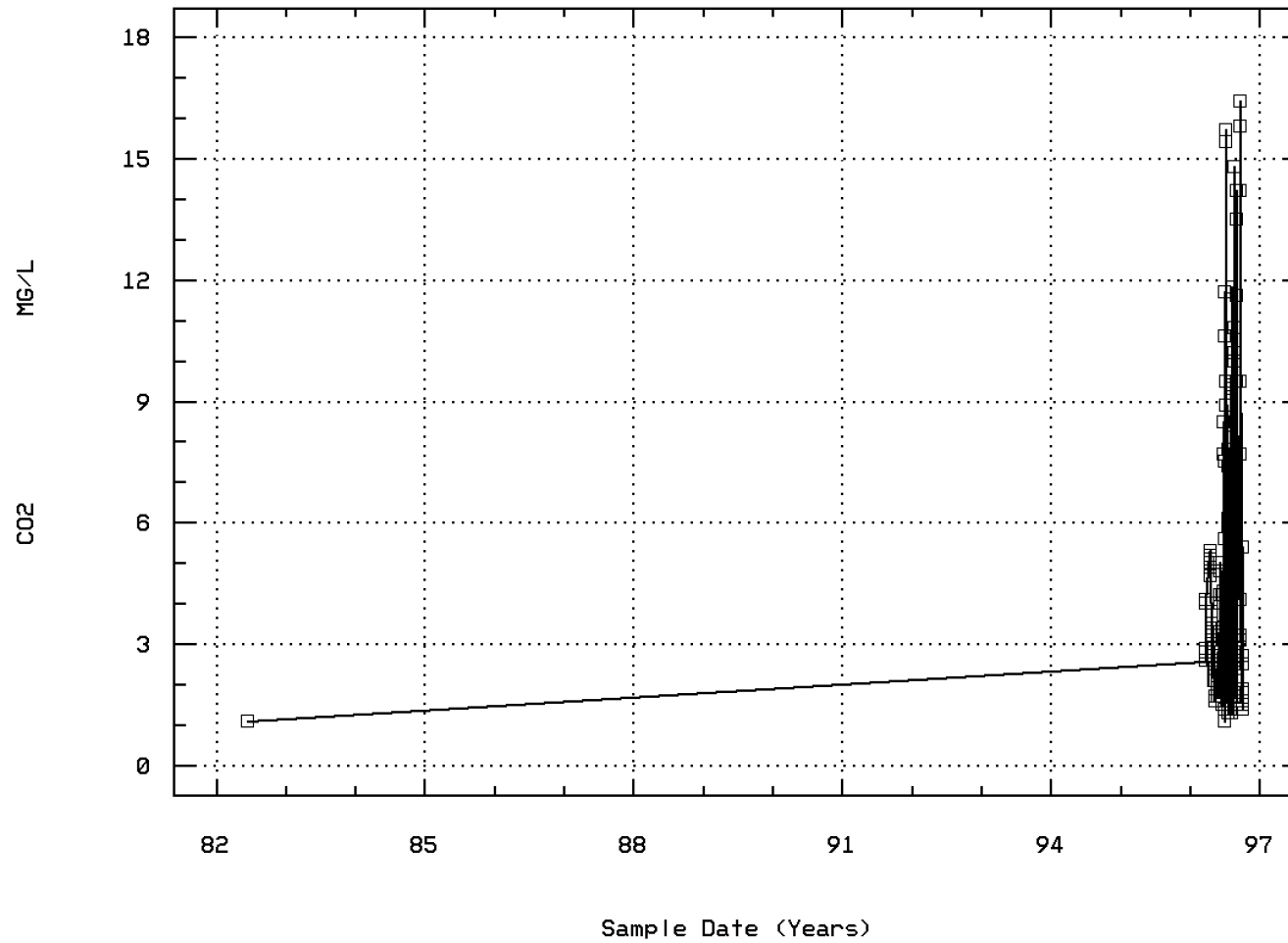
EPA Water Quality Criteria Analysis for Station: SLBE0040

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	450	80	0.18	205	55	0.27	99	2	0.02	35	2	0.06	111	21	0.19
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1306	221	0.17	472	141	0.30	251	0	0.00	127	3	0.02	456	77	0.17
00400 PH	Other-Hi Lim.	9.	922	0	0.00	340	0	0.00	192	0	0.00	78	0	0.00	312	0	0.00
	Other-Lo Lim.	6.5	922	0	0.00	340	0	0.00	192	0	0.00	78	0	0.00	312	0	0.00
	Other-Hi Lim.	50.	36	0	0.00	10	0	0.00							26	0	0.00
82078 TURBIDITY, FIELD																	

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0040 Parameter Code: 00405

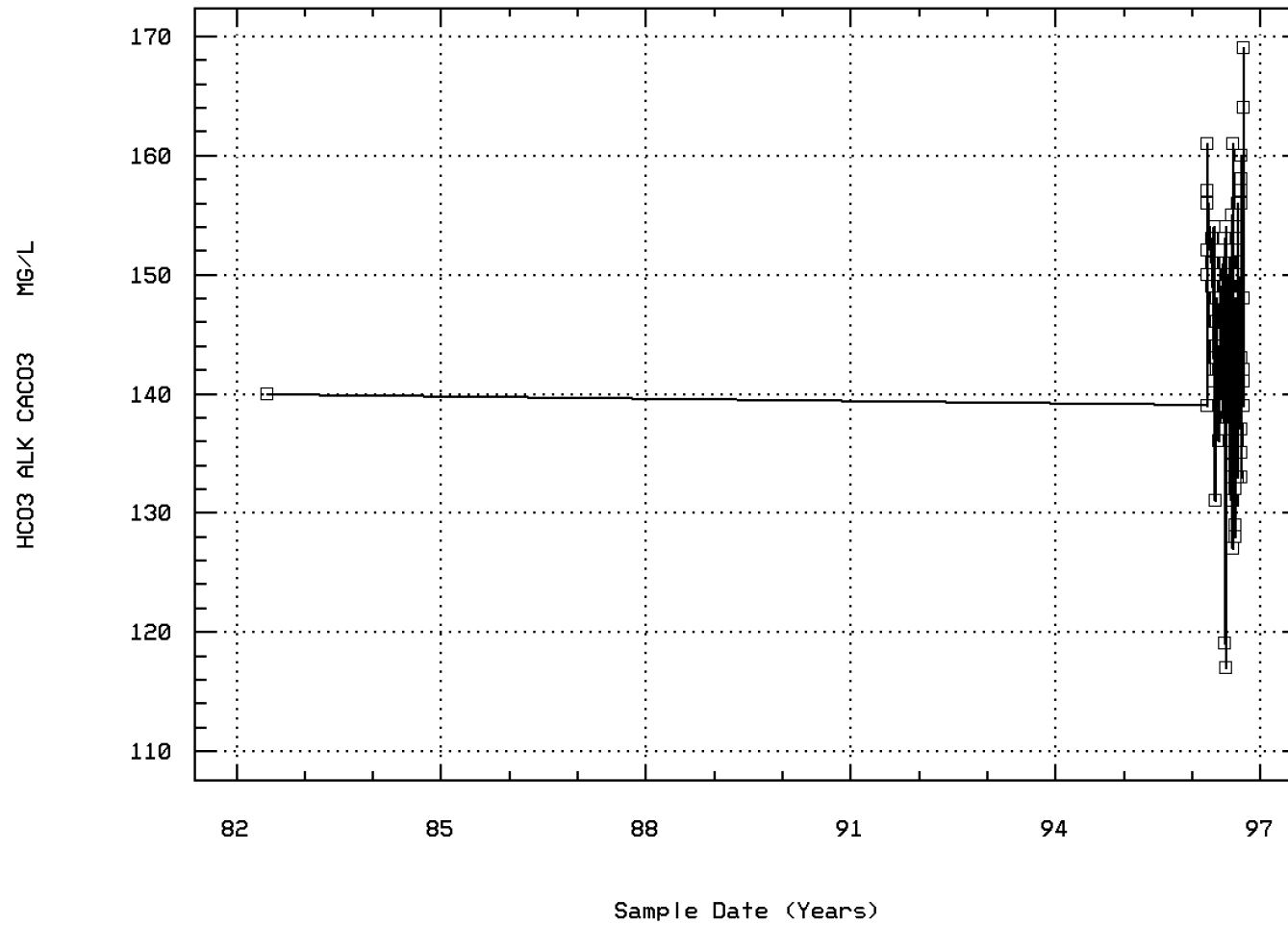
CARBON DIOXIDE (MG/L AS CO2)



Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 00425

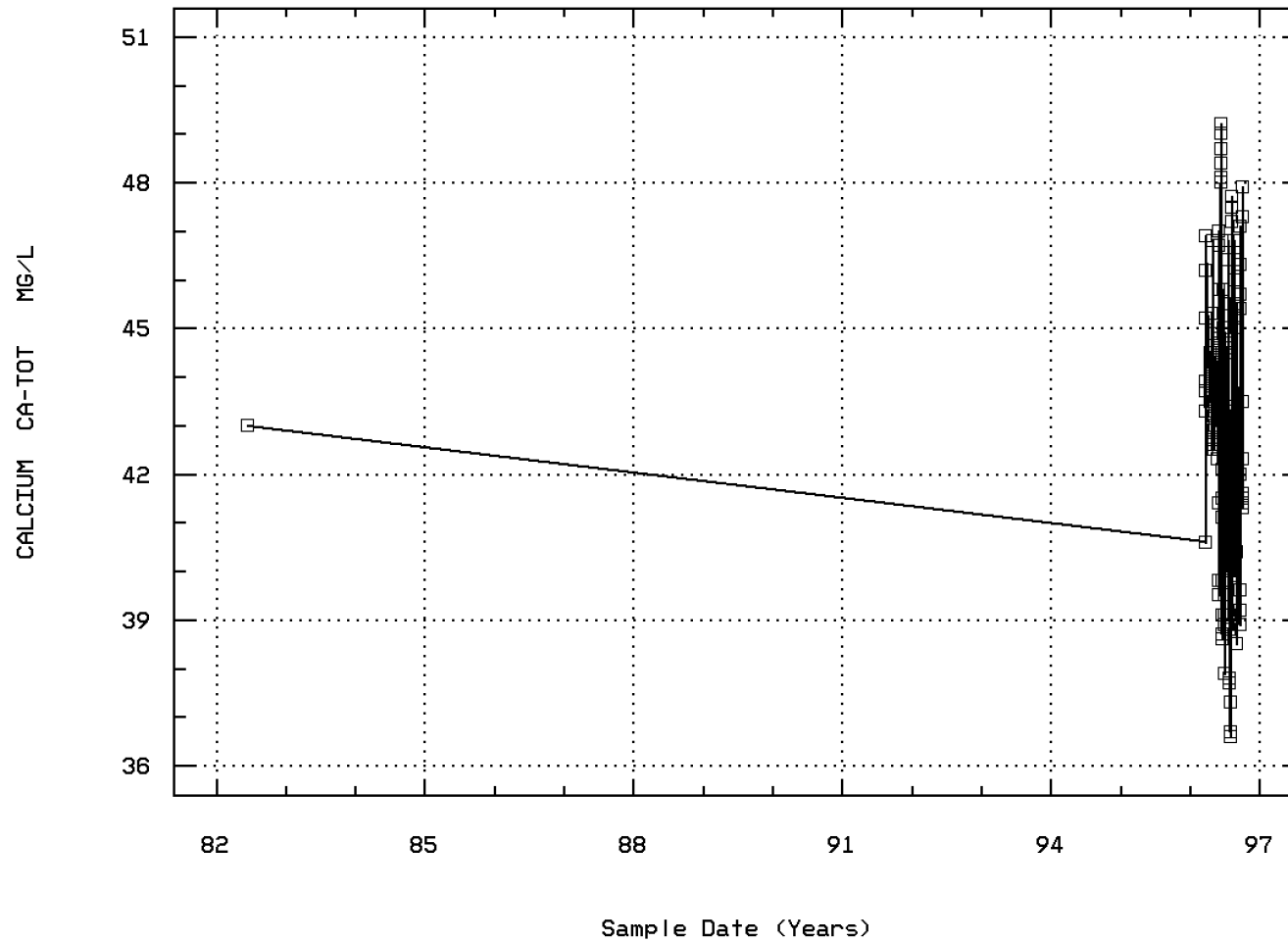
ALKALINITY, BICARBONATE (MG/L AS CaCO3)



Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 00916

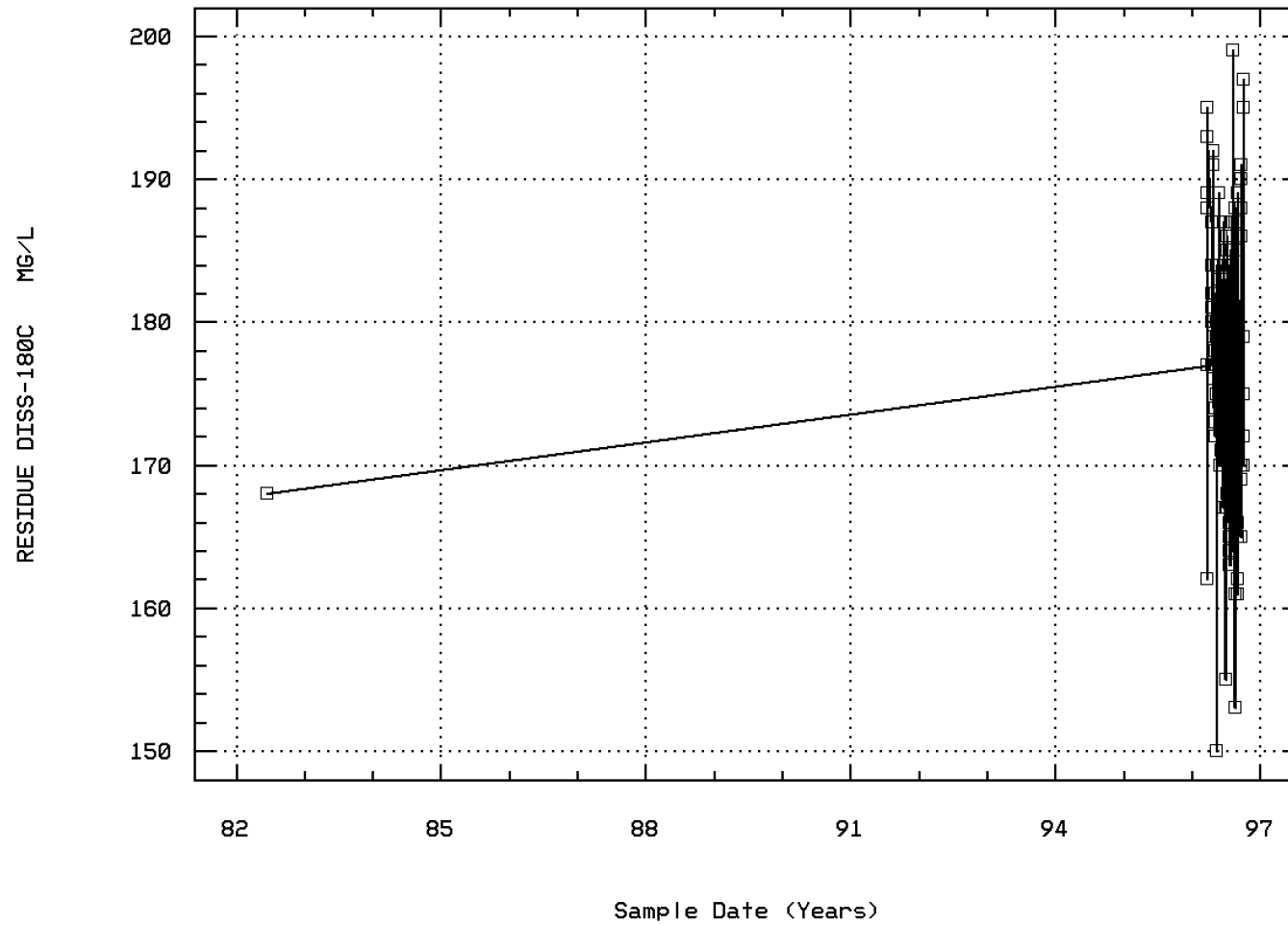
CALCIUM, TOTAL (MG/L AS CA)



Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 70300

RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)



Platte Lake at 90 Foot Basin

Annual Analysis for 1989 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	7	46.	46.1	46.7	45.8	0.083	0.289	**	**	**	**
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	1	108.	108.	108.	108.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	7	10.8	10.771	10.8	10.7	0.002	0.049	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	20	0.014	0.014	0.016	0.011	0.	0.001	0.012	0.013	0.015	0.016

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station SLBE0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	132	54.4	53.542	74.	33.	121.964	11.044	38.2	43.725	60.825	69.67
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	19	108.	119.368	216.	36.	2407.579	49.067	60.	96.	144.	216.
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	133	8.8	7.62	13.5	0.	16.254	4.032	0.34	5.4	10.25	12.02
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	375	0.009	0.009	0.02	0.004	0.	0.003	0.006	0.008	0.011	0.013
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	15	2.2	2.613	5.2	1.2	2.	1.414	1.2	1.5	4.4	5.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	161	50.2	49.689	78.	32.5	153.172	12.376	34.7	38.	55.85	70.92
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	23	120.	126.783	204.	84.	992.632	31.506	84.	108.	144.	168.
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	161	10.	8.748	17.5	0.2	18.118	4.257	0.8	7.05	11.8	13.18
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	468	0.009	0.009	0.018	0.003	0.	0.003	0.006	0.007	0.01	0.012
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	22	2.3	2.936	10.	0.8	3.924	1.981	1.12	1.675	3.8	5.26

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	222	49.35	48.405	72.	32.	106.964	10.342	35.1	39.2	56.	62.82
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	31	114.	117.323	192.	42.	1323.826	36.384	72.	102.	132.	180.8
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	196	10.2	9.373	15.8	0.	17.604	4.196	1.6	7.925	12.475	14.
00400	PH (STANDARD UNITS)	09/09/92-10/01/96	112	8.18	8.042	8.43	6.98	0.166	0.407	7.163	8.035	8.31	8.36
00400	CONVERTED PH (STANDARD UNITS)	09/09/92-10/01/96	112	8.18	7.773	8.43	6.98	0.239	0.489	7.163	8.035	8.31	8.36
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/92-10/01/96	112	0.007	0.017	0.105	0.004	0.001	0.025	0.004	0.005	0.009	0.069
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/09/92-10/01/96	104	140.	141.433	167.	64.	103.743	10.185	136.	138.	145.5	152.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	636	0.009	0.009	0.032	0.004	0.	0.003	0.006	0.007	0.01	0.012
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	28	2.35	2.604	4.7	1.3	0.99	0.995	1.49	1.725	3.35	4.23

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	186	47.3	48.049	74.5	32.7	129.16	11.365	35.27	37.	54.225	68.09
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	22	120.	130.636	204.	84.	946.052	30.758	99.6	108.	147.	186.6
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	185	10.4	9.602	15.7	0.2	17.4	4.171	1.26	8.15	12.9	14.
00400	PH (STANDARD UNITS)	09/09/92-10/01/96	186	7.87	7.87	8.68	7.21	0.123	0.351	7.38	7.598	8.182	8.28

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	09/09/92-10/01/96	186	7.87	7.734	8.68	7.21	0.141	0.376	7.38	7.597	8.182	8.28
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/92-10/01/96	186	0.014	0.018	0.062	0.002	0.	0.015	0.005	0.007	0.025	0.042
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/09/92-10/01/96	177	144.	143.684	160.	120.	41.99	6.48	136.	140.	148.	152.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	545	0.009	0.009	0.024	0.003	0.	0.003	0.005	0.007	0.01	0.012
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	26	2.9	3.469	8.7	1.2	3.631	1.906	1.57	1.9	4.75	6.34

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	200	51.	49.359	73.	33.	144.345	12.014	34.1	37.	57.	68.
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	26	126.	126.462	228.	60.	1457.058	38.171	68.4	108.	156.	169.8
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	208	10.45	9.183	14.7	0.	18.222	4.269	0.58	8.	12.2	13.8
00400	PH (STANDARD UNITS)	09/09/92-10/01/96	208	8.04	7.98	8.36	7.12	0.052	0.228	7.639	7.84	8.168	8.23
00400	CONVERTED PH (STANDARD UNITS)	09/09/92-10/01/96	208	8.04	7.913	8.36	7.12	0.057	0.238	7.639	7.84	8.168	8.23
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/92-10/01/96	208	0.009	0.012	0.076	0.004	0.	0.008	0.006	0.007	0.014	0.023
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/09/92-10/01/96	208	146.	145.894	166.	118.	65.834	8.114	136.	142.	152.	156.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	613	0.008	0.009	0.024	0.002	0.	0.003	0.006	0.007	0.01	0.012
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	26	3.85	4.085	6.9	1.2	2.923	1.71	1.64	2.95	5.525	6.63

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	192	50.	48.417	77.	33.	154.113	12.414	34.	37.	56.	69.35
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	24	120.	122.25	234.	24.	2253.326	47.469	48.	99.	144.	192.
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	192	9.8	9.222	16.3	0.	19.453	4.411	0.6	7.625	12.8	13.97
00400	PH (STANDARD UNITS)	09/09/92-10/01/96	192	8.18	8.104	8.4	7.49	0.052	0.228	7.673	8.01	8.27	8.327
00400	CONVERTED PH (STANDARD UNITS)	09/09/92-10/01/96	192	8.18	8.034	8.4	7.49	0.057	0.239	7.673	8.01	8.27	8.327
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/92-10/01/96	192	0.007	0.009	0.032	0.004	0.	0.006	0.005	0.005	0.01	0.021
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/09/92-10/01/96	192	150.	147.672	165.	110.	79.311	8.906	134.	144.	154.	156.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	571	0.008	0.009	0.021	0.004	0.	0.002	0.006	0.007	0.01	0.011
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	24	3.35	3.5	6.3	1.3	1.863	1.365	1.8	2.275	4.65	5.7

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

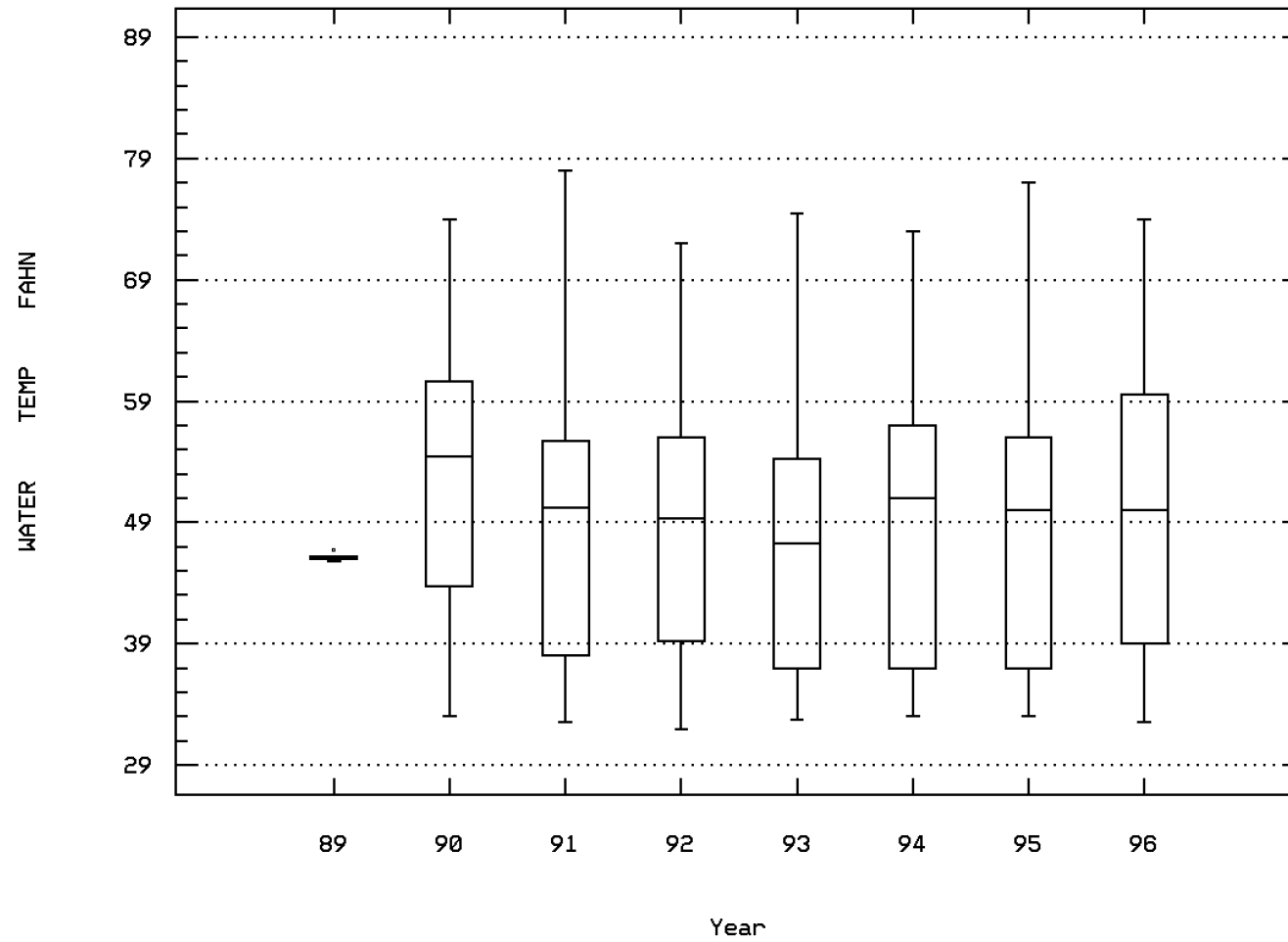
Annual Analysis for 1996 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	224	50.	50.373	74.	32.5	162.27	12.739	33.	38.	59.75	70.
00077p	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	28	132.	138.857	246.	72.	1836.571	42.855	84.	108.	160.5	216.6
00300p	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	224	9.45	8.715	14.1	0.	14.088	3.753	1.3	8.025	11.375	12.
00400	PH (STANDARD UNITS)	09/09/92-10/01/96	224	8.02	7.964	8.34	7.28	0.061	0.247	7.55	7.853	8.14	8.23
00400	CONVERTED PH (STANDARD UNITS)	09/09/92-10/01/96	224	8.02	7.88	8.34	7.28	0.068	0.261	7.55	7.852	8.14	8.23
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/09/92-10/01/96	224	0.01	0.013	0.052	0.005	0.	0.01	0.006	0.007	0.014	0.028
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	09/09/92-10/01/96	224	148.	147.973	170.	120.	59.667	7.724	138.	144.	152.	158.
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	657	0.008	0.009	0.062	0.004	0.	0.005	0.006	0.006	0.009	0.012
32209p	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	27	2.3	2.248	3.9	0.8	0.622	0.789	1.16	1.6	2.9	3.16

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0040 Parameter Code: 00011

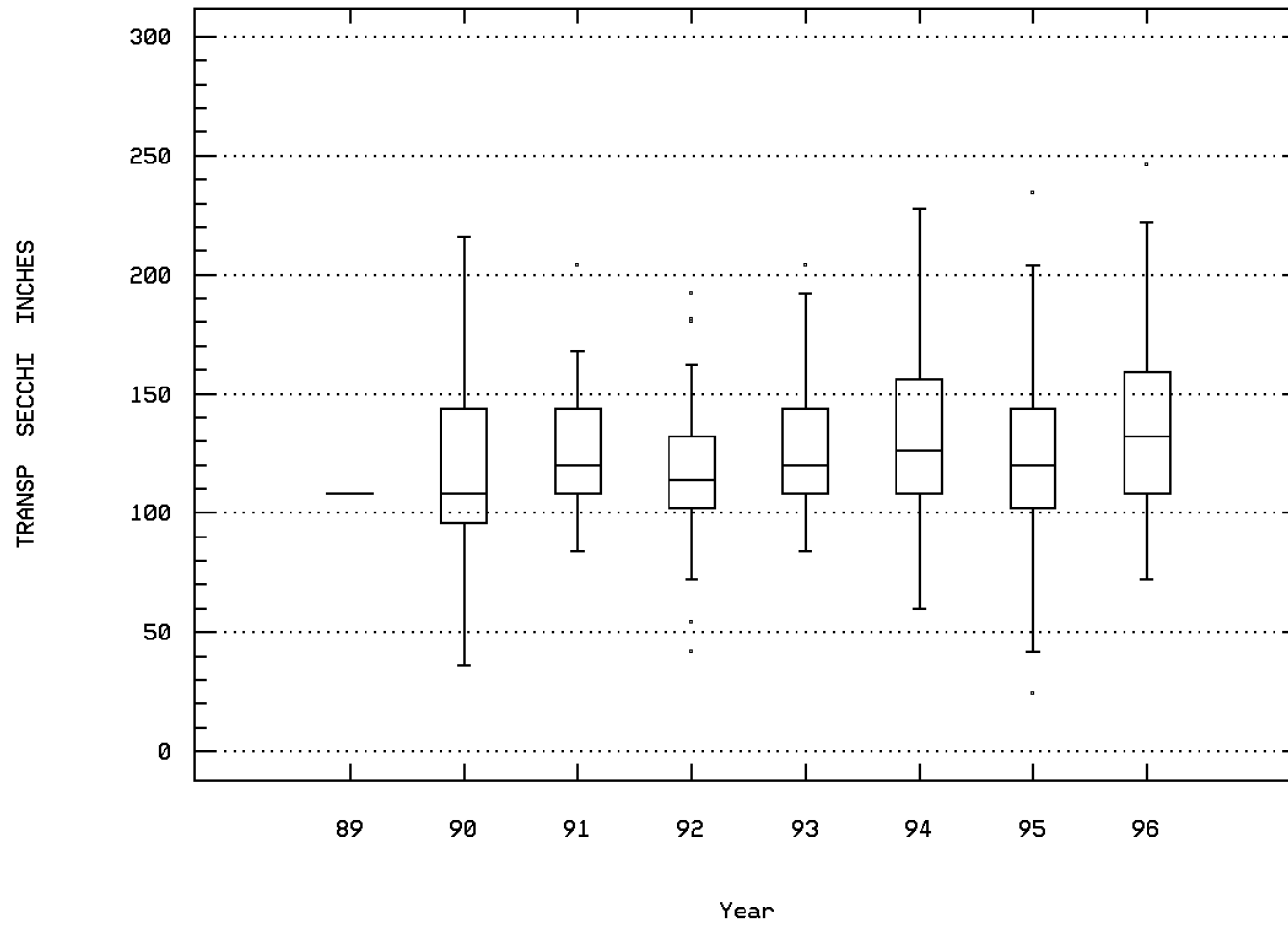
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 00077

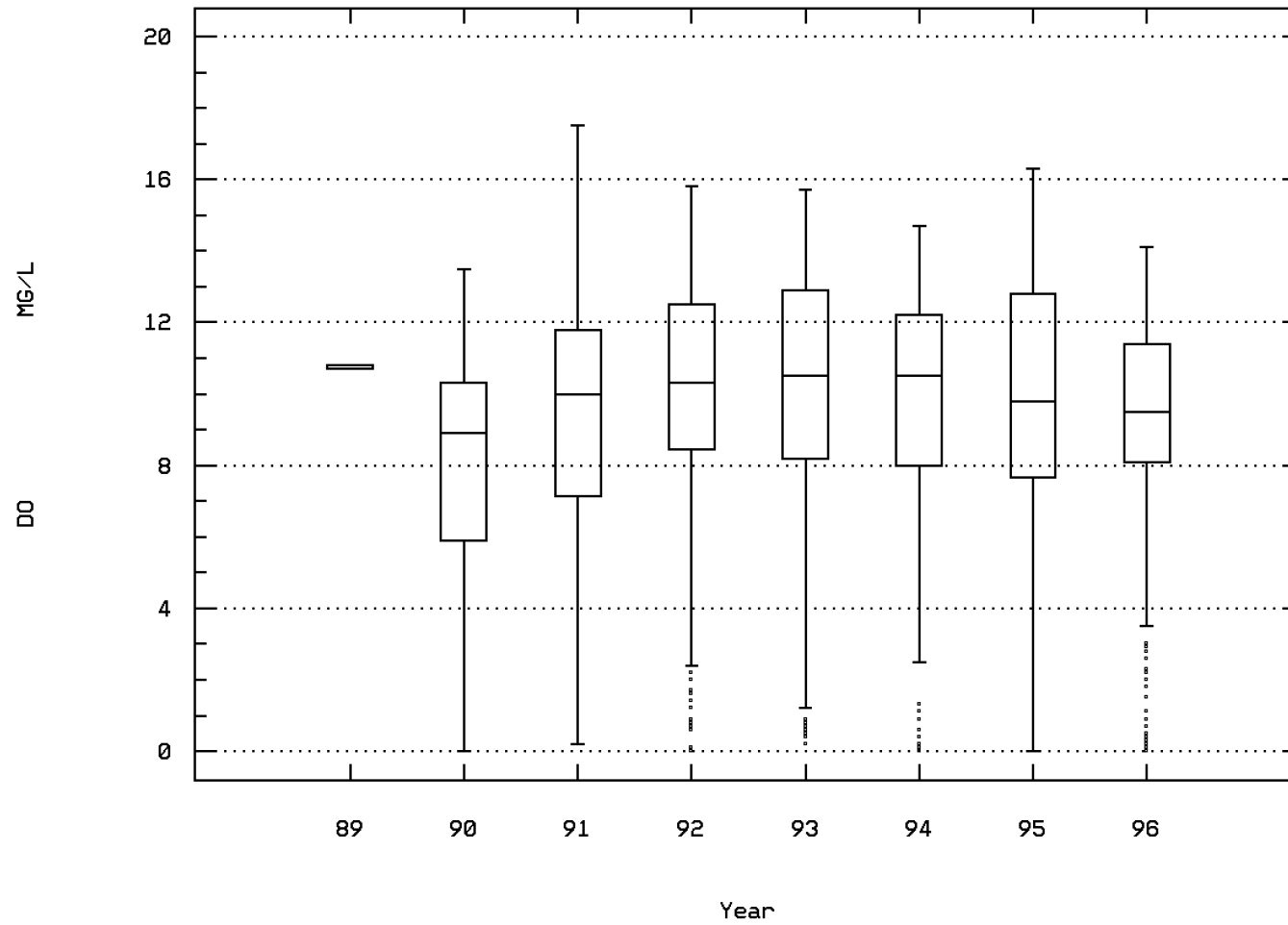
TRANSPARENCY, SECCHI DISC (INCHES)



Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 00300

OXYGEN, DISSOLVED

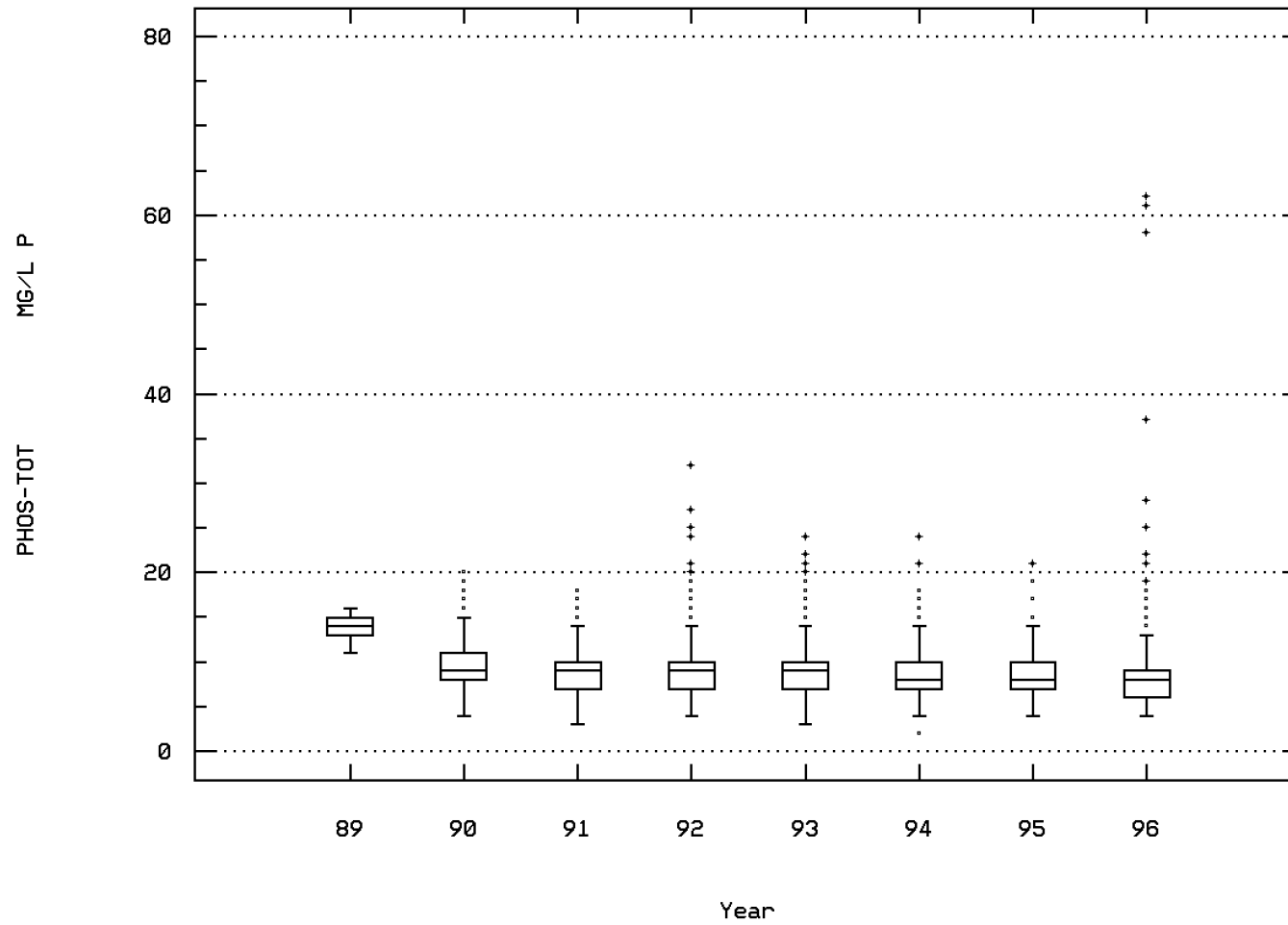


Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)

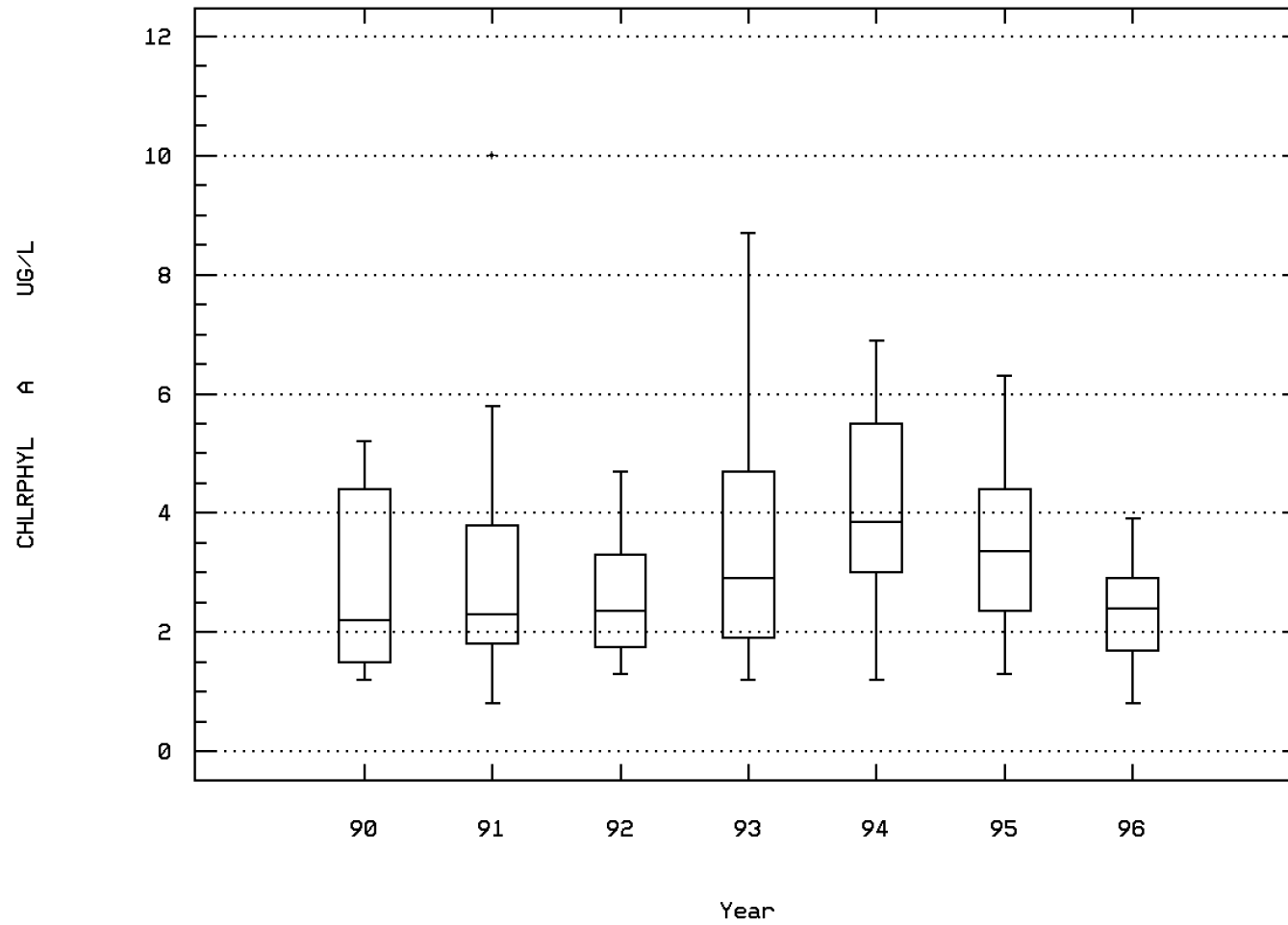
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Platte Lake at 90 Foot Basin

Station: SLBE0040 Parameter Code: 32209

CHLOROPHYLL A UG/L FLUOROMETRIC CORRECT



Platte Lake at 90 Foot Basin

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	487	53.	54.798	77.	37.	92.56	9.621	42.8	49.3	60.1	69.62
00077	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	64	117.	120.578	181.	84.	472.438	21.736	96.	108.	132.	156.
00300	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	472	8.9	7.379	15.8	0.	21.316	4.617	0.2	1.6	10.675	12.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	1415	0.009	0.009	0.02	0.002	0.	0.002	0.006	0.007	0.01	0.011
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	60	3.15	3.367	8.7	1.2	2.607	1.615	1.5	2.15	4.15	5.78

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	247	34.6	34.747	39.2	32.	2.495	1.58	33.	33.6	35.9	37.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	34	126.	138.706	246.	72.	1731.85	41.616	108.	108.	169.5	204.
00300	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	251	13.1	12.449	17.5	5.	4.653	2.157	9.1	11.2	14.	14.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	752	0.008	0.009	0.062	0.004	0.	0.004	0.006	0.007	0.009	0.011
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	33	2.6	2.961	6.7	0.8	2.34	1.53	1.24	1.75	3.4	5.56

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	127	37.4	38.098	45.3	32.9	6.762	2.6	36.	36.	39.	41.9
00077	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	16	165.	163.125	228.	108.	1796.25	42.382	108.	123.	210.	223.8
00300	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	127	11.4	10.82	15.3	0.8	6.08	2.466	7.78	9.8	12.4	13.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	373	0.008	0.009	0.037	0.004	0.	0.004	0.006	0.007	0.01	0.012
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	16	2.05	2.313	3.8	1.2	0.662	0.814	1.34	1.8	2.9	3.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/08/89-10/01/96	463	52.7	54.897	78.	39.6	90.459	9.511	43.08	48.	61.	70.5
00077	TRANSPARENCY, SECCHI DISC (INCHES)	11/08/89-10/01/96	60	114.	114.5	216.	24.	2039.542	45.161	54.6	84.	144.	189.6
00300	OXYGEN, DISSOLVED MG/L	11/08/89-10/01/96	456	9.15	8.25	13.5	0.1	12.858	3.586	2.	6.2	11.1	12.
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/08/89-10/01/96	1345	0.009	0.009	0.024	0.003	0.	0.003	0.006	0.007	0.01	0.013
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/18/90-09/17/96	59	2.8	3.069	10.	0.8	2.926	1.71	1.5	1.7	3.9	5.3

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0041

NPS Station ID: SLBE0041
Location: Platte Lake at 90 Foot Basin
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 04060104
Major Basin: LAKE MICHIGAN
Minor Basin: PLATTE
RF1 Index: 04060104
RF3 Index: 04060104000500.00
Description:
This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle. The station lies in the northwest portion of Platte Lake at a location identified as the 90-foot basin which is marked with a buoy and appears on depth maps. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources -Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH. (717)376-2025; Wilfred Swiecki-President -Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH. (616)375-4611. This Station is one of six river and five lake stations comprising the dataset. The secchi disk data stored at this station is reported by the Platte Lake Improvement Assoc. on a weekly basis. The date in STORET is the date for the week of the sampling not the precise date.

LAT/LON: 44.701837/ -86.115003

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 5.47

Agency: 11NPSWRD
FIPS State/County: 26019 MICHIGAN/BENZIE
STORET Station ID(s): SLBE_PL_01_PLIA
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 2.70
Distance from RF3: 0.76

Date Created: 11/30/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: SLBE0041

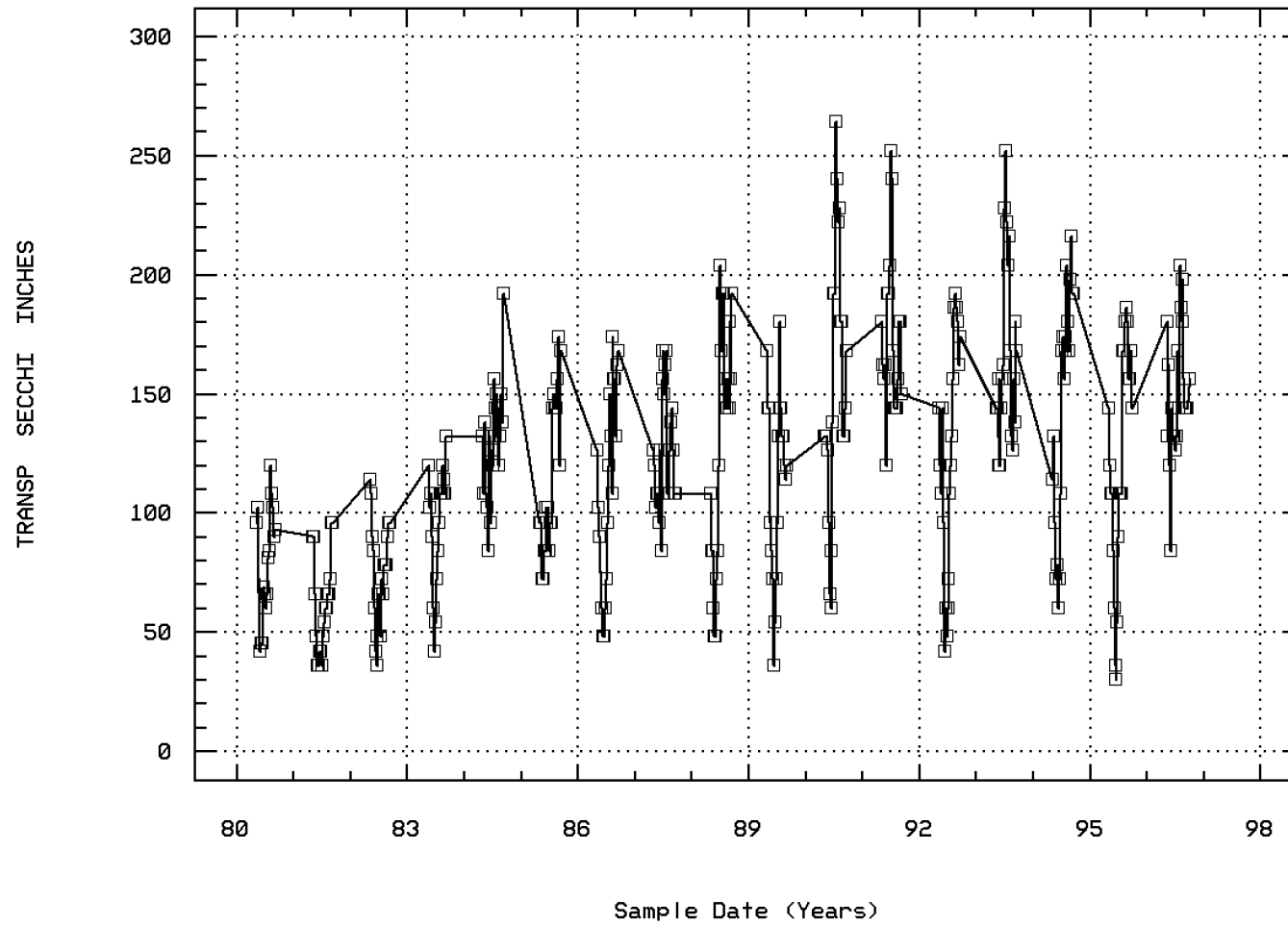
Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	336	120.	123.134	264.	30.	2284.397	47.795	60.	84.	156.	181.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station: SLBE0041 Parameter Code: 00077

TRANSPARENCY, SECCHI DISC (INCHES)



Platte Lake at 90 Foot Basin

Annual Analysis for 1980 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	17	81.	77.118	120.	42.	625.235	25.005	42.	52.5	99.	110.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	19	60.	61.579	96.	36.	407.368	20.183	36.	42.	72.	96.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	19	78.	74.526	114.	36.	477.263	21.846	42.	60.	90.	108.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	18	108.	97.	132.	42.	636.353	25.226	52.8	81.	115.5	121.2

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	20	132.	130.2	192.	84.	583.958	24.165	96.6	111.	144.	155.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	20	99.	114.	174.	72.	1076.211	32.806	73.2	87.	144.	166.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1986 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	19	120.	113.684	174.	48.	1769.895	42.07	48.	72.	156.	168.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	21	126.	125.714	168.	84.	599.314	24.481	97.2	108.	147.	166.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	21	144.	130.286	204.	48.	2610.514	51.093	50.4	84.	174.	192.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	19	120.	114.947	180.	36.	1481.053	38.484	54.	84.	144.	168.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	21	138.	154.286	264.	60.	3121.714	55.872	69.6	129.	192.	237.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	19	168.	174.	252.	120.	1072.	32.741	144.	150.	192.	240.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	20	126.	124.5	192.	42.	2421.	49.204	49.2	78.	171.	186.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	20	156.	166.8	252.	120.	1476.379	38.424	120.6	139.5	198.	227.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	20	168.	146.1	216.	60.	2505.884	50.059	72.	99.	189.	203.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	22	114.	121.091	186.	30.	2295.896	47.916	41.4	88.5	168.	180.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

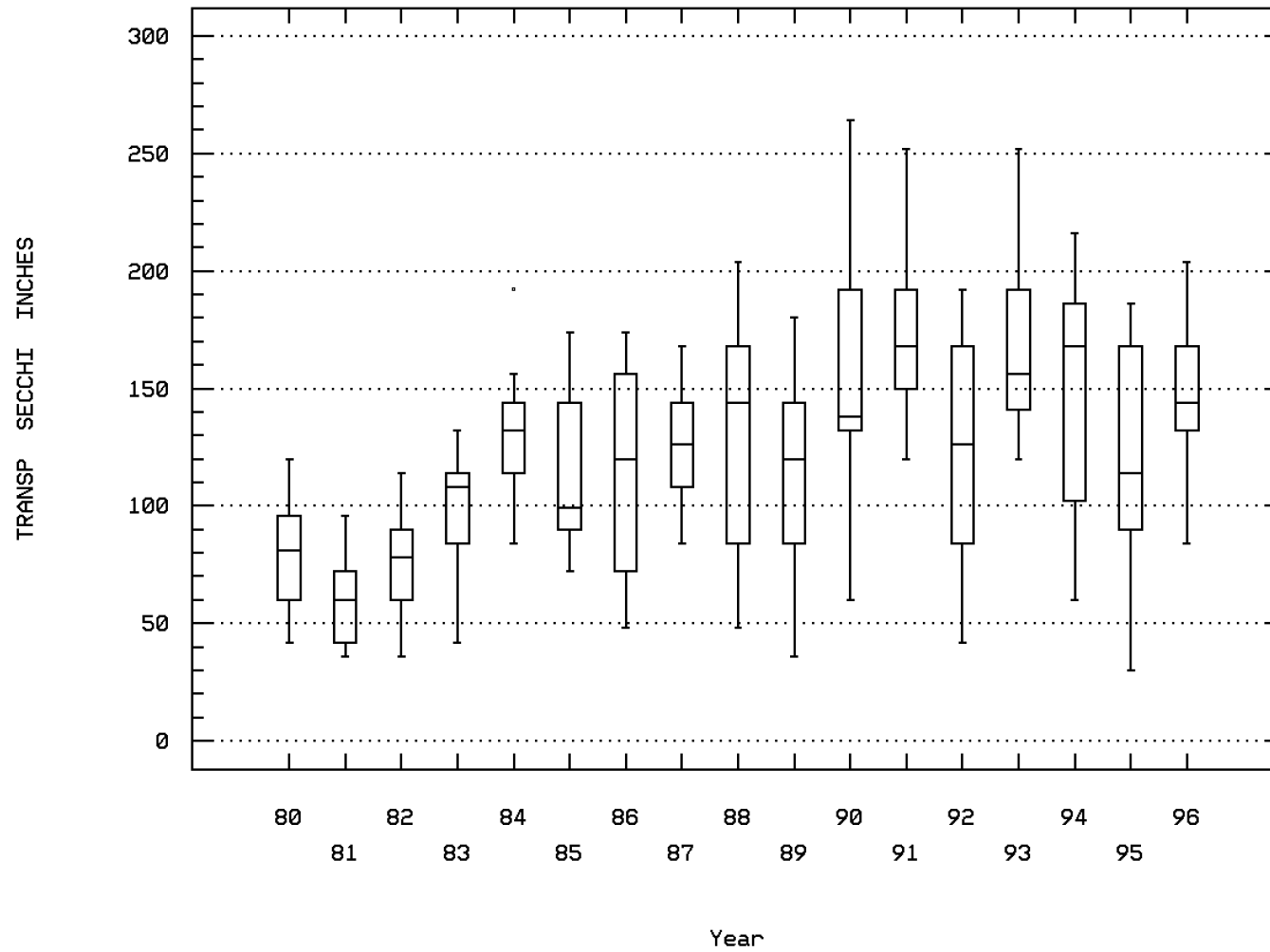
Annual Analysis for 1996 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	21	144.	150.857	204.	84.	807.429	28.415	121.2	132.	174.	195.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0041 Parameter Code: 00077

TRANSPARENCY, SECCHI DISC (INCHES)



Platte Lake at 90 Foot Basin

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	128	144.	144.352	228.	60.	1379.285	37.139	92.7	120.	172.5	192.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

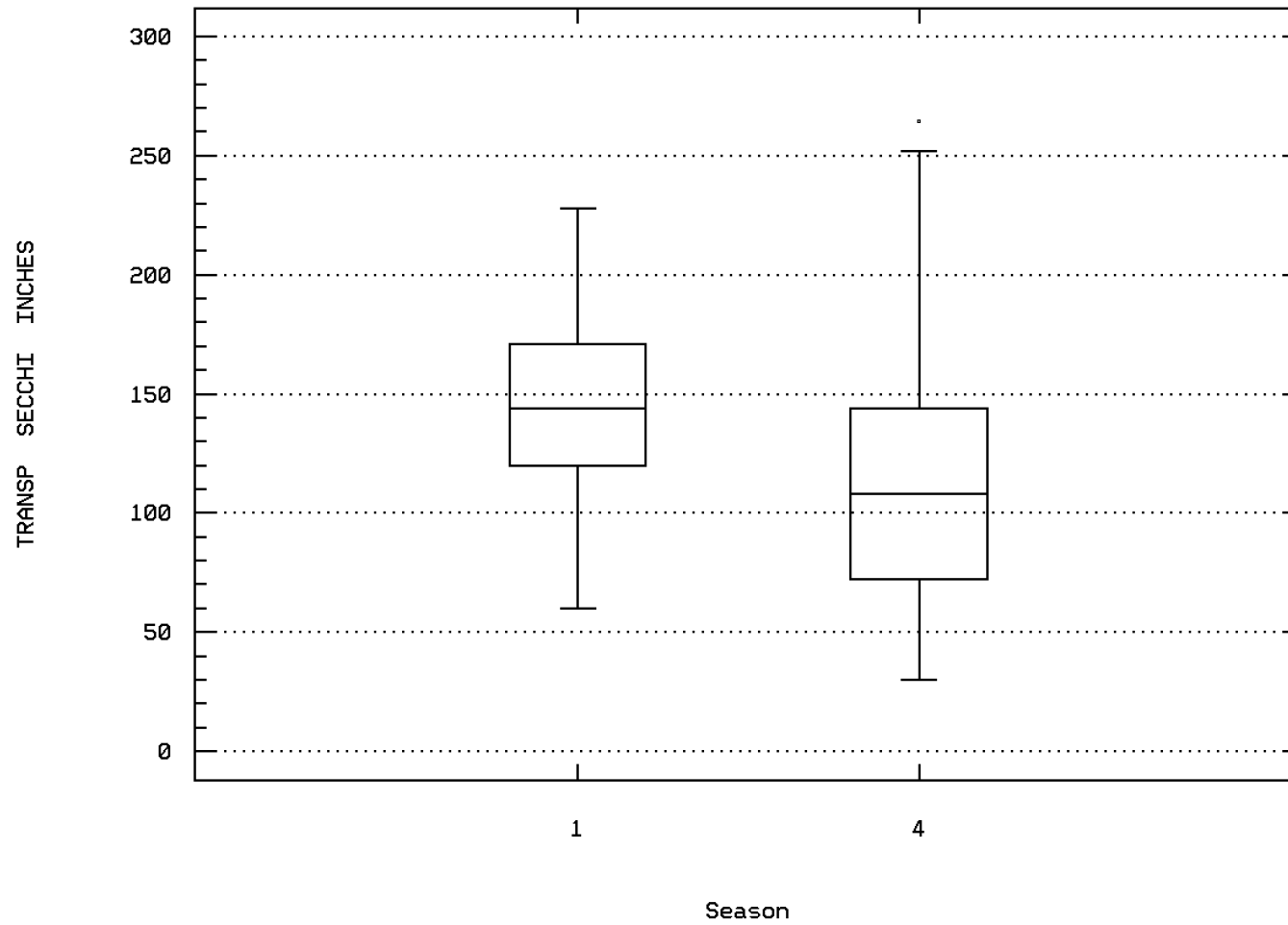
Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00077p TRANSPARENCY, SECCHI DISC (INCHES)	05/10/80-10/01/96	208	108.	110.077	264.	30.	2401.057	49.001	48.	72.	144.	174.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0041 Parameter Code: 00077

TRANSPARENCY, SECCHI DISC (INCHES)



Platte Lake at 90 Foot Basin

Station Inventory for Station: SLBE0042

NPS Station ID: SLBE0042
 Location: LOON LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.708031/ -86.129532

Depth of Water: 0
 Elevation: 177

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_L01
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

LOON LAKE LIES ALONG THE PLATTE RIVER. AFTER THE PLATTE RIVER PASSES THROUGH LOON LAKE IT CONTINUES ON AND FLOWS INTO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF LOON LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	142	16.5	16.173	25.5	7.	40.17	6.338	8.	9.5	22.	23.82
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/18/93-08/09/95	79	27.	26.506	28.	24.	2.945	1.716	24.	24.	28.	28.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	6	3.75	3.833	5.4	2.5	1.507	1.227	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	2	248.	248.	285.	211.	2738.	52.326	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	140	3.65	4.283	9.8	0.2	11.647	3.413	0.41	0.7	8.1	8.5
00406 PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	11	8.4	8.323	9.15	7.7	0.17	0.412	7.72	8.	8.6	9.04
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/25/90-08/09/95	11	8.4	8.163	9.15	7.7	0.198	0.445	7.72	8.	8.6	9.04
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-08/09/95	11	0.004	0.007	0.02	0.001	0.	0.006	0.001	0.003	0.01	0.019
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/25/90-08/03/92	6	148.	149.667	172.	130.	314.267	17.728	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-08/03/92	6	0.385	0.485	1.1	0.2	0.111	0.333	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/03/92	6 ##	0.04	0.085	0.2	0.025	0.007	0.082	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	8 ##	0.009	0.014	0.05	0.002	0.	0.016	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-08/18/93	7	1.6	1.543	2.9	0.6	0.63	0.793	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/03/92	6	1.55	2.617	5.5	0.9	4.762	2.182	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0042

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	140	73	0.52	82	50	0.61							58	23	0.40
00406 PH, FIELD	Other-Hi Lim.	9.	11	1	0.09	5	0	0.00							6	1	0.17
	Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00							6	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL I DET.	Drinking Water	10.	6	0	0.00	2	0	0.00							4	0	0.00
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	6	0	0.00	2	0	0.00							4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	21	17.	16.124	23.4	7.5	34.598	5.882	7.9	9.65	21.75	22.9
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	21	3.4	3.89	8.3	0.2	12.715	3.566	0.2	0.25	7.85	8.28

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	25	14.	14.22	22.	8.	23.002	4.796	8.	10.	17.	22.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	24	6.15	5.213	8.5	0.4	11.53	3.396	0.5	0.85	8.375	8.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	17	18.	15.824	22.	8.	35.154	5.929	8.	9.	21.5	22.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	17	4.3	4.947	9.8	0.7	14.911	3.862	0.7	0.85	8.9	9.72

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	33	21.	17.212	25.	7.	51.11	7.149	7.4	8.	23.5	24.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	32	1.7	2.3	8.4	0.5	4.575	2.139	0.5	0.5	3.15	6.18

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	24	21.25	18.792	23.	10.	24.781	4.978	10.25	13.5	23.	23.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	24	8.45	6.617	8.7	0.5	8.314	2.883	1.15	4.35	8.6	8.7

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

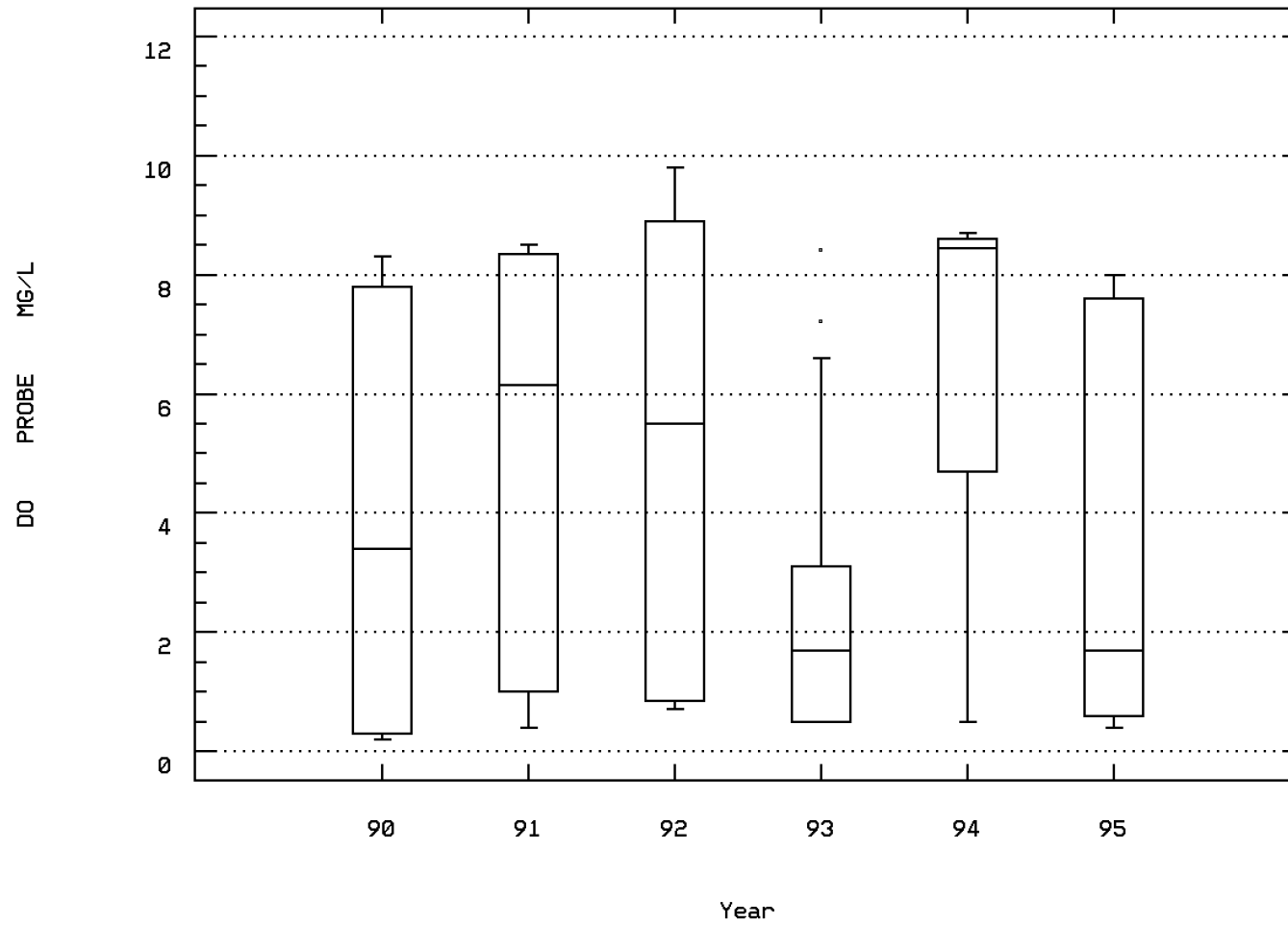
Annual Analysis for 1995 - Station SLBE0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	22	9.85	14.291	25.5	7.	60.779	7.796	7.5	7.5	24.25	25.3
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	22	1.7	3.468	8.	0.4	10.726	3.275	0.4	0.575	7.6	7.87

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0042 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



LOON LAKE

Station Inventory for Station: SLBE0043

NPS Station ID: SLBE0043

Location: LOON LAKE PHOSPHOROUS SAMPLING

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

LOON LAKE LIES ALONG THE PLATTE RIVER. AFTER THE PLATTE RIVER PASSES THROUGH LOON LAKE IT CONTINUES ON AND FLOWS INTO LAKE MICHIGAN. THE SITE IS LOCATED IN THE CENTER OF LOON LAKE. THIS SAMPLE WAS TAKEN ALONG WITH SAMPLES AT SIX OTHER SITES ALONG THE PLATTE RIVER ON AUGUST 18 1995. THESE SAMPLES PROVIDED A ONE-TIME SNAPSHOT OF THE PHOSPHOROUS GRADIENT FROM THE PLATTE RIVER M-22 CROSSING TO EL DORADO PARK ABOVE LAKE MICHIGAN. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.708031/ -86.129532

Depth of Water: 0

Elevation: 177

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_L22

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0043

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0044

NPS Station ID: SLBE0044 LAT/LON: 44.708892/ -86.065837

Location: LITTLE PLATTE LK IN N. BASIN, LAKE TWP, SEC. 25

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0653

RF1 Index: 04060104

RF3 Index: 04060104039200.00

Description:

LITTLE PLATTE LAKE IN AN 8 FOOT DEEP BASIN IN THE NORTHERN PORTION OF THE LAKE. THE BASIN IS LOCATED IN SECTION 25, T27N, R 15W, LAKE TOWN-SHIP, BENZIE COUNTY. SAMPLING SITE IS LOCATED 300 FEET WEST OF THE CENTER OF THE PENINSULA ON THE NORTH SHORE. INLET: NONE. OUTLET: STREAM TO NORTH BRANCH PLATTE RIVER.

Depth of Water: 8

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.26

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100122 /AC00805.0

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.03

Date Created: 12/13/80

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0044

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/80-08/27/80	1	21.8	21.8	21.8	21.8	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/27/80-08/27/80	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/80-08/27/80	1	223.	223.	223.	223.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/80-08/27/80	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/27/80-08/27/80	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	08/27/80-08/27/80	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	08/27/80-08/27/80	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/80-08/27/80	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/27/80-08/27/80	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/27/80-08/27/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/27/80-08/27/80	1	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/27/80-08/27/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/27/80-08/27/80	1	0.66	0.66	0.66	0.66	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/27/80-08/27/80	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/27/80-08/27/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/27/80-08/27/80	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/27/80-08/27/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/27/80-08/27/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/27/80-08/27/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	08/27/80-08/27/80	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/27/80-08/27/80	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0044

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	9.	1	0	0.00	1	0	0.00									
		6.5	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	860.	1	0	0.00	1	0	0.00									
		250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0045

NPS Station ID: SLBE0045

Location: LOON LAKE NUTRIENT AND CHLOROPHYLL A

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

LOON LAKE LIES ALONG THE PLATTE RIVER. AFTER THE PLATTE RIVER PASSES THROUGH LOON LAKE IT CONTINUES ON AND FLOWS INTO LAKE MICHIGAN. THE SITE WAS USED FOR NUTRIENT AND PHOSPHOROUS SAMPLING IN 1994. IT IS LOCATED ON THE EAST SIDE OF THE LAKE JUST SOUTH OF WHERE THE PLATTE RIVER ENTERS LOON LAKE NEAR THE BOAT RAMP. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.709531/ -86.126421

Depth of Water: 0

Elevation: 177

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_L23

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0045

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0046

NPS Station ID: SLBE0046
Location: EL DORADO PARK
Station Type: /TYP/A/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 04060104
Major Basin: MICHIGAN
Minor Basin: PLATTE RIVER
RF1 Index: 04060104
RF3 Index: 04060104000500.00
Description:
SITE IS AT EL DORADO PARK AT THE END OF LAKE MICHIGAN ROAD JUST BEFORE THE PLATTE RIVER REACHES LAKE MICHIGAN. SITE WAS ORIGINALLY ESTABLISHED AS PART OF THE PLATTE RIVER PHOSPHOROUS SAMPLING CONDUCTED BY SLEEPING BEAR DUNES NATIONAL LAKESHORE. INITIAL PHOSPHOROUS SAMPLING OCCURRED AT THIS SITE ON AUGUST 18 1995. THIS SAMPLE WAS PART OF A GROUP OF SAMPLES TAKEN ON THIS DATE WITH THE INTENT OF PROVIDING A ONE-TIME SNAPSHOT OF THE PHOSPHOROUS GRADIENT FROM THE PLATTE RIVER M-22 CROSSING TO EL DORADO PARK ABOVE LAKE MICHIGAN. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.710142/-86.142810

Depth of Water: 0
Elevation: 176

RF1 Mile Point: 0.000
RF3 Mile Point: 5.47

Agency: 11NPSWRD
FIPS State/County: 26019 MICHIGAN/BENZIE
STORET Station ID(s): SLBE_S19
Within Park Boundary: Yes

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 2.70
Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: SLBE0046

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0047

NPS Station ID: SLBE0047	LAT/LON: 44.710365/ -86.127059	Agency: 11NPSWRD	Date Created: 03/09/96
Location: LOON LAKE INLET		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYP/AMBNT/STREAM		STORET Station ID(s): SLBE_S18	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 177	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description: SITE IS APPROXIMATELY 25 FEET UPSTREAM OF THE LOON LAKE INLET ON THE PLATTE RIVER. SITE WAS ORIGINALLY ESTABLISHED AS PART OF THE PLATTE RIVER PHOSPHOROUS SAMPLING CONDUCTED BY SLEEPING BEAR DUNES NATIONAL LAKESHORE. INITIAL PHOSPHOROUS SAMPLING OCCURRED AT THIS SITE ON AUGUST 18 1995. THIS SAMPLE WAS PART OF A GROUP OF SAMPLES TAKEN ON THIS DATE WITH THE INTENT OF PROVIDING A ONE-TIME SNAPSHOT OF THE PHOSPHOROUS GRADIENT FROM THE PLATTE RIVER M-22 CROSSING TO EL DORADO PARK ABOVE LAKE MICHIGAN. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0047

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0048

NPS Station ID: SLBE0048 LAT/LON: 44.710837/ -86.118892
 Location: PLATTE RIVER AT M-22 NR HONOR, MICHIGAN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 04060104016 RF1 Mile Point: 2.660
 RF3 Index: 04060104038100.00 RF3 Mile Point: 1.29
 Description:

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 04126755
 Within Park Boundary: Yes

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 10.80
 Distance from RF3: 0.23

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: SLBE0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/14/79-10/28/81	3	11.5	12.5	18.	8.	25.75	5.074	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/80-05/15/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/14/79-10/28/81	3	160.	165.667	179.	158.	134.333	11.59	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/14/79-10/28/81	3	1.4	1.467	2.	1.	0.253	0.503	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/15/80-10/28/81	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/14/79-08/14/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/79-10/28/81	3	295.	298.667	320.	281.	390.333	19.757	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/14/79-10/28/81	3	10.8	10.267	11.	9.	1.213	1.102	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/14/79-10/28/81	3	97.	96.667	102.	91.	30.333	5.508	**	**	**	**
00400 PH (STANDARD UNITS)	08/14/79-10/28/81	3	8.3	8.267	8.3	8.2	0.003	0.058	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/14/79-10/28/81	3	8.3	8.264	8.3	8.2	0.003	0.058	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/14/79-10/28/81	3	0.005	0.005	0.006	0.005	0.	0.001	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/28/81-10/28/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/28/81-10/28/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/81-10/28/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/14/79-05/15/80	2	1.5	1.5	1.6	1.4	0.02	0.141	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/14/79-05/15/80	2	151.5	151.5	160.	143.	144.5	12.021	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/14/79-05/15/80	2	187.	187.	200.	174.	338.	18.385	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/14/79-05/15/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-10/28/81	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-05/15/80	2	0.125	0.125	0.19	0.06	0.008	0.092	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/14/79-10/28/81	3	0.06	0.103	0.2	0.05	0.007	0.084	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/14/79-10/28/81	3 ##	0.005	0.003	0.005	0.	0.	0.003	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/15/80-10/28/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/14/79-10/28/81	3	150.	153.333	160.	150.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/14/79-05/15/80	2	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/14/79-10/28/81	3	42.	43.	46.	41.	7.	2.646	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/14/79-10/28/81	3	12.	11.667	12.	11.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	08/14/79-10/28/81	3	4.2	4.033	4.2	3.7	0.083	0.289	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/14/79-10/28/81	3	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
00932 SODIUM, PERCENT	08/14/79-10/28/81	3	5.	5.333	6.	5.	0.333	0.577	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/14/79-10/28/81	3	0.6	0.6	0.7	0.5	0.01	0.1	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/14/79-10/28/81	3	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/14/79-10/28/81	3	11.	11.333	12.	11.	0.333	0.577	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/14/79-10/28/81	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/14/79-10/28/81	3	3.3	3.8	5.6	2.5	2.59	1.609	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/14/79-10/28/81	3	1.	1.667	3.	1.	1.333	1.155	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01005	BARIUM, DISSOLVED (UG/L AS BA)	3	30.	30.	40.	20.	100.	10.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	3	3.	2.667	5.	0.	6.333	2.517	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	3 ##	0.5	1.167	3.	0.	2.583	1.607	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	3	5.	3.333	5.	0.	8.333	2.887	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	3	0.5	0.5	1.	0.	0.25	0.5	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	3	2.	1.333	2.	0.	1.333	1.155	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**	**
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	1	57.	57.	57.	57.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	1	1.756	1.756	1.756	1.756	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =		57.								
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	3	179.	177.667	180.	174.	10.333	3.215	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	3	163.	169.	183.	161.	148.	12.166	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	3	77.3	79.4	84.1	76.8	16.63	4.078	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	3	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	2	0.55	0.55	0.8	0.3	0.125	0.354	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	2	0.015	0.015	0.03	0.	0.	0.021	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	3 ##	0.1	0.133	0.25	0.05	0.011	0.104	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0048

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	3	0	0.00	2	0	0.00							1	0	0.00
00300	OXYGEN, DISSOLVED	4.	3	0	0.00	2	0	0.00							1	0	0.00
00400	PH	9.	3	0	0.00	2	0	0.00							1	0	0.00
		6.5	3	0	0.00	2	0	0.00							1	0	0.00
00403	PH, LAB	9.	1	0	0.00	1	0	0.00									
		6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	3	0	0.00	2	0	0.00							1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	10.	2	0	0.00	1	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	3	0	0.00	2	0	0.00							1	0	0.00
00720	CYANIDE, TOTAL	0.022	2	0	0.00	1	0	0.00							1	0	0.00
		0.2	2	0	0.00	1	0	0.00							1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	22.	1	0	0.00	1	0	0.00									
		200.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	860.	3	0	0.00	2	0	0.00							1	0	0.00
		250.	3	0	0.00	2	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	250.	3	0	0.00	2	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	4.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0048

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	3	1	0.33	2	0	0.00							1	1	1.00
	Drinking Water	5.	3	1	0.33	2	0	0.00							1	1	1.00
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRLN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0049

NPS Station ID: SLBE0049	LAT/LON: 44.711142/ -86.118448	Agency: 11NPSWRD	Date Created: 11/30/96
Location: Platte River at Platte Lake Outflow		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYP/AMBNT/STREAM		STORET Station ID(s): SLBE_PR_06	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: PLATTE		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
This station is located on the Beulah Michigan 7.5 minute USGS topographic quadrangle and lies west of the Platte Lake outflow where State Highway 22 crosses the Platte River. Data were gathered in conjunction with the case: Platte Lake Improvement Association v Michigan Department of Natural Resources-Ingham County Court Case No. 86-57122-CE. Questions regarding the data may be answered by Joseph T. Fuss-Court Master (Aquatic Systems Engineering) PH.(717)376-2025; Wilfred Swiecki-President-Platte Lake Improvement Assoc. PH.(810)553-3110; or Hatchery Manager-Platte River State Fish Hatchery PH.(616)375-4611. This station is one of six river and four lake stations comprising the dataset. Data processed and uploaded to STORET by Jill Minter National Park Service Water Resources Division Fort Collins Colorado. PH.(970)225-3514.			

Parameter Inventory for Station: SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	73	46.	50.704	77.	32.	205.067	14.32	34.28	38.	65.45	72.
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	84	177.	181.393	267.	128.	734.723	27.106	155.	165.	197.	223.
00300 OXYGEN, DISSOLVED MG/L	11/30/89-01/09/91	24	11.9	11.979	14.4	9.6	2.018	1.421	9.75	10.85	13.175	13.9
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	246	0.008	0.008	0.018	0.002	0.	0.002	0.005	0.007	0.009	0.011
00937 POTASSIUM, TOTAL MG/L AS K)	12/22/92-12/22/92	1	1.66	1.66	1.66	1.66	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0049

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	24	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
						9	0	0.00	5	0	0.00	2	0	0.00	8	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1989 - Station SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	2	34.15	34.15	36.3	32.	9.245	3.041	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	2	181.	181.	197.	165.	512.	22.627	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	4	0.009	0.009	0.013	0.006	0.	0.003	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1990 - Station SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	24	59.8	56.321	75.1	34.7	181.94	13.489	38.6	41.25	68.675	71.65
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	30	170.	177.9	250.	138.	782.99	27.982	148.	161.	190.5	228.
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	86	0.009	0.009	0.018	0.002	0.	0.003	0.006	0.007	0.01	0.012

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	1	32.8	32.8	32.8	32.8	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	1	165.	165.	165.	165.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	3	0.009	0.009	0.009	0.008	0.	0.001	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	13	42.	47.892	72.	34.	190.017	13.785	34.8	38.	60.8	71.6
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	17	180.	174.353	222.	128.	785.493	28.027	128.	158.	190.5	215.6
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	51	0.008	0.008	0.011	0.005	0.	0.002	0.006	0.006	0.009	0.01

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	24	52.	52.583	77.	34.	219.993	14.832	35.5	38.	67.	74.5
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	24	177.	184.917	267.	155.	809.558	28.453	156.	163.5	197.75	226.5
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	72	0.007	0.007	0.011	0.003	0.	0.002	0.005	0.006	0.009	0.01

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/30/89-05/17/94	9	36.	40.444	54.	34.	58.778	7.667	34.	34.	48.	54.
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/89-05/17/94	10	194.5	197.1	229.	177.	259.211	16.1	177.3	183.75	208.5	227.1
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/30/89-05/17/94	30	0.007	0.008	0.013	0.004	0.	0.002	0.005	0.006	0.008	0.012

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0050

NPS Station ID: SLBE0050

Location: UPSTREAM OF FISH CLEANING STATION

Station Type: /TYP/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

SITE IS LOCATED JUST DOWNSTREAM OF PLATTE LAKE ON THE PLATTE RIVER AND UPSTREAM OF THE FISH CLEANING STATION. SITE WAS ORIGINALLY ESTABLISHED AS PART OF THE PLATTE RIVER PHOSPHOROUS SAMPLING CONDUCTED BY SLEEPING BEAR DUNES NATIONAL LAKESHORE. INITIAL PHOSPHOROUS SAMPLING OCCURRED AT THIS SITE ON AUGUST 18 1995. THIS SAMPLE WAS PART OF A GROUP OF SAMPLES TAKEN ON THIS DATE WITH THE INTENT OF PROVIDING A ONE-TIME SNAPSHOT OF THE PHOSPHOROUS GRADIENT FROM THE PLATTE RIVER M-22 CROSSING TO EL DORADO PARK ABOVE LAKE MICHIGAN. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.712420/ -86.120226

Depth of Water: 0

Elevation: 178

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_S15

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0050

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0051

NPS Station ID: SLBE0051
 Location: PLATTE RIVER UPSTREAM
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.712531/ -86.119587

Depth of Water: 0
 Elevation: 177

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_S01
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED APPROXIMATELY 100 YARDS DOWNSTREAM OF THE M22 BRIDGE AND DIRECTLY BELOW THE CANOE LANDING. THE RIVER AT THIS POINT IS RELATIVELY WIDE AND SHALLOW. RIPARIAN VEGETATION AT THE SITE CONSISTS OF MATURE OAK MAPLE AND BIRCH TREES WHICH SHADES MOST OF THE CHANNEL. ONLY THREE TO FOUR HOURS OF DIRECT SUNLIGHT REACH THE CHANNEL PER DAY. THE SUBSTRATE INCLUDES GRAVEL SAND AND SOME MARL DEPOSITS. SHELL FRAGMENTS WERE COMMONLY FOUND BELOW THE SAND. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0051

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/90-08/10/95	30	19.5	18.133	25.5	6.	23.551	4.853	9.75	15.75	22.	22.9
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-08/10/95	28	310.	309.536	375.	233.	804.554	28.365	273.3	300.	325.	341.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/30/90-08/10/95	27	8.7	9.03	15.	6.2	2.959	1.72	7.18	8.1	9.8	11.04
00406 PH, FIELD, STANDARD UNITS SU	04/24/90-08/10/95	31	8.4	8.339	8.9	6.8	0.136	0.368	8.02	8.2	8.6	8.68
00406 CONVERTED PH, FIELD, STANDARD UNITS	04/24/90-08/10/95	31	8.4	8.015	8.9	6.8	0.244	0.494	8.02	8.2	8.6	8.68
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/90-08/10/95	31	0.004	0.01	0.158	0.001	0.001	0.028	0.002	0.003	0.006	0.01
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/30/90-09/21/92	24	140.	139.833	150.	128.	29.536	5.435	132.	135.	143.5	147.
00600 NITROGEN, TOTAL (MG/L AS N)	04/30/90-09/21/92	27 ##	0.25	0.274	0.6	0.15	0.016	0.128	0.15	0.2	0.3	0.51
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/90-09/21/92	27	0.3	0.331	1.	0.05	0.037	0.193	0.1	0.2	0.4	0.52
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/30/90-09/21/92	27 ##	0.05	0.082	0.4	0.005	0.007	0.082	0.041	0.05	0.1	0.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/30/90-09/21/92	27 ##	0.005	0.019	0.11	0.001	0.001	0.029	0.003	0.005	0.02	0.078
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	05/29/90-09/19/90	2	18.9	18.9	19.2	18.6	0.18	0.424	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/24/90-04/24/90	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	04/24/90-04/24/90	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	12/07/90-12/07/90	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	12/07/90-12/07/90	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	04/24/90-04/24/90	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	04/24/90-04/24/90	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	04/24/90-04/24/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	12/07/90-12/07/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-11/05/91	4	10.5	11.375	15.	9.5	6.229	2.496	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/07/90	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/07/90	2	5.75	5.75	5.9	5.6	0.045	0.212	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/07/90-12/07/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/07/90-12/07/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/90-11/05/91	3 ##	5.	10.	20.	5.	75.	8.66	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/07/90-12/07/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/90-12/07/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/07/90-12/07/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/90-12/07/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/90-11/05/91	3	30.	35.	70.	5.	1075.	32.787	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	12/07/90-12/07/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/12/90-09/21/92	24	1.6	1.688	3.1	0.7	0.505	0.71	0.85	1.	2.175	2.9
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/07/90-12/07/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/06/90-09/21/92	22	1.4	1.709	4.7	0.9	0.654	0.809	1.13	1.3	2.025	2.69
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-11/05/91	4	5.4	5.2	5.6	4.4	0.3	0.548	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0051

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	27	0	0.00	11	0	0.00						16	0	0.00
00406	PH, FIELD	Other-Hi Lim.	9.	31	0	0.00	14	0	0.00						17	0	0.00
		Other-Lo Lim.	6.5	31	0	0.00	14	0	0.00						17	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	27	0	0.00	13	0	0.00						14	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00				1	0	0.00			1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00									1	0	0.00
		Drinking Water	50.	1	0	0.00									1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00					
		Drinking Water	50.	1	0	0.00				1	0	0.00					
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00											
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00									1	0	0.00
		Drinking Water	4.	1	0	0.00									1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00				1	0	0.00					
		Drinking Water	4.	0 &	0	0.00											

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0051

Parameter	Std. Type	Std. Value	Total			8/01-11/30			12/01-2/29			3/01-4/14			4/15-7/31		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0			0.00							1	0	0.00
		Drinking Water	5.	1	0			0.00							1	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0			0.00									
		Drinking Water	5.	1	0			0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0			0.00							1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0			0.00	1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0			0.00							1	0	0.00
		Drinking Water	1300.	1	0			0.00							1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	1	0			0.00	1	0	0.00						
		Drinking Water	1300.	1	0			0.00	1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0			0.00							1	0	0.00
		Drinking Water	15.	1	0			0.00							1	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	1	0			0.00	1	0	0.00						
		Drinking Water	15.	1	0			0.00	1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0			0.00							1	0	0.00
		Drinking Water	100.	1	0			0.00							1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0			0.00	1	0	0.00						
		Drinking Water	100.	1	0			0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0			0.00							1	0	0.00
		Drinking Water	100.	1	0			0.00							1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0			0.00							1	0	0.00
		Drinking Water	5000.	1	0			0.00							1	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	1	0			0.00	1	0	0.00						
		Drinking Water	5000.	1	0			0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0			0.00	1	0	0.00						
		Drinking Water	50.	1	0			0.00	1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0			0.00							1	0	0.00
		Drinking Water	2.	1	0			0.00							1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0			0.00	1	0	0.00						
		Drinking Water	2.	1	0			0.00	1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	22	0	13	0	0.00							9	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	4	0	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	250000.	4	0	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0052

NPS Station ID: SLBE0052 LAT/LON: 44.713059/ -86.119448

Location: PLATTE R AT W END MICH. RD; LAKE TWP, SEC 20

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0651

RF1 Index: 04060104016

RF3 Index: 04060104041002.56

Description:

PLATTE RIVER AT THE WEST END OF MICHIGAN ROAD NEAR THE MOUTH OF THE RIVER DOWNSTREAM FROM FROM THE LOWER DNR WEIR, BENZIE COUNTY, T27N, R15W

SECTION 20, LAKE TOWNSHIP

HATCHERY

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 2.520

RF3 Mile Point: 5.35

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100065

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.38

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/68-01/08/75	40	15.25	13.743	25.5	0.	84.296	9.181	0.32	3.875	22.	24.9
00019 SAMPLE WEIGHT IN GRAMS	09/27/81-09/29/81	42	3085.	3379.762	6790.	1800.	1473090.186	1213.709	2050.	2470.	4062.5	5147.
00023 SAMPLE WEIGHT IN POUNDS	11/09/72-09/25/80	86	6.2	8.286	24.	0.9	33.264	5.768	3.1	4.3	9.75	18.8
00024 SAMPLE LENGTH IN INCHES	11/09/72-09/25/80	76	26.15	27.421	40.	14.	31.537	5.616	21.29	24.075	30.375	36.65
00032 CLOUD COVER (PERCENT)	01/21/74-07/11/74	4	60.	55.	100.	0.	2766.667	52.599	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	01/21/74-07/11/74	4	16.	15.5	20.	10.	19.667	4.435	**	**	**	**
00039 SAMPLE LENGTH IN MILLIMETERS	09/27/81-09/29/81	42	720.	742.262	1060.	560.	13453.905	115.991	628.	670.	765.	956.5
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/08/70-05/28/74	28	2.	2.218	5.	1.	1.396	1.182	1.	1.35	2.75	4.1
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/11/74-01/08/75	4	2.55	3.525	8.	1.	10.316	3.212	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/13/73-01/08/75	8	285.	287.5	305.	275.	114.286	10.69	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	42	9.9	10.136	13.4	7.1	3.53	1.879	7.6	8.8	11.8	12.8
00310 BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	33	1.5	1.953	8.	0.1	3.012	1.735	0.48	1.05	2.5	3.22
00400 PH (STANDARD UNITS)	07/22/68-01/08/75	34	8.3	8.253	8.6	7.8	0.03	0.174	8.	8.1	8.4	8.45
00400 CONVERTED PH (STANDARD UNITS)	07/22/68-01/08/75	34	8.3	8.217	8.6	7.8	0.032	0.178	8.	8.1	8.4	8.45
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/68-01/08/75	34	0.005	0.006	0.016	0.003	0.	0.003	0.004	0.004	0.008	0.01
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/22/68-01/08/75	34	3.5	3.926	14.	0.	10.154	3.186	1.	1.	5.25	7.
00546 RESIDUE, SETTLEABLE (MG/L)	09/08/70-07/11/74	24	0.	0.021	0.5	0.	0.01	0.102	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-08/23/72	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/22/68-01/08/75	36	0.02	0.024	0.09	0.	0.	0.022	0.004	0.01	0.03	0.056
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/70-01/21/74	28	0.005	0.006	0.01	0.	0.	0.004	0.	0.001	0.01	0.01
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	05/02/74-01/08/75	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/22/68-01/08/75	36	0.1	0.139	0.35	0.	0.01	0.102	0.007	0.05	0.208	0.266
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/22/68-01/08/75	34	0.02	0.024	0.09	0.	0.	0.018	0.005	0.01	0.03	0.045
01004 ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/24/80-09/25/80	21 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/24/80-09/25/80	21 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/22/68-01/08/75	37	300.	1408.243	11700.	5.	8118291.967	2849.262	50.	50.	1500.	4580.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	07/22/68-01/08/75	37	2.477	2.422	4.068	0.699	0.698	0.836	1.699	1.699	3.175	3.636
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			264.286								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	5.	8.784	50.	5.	81.119	9.007	5.	5.	10.	20.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/22/68-01/08/75	37 ##	0.699	0.837	1.699	0.699	0.068	0.261	0.699	0.699	1.	1.301
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.863								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34258	B-BHC-BETA WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
34263	DELTA BENZENE HEXACHLORIDE WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
34365	ENDOSULFAN, ALPHA WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
34370	ENDRIN ALDEHYDE WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
34667	PCB - 1232 WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1
34669	PCB - 1248 WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1
34670	PCB - 1260 WET WGT TISM/G/KG	09/24/80-09/29/81	63 ##	0.05	0.129	0.3	0.05	0.011	0.103	0.05	0.05	0.25
34674	PCB - 1016 WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/24/80-09/29/81	63 ##	0.05	0.035	0.05	0.005	0.	0.021	0.005	0.005	0.05
34682	CHLORDANE(TECH MIX & METABS), TISSUE WET WGT, MG/KG	09/24/80-09/25/80	21 ##	0.06	0.056	0.075	0.025	0.	0.01	0.05	0.05	0.06
34685	ENDRIN WET WGT TISM/G/KG	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
34686	HEPTACHLOR EPOXIDE WET WGT TISM/G/KG	09/24/80-09/29/81	63 ##	0.05	0.047	0.075	0.01	0.	0.011	0.025	0.05	0.05
34687	HEPTACHLOR WET WGT TISM/G/KG	09/24/80-09/29/81	63 ##	0.05	0.036	0.05	0.005	0.	0.02	0.005	0.01	0.05
34688	HEXACHLOROBENZENE WET WGT TISM/G/KG	09/24/80-09/25/80	21 ##	0.006	0.007	0.015	0.005	0.	0.002	0.005	0.005	0.008
34689	PCB - 1242 WET WGT TISM/G/KG	09/24/80-09/29/81	63 ##	0.05	0.174	0.5	0.05	0.028	0.169	0.05	0.05	0.3
34690	PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	128	1.42	2.28	14.	0.29	6.041	2.458	0.517	0.952	2.45
34691	TOXAPHENE WET WGT TISM/G/KG	09/24/80-09/29/81	63 ##	0.5	1.	4.	0.5	0.742	0.861	0.5	0.5	1.5
39074	BHC-ALPHA ISOMER, TISSUE UG/G WET WGT	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
39105	PERCENT FAT HEXANE EXTRACTION	10/27/78-09/29/81	108	1.75	2.002	6.8	0.2	2.458	1.568	0.5	0.9	2.4
39302	P P DDT IN TISSUE WET WGT (UG/G)	09/24/80-09/29/81	63 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
39312	P P DDT IN TISSUE WET WGT (UG/G)	09/24/80-09/29/81	63 ##	0.05	0.046	0.05	0.025	0.	0.01	0.025	0.05	0.05
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/24/80-09/29/81	63	0.51	0.668	3.4	0.07	0.39	0.624	0.128	0.27	0.82
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23 ##	0.001	0.003	0.019	0.001	0.	0.005	0.001	0.001	0.005
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	23	0.003	0.016	0.128	0.001	0.001	0.028	0.001	0.001	0.029
39376	DDT SUM ANALOGS IN TISSUE WET WGT BASIS	11/09/72-09/29/81	128	0.645	0.997	6.75	0.07	1.428	1.195	0.228	0.36	1.125
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/30/70-12/11/72	21 ##	0.001	0.001	0.005	0.	0.	0.001	0.	0.	0.001
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	128	0.03	0.034	0.17	0.005	0.001	0.028	0.005	0.02	0.05
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/71-12/11/72	19 ##	0.005	0.011	0.089	0.001	0.	0.021	0.001	0.005	0.005
39515	PCBS (MG/KG) FISH TISSUE MG/KG	09/24/80-09/29/81	63	1.4	2.44	14.	0.29	6.056	2.461	0.536	1.	2.9
39785	GAMMA-BHC(LINDANE), TISSUE, WET WEIGHT, MG/KG	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
47004	SOLIDS, TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	08/23/72-08/23/72	1	185.	185.	185.	185.	0.	0.	**	**	**
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/68-01/08/75	15 ##	0.005	0.007	0.02	0.005	0.	0.004	0.005	0.005	0.01
71930	MERCURY, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/09/72-09/25/80	25	0.3	0.264	0.65	0.05	0.037	0.191	0.05	0.1	0.4
71936	LEAD, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	21 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.
71937	COPPER, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	21 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.
71938	ZINC, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	21 ##	5.	5.333	12.	5.	2.333	1.528	5.	5.	5.
71939	CHROMIUM, TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/24/80-09/25/80	21 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.
71940	CADMIUM, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/24/80-09/25/80	21 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.
81644	METHOXYCHLOR IN FISH TISSUE, UG/G WET WEIGHT	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/27/81-09/29/81	42 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
84015	AGE IN YEARS OF SPECIMEN COLLECTED YEARS	09/27/81-09/29/81	42	30001.	33096.238	50001.	30001.	41405342.625	6434.698	30001.	30001.	30001.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0052

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	28	0	0.00	10	0	0.00	5	0	0.00	5	0	0.00	8	0
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	1	0
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	42	0	0.00	13	0	0.00	6	0	0.00	5	0	0.00	18	0
00400	PH	Other-Hi Lim.	9.	34	0	0.00	11	0	0.00	7	0	0.00	5	0	0.00	11	0
		Other-Lo Lim.	6.5	34	0	0.00	11	0	0.00	7	0	0.00	5	0	0.00	11	0
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	28	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	8	0
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	3	0
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	36	0	0.00	13	0	0.00	7	0	0.00	5	0	0.00	11	0
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMEDIATE	Other-Hi Lim.	1000.	37	12	0.32	13	7	0.54	7	0	0.00	4	0	0.00	13	5
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	37	0	0.00	13	0	0.00	7	0	0.00	4	0	0.00	13	0
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	23	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00	6	0

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39380	DIELDRLN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	21	0	0.00	9	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1972 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34690 PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	4	11.145	11.05	11.42	10.49	0.16	0.4	**	**	**	**
39376 DDT SUM ANALOGS INTISSUE WET WGT BASIS	11/09/72-09/29/81	4	6.56	6.538	6.75	6.28	0.055	0.234	**	**	**	**
39404 DIELDRLN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	4	0.065	0.065	0.08	0.05	0.	0.017	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34690 PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	12	1.745	2.01	4.92	0.35	1.605	1.267	0.542	1.173	2.9	4.488
39376 DDT SUM ANALOGS INTISSUE WET WGT BASIS	11/09/72-09/29/81	12	0.975	1.25	3.64	0.17	0.926	0.962	0.275	0.635	1.78	3.247
39404 DIELDRLN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	12	0.02	0.028	0.06	0.01	0.	0.018	0.01	0.01	0.048	0.057

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34690 PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	30	1.655	1.628	3.35	0.36	0.72	0.849	0.47	0.982	2.375	2.7
39376 DDT SUM ANALOGS INTISSUE WET WGT BASIS	11/09/72-09/29/81	30	1.02	1.102	2.19	0.23	0.413	0.643	0.262	0.568	1.675	2.099
39404 DIELDRLN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	30	0.025	0.036	0.17	0.01	0.001	0.036	0.01	0.02	0.04	0.059

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34690 PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	40	1.835	2.819	14.	0.46	7.953	2.82	0.582	0.975	4.025	6.77
39376 DDT SUM ANALOGS INTISSUE WET WGT BASIS	11/09/72-09/29/81	40	0.715	0.896	3.4	0.21	0.441	0.664	0.36	0.493	1.073	1.77
39404 DIELDRLN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	40	0.03	0.034	0.1	0.005	0.001	0.023	0.005	0.02	0.048	0.06

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34690 PCB - 1254 WET WGT TISM/G/KG	11/09/72-09/29/81	42	1.2	1.475	5.5	0.29	1.413	1.189	0.483	0.68	1.5	2.97
39376 DDT SUM ANALOGS INTISSUE WET WGT BASIS	11/09/72-09/29/81	42	0.355	0.417	1.2	0.07	0.082	0.286	0.12	0.225	0.583	0.865
39404 DIELDRLN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	42	0.02	0.03	0.1	0.005	0.001	0.027	0.005	0.01	0.05	0.081

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00023	SAMPLE WEIGHT IN POUNDS	11/09/72-09/25/80	86	6.2	8.286	24.	0.9	33.264	5.768	3.1	4.3	9.75	18.8
00024	SAMPLE LENGTH IN INCHES	11/09/72-09/25/80	76	26.15	27.421	40.	14.	31.537	5.616	21.29	24.075	30.375	36.65
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	13	8.9	9.192	10.8	7.1	1.236	1.112	7.38	8.7	10.4	10.72
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	12	1.2	1.604	8.	0.25	4.327	2.08	0.295	0.6	1.3	6.26
34690	PCB - 1254 WET WGT TISM/G	11/09/72-09/29/81	128	1.42	2.28	14.	0.29	6.041	2.458	0.517	0.952	2.45	4.812
39376	DDT SUM ANALOGS IN TISSUE WET WGT BASIS	11/09/72-09/29/81	128	0.645	0.997	6.75	0.07	1.428	1.195	0.228	0.36	1.125	2.009
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/09/72-09/29/81	128	0.03	0.034	0.17	0.005	0.001	0.028	0.005	0.02	0.05	0.06

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 12/01 to 2/29 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	6	12.8	12.617	13.4	11.4	0.722	0.85	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	6	2.05	2.883	7.7	0.6	6.598	2.569	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	5	11.8	12.04	12.8	11.4	0.388	0.623	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	5	2.4	2.14	2.6	1.3	0.328	0.573	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00300	OXYGEN, DISSOLVED MG/L	07/22/68-09/03/74	18	9.2	9.461	12.8	7.5	2.937	1.714	7.59	7.6	11.	12.08
00310	BOD, 5 DAY, 20 DEG C MG/L	07/22/68-09/03/74	10	1.75	1.72	2.8	0.1	0.788	0.888	0.16	1.	2.5	2.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0053

NPS Station ID: SLBE0053

Location: DOWNSTREAM OF FISH CLEANING STATION

Station Type: /TYP/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

SITE IS LOCATED JUST DOWNSTREAM OF PLATTE LAKE ON THE PLATTE RIVER AND DOWNSTREAM OF THE FISH CLEANING STATION AT THE END OF THE SEPTIC FIELD CLEARING. SITE WAS ORIGINALLY ESTABLISHED AS PART OF THE PLATTE RIVER PHOSPHOROUS SAMPLING PROGRAM AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. INITIAL PHOSPHOROUS SAMPLING OCCURRED AT THIS SITE ON AUGUST 18 1995. THIS SAMPLE WAS PART OF A GROUP OF SAMPLES TAKEN ON THIS DATE WITH THE INTENT OF PROVIDING A ONE-TIME SNAPSHOT OF THE PHOSPHOROUS GRADIENT FROM THE PLATTE RIVER M-22 CROSSING TO EL DORADO PARK ABOVE LAKE MICHIGAN. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.713477/ -86.121254

Depth of Water: 0

Elevation: 178

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_S16

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0053

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0054

NPS Station ID: SLBE0054

Location: MUD LAKE OUTLET

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

SITE IS APPROXIMATELY 25 FEET ABOVE THE OUTLET OF MUD LAKE. SITE WAS CONDUCTED BY SLEEPING BEAR DUNES NATIONAL LAKESHORE. INITIAL PHOSPHOROUS SAMPLING OCCURRED AT THIS SITE ON AUGUST 18 1995. THIS SAMPLE WAS PART OF A GROUP OF SAMPLES TAKEN ON THIS DATE WITH THE INTENT OF PROVIDING A ONE-TIME SNAPSHOT OF THE PHOSPHOROUS GRADIENT FROM THE PLATTE RIVER M-2 CROSSING TO EL DORADO PARK ABOVE LAKE MICHIGAN. QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS

LAT/LON: 44.714920/ -86.126976

Depth of Water: 0

Elevation: 177

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_S17

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0054

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/08/95-08/08/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0055

NPS Station ID: SLBE0055 Location: PLATTE RIVER BELOW LOON LAKE Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: SITE IS LOCATED JUST DOWNSTREAM OF LOON LAKE ON THE PLATTE RIVER. THIS SITE WAS ORIGINALLY ESTABLISHED AS PART OF THE LAKE OVERTURN SAMPLING CONDUCTED BY SLEEPING BEAR DUNES NATIONAL LAKESHORE. LAKE OVERTURN SAMPLING OCCURRED AT THIS SITE IN APRIL AND NOVEMBER OF 1991. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.718060/ -86.136503 Depth of Water: 0 Elevation: 177 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26019 MICHIGAN/BENZIE STORET Station ID(s): SLBE_S14 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76	Date Created: 03/09/96 On/Off RF1: On/Off RF3:

Parameter Inventory for Station: SLBE0055

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/08/95-08/08/95	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	04/09/91-11/05/91	2	10.25	10.25	11.	9.5	1.125	1.061	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	04/09/91-11/05/91	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	04/09/91-11/05/91	2 ##	32.5	32.5	60.	5.	1512.5	38.891	**	**	**	**
82295 CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/09/91-11/05/91	2	5.8	5.8	6.	5.6	0.08	0.283	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0055

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
82295 CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	2	0	0.00	1	0	0.00				1	0	0.00			
	Drinking Water	250000.	2	0	0.00	1	0	0.00				1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0056

NPS Station ID: SLBE0056	LAT/LON: 44.718337/ -86.130031	Agency: 11NPSWRD	Date Created: 03/09/96
Location: MUD LAKE		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L19	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 178	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:

Description:
MUD LAKE LIES WITHIN THE PLATTE RIVER WATERSHED. THE OUTFLOW FROM MUD LAKE ENTERS THE PLATTE RIVER DOWNSTREAM OF PLATTE LAKE AND UPSTREAM OF LOON LAKE. THE SITE IS LOCATED IN THE DEEPEST AREA OF MUD LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR.
SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0056

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/04/92	3	20.	20.667	22.	20.	1.333	1.155	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/03/90-08/03/90	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/04/92	3	8.7	8.5	9.4	7.4	1.03	1.015	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	08/03/90-08/04/92	3	8.7	8.7	8.8	8.6	0.01	0.1	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	08/03/90-08/04/92	3	8.7	8.692	8.8	8.6	0.01	0.1	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/03/90-08/04/92	3	0.002	0.002	0.003	0.002	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/03/90-08/04/92	3	128.	120.	132.	100.	304.	17.436	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/03/90-08/04/92	2	0.645	0.645	1.	0.29	0.252	0.502	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	08/03/90-08/04/92	3 ##	0.05	0.22	0.6	0.01	0.109	0.33	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/03/90-08/04/92	3	0.02	0.022	0.042	0.005	0.	0.019	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/90-08/04/92	2	1.35	1.35	1.7	1.	0.245	0.495	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/90-08/04/92	3	1.1	1.133	1.6	0.7	0.203	0.451	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0056

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406 PH, FIELD	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00	2	0	0.00				1	0	0.00
	Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00630	NITRITE PLUS NITRATE, TOTAL I DET.	Drinking Water	10.	3	0	0.00	2	0	0.00							1	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0057

NPS Station ID: SLBE0057 LAT/LON: 44.720003/ -86.136670
 Location: PLATTE RIVER AT WEIR ON LOON LAKE NR HONOR, MICH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 04060104016 RF1 Mile Point: 1.590
 RF3 Index: 04060104001602.02 RF3 Mile Point: 2.32
 Description:

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 04126758
 Within Park Boundary: Yes

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.03

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: SLBE0057

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/14/79-10/28/81	3	11.	12.667	19.	8.	32.333	5.686	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/80-05/15/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/14/79-10/28/81	3	173.	172.	186.	157.	211.	14.526	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/14/79-10/28/81	3	1.6	2.	3.	1.4	0.76	0.872	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/15/80-10/28/81	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/14/79-08/14/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/79-10/28/81	3	290.	303.	330.	289.	547.	23.388	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/14/79-10/28/81	3	10.6	9.9	11.2	7.9	3.09	1.758	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/14/79-10/28/81	3	94.	92.	96.	86.	28.	5.292	**	**	**	**
00400 PH (STANDARD UNITS)	08/14/79-10/28/81	3	8.3	8.267	8.3	8.2	0.003	0.058	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/14/79-10/28/81	3	8.3	8.264	8.3	8.2	0.003	0.058	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/14/79-10/28/81	3	0.005	0.005	0.006	0.005	0.	0.001	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/28/81-10/28/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/28/81-10/28/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/81-10/28/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/14/79-05/15/80	2	1.45	1.45	1.6	1.3	0.045	0.212	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/15/80-05/15/80	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	05/15/80-05/15/80	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/14/79-05/15/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-10/28/81	3	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/14/79-05/15/80	2	0.135	0.135	0.18	0.09	0.004	0.064	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/14/79-10/28/81	3	0.1	0.117	0.2	0.05	0.006	0.076	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/14/79-10/28/81	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/15/80-10/28/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/14/79-10/28/81	3	150.	153.333	160.	150.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/14/79-05/15/80	2	10.5	10.5	21.	0.	220.5	14.849	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/14/79-10/28/81	3	43.	43.	46.	40.	9.	3.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/14/79-10/28/81	3	12.	11.667	12.	11.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	08/14/79-10/28/81	3	4.1	3.933	4.1	3.6	0.083	0.289	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/14/79-10/28/81	3	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
00932 SODIUM, PERCENT	08/14/79-10/28/81	3	5.	5.333	6.	5.	0.333	0.577	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/14/79-10/28/81	3	0.6	0.6	0.7	0.5	0.01	0.1	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/14/79-10/28/81	3	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/14/79-10/28/81	3	11.	11.	11.	11.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/14/79-10/28/81	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/14/79-10/28/81	3	3.1	3.667	5.5	2.4	2.643	1.626	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/14/79-10/28/81	3	1.	1.667	3.	1.	1.333	1.155	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/14/79-10/28/81	3	30.	26.667	30.	20.	33.333	5.774	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/14/79-10/28/81	3	3.	2.	3.	0.	3.	1.732	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/14/79-10/28/81	3 ##	0.5	1.167	3.	0.	2.583	1.607	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/14/79-10/28/81	3	5.	3.667	6.	0.	10.333	3.215	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/14/79-10/28/81	3	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/14/79-10/28/81	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/14/79-10/28/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/14/79-10/28/81	3	3.	4.667	9.	2.	14.333	3.786	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/14/79-10/28/81	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**	**
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/14/79-08/14/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/14/79-10/28/81	3	181.	180.333	181.	179.	1.333	1.155	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/15/80-10/28/81	2	174.	174.	183.	165.	162.	12.728	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/14/79-10/28/81	3	83.6	83.733	90.9	76.7	50.423	7.101	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/14/79-10/28/81	3	0.25	0.247	0.25	0.24	0.	0.006	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/14/79-05/15/80	2	0.6	0.6	0.8	0.4	0.08	0.283	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/14/79-05/15/80	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/14/79-10/28/81	3	0.1	0.15	0.25	0.1	0.008	0.087	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0057

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00						1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	2	0	0.00						1	0	0.00
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00						1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00						1	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	2	0	0.00						1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00						1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00						1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	1	0	0.00	1	0	0.00								
		Drinking Water	200.	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00						1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	50.	3	0	0.00	2	0	0.00						1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00						1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0057

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01025	CADMIUM, DISSOLVED																
	Fresh Acute	3.9	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5.	3	0	0.00	2	0	0.00							1	0	0.00
01030	CHROMIUM, DISSOLVED																
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049	LEAD, DISSOLVED																
	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075	SILVER, DISSOLVED																
	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090	ZINC, DISSOLVED																
	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145	SELENIUM, DISSOLVED																
	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.																
	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED																
	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED																
	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361	DDD IN FILT. FRAC. OF WATER SMAPLE																
	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366	DDE IN FILT. FRAC. OF WATER SAMPLE																
	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371	DDT IN FILT. FRAC. OF WATER SAMPLE																
	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE																
	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE																
	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE																
	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL																
	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER																
	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE																
	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE																
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)																
	Drinking Water	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)																
	Drinking Water	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890	MERCURY, DISSOLVED																
	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0058

NPS Station ID: SLBE0058
 Location: LAKE MICHIGAN OPEN WATER
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: LAKE MICHIGAN
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.725004/ -86.191670

Depth of Water: 177
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 1115GLSB
 FIPS State/County: 26998 MICHIGAN/
 STORET Station ID(s): XIX-09
 Within Park Boundary: No

Date Created: 01/20/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.50
 Distance from RF3: 0.67

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0058

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/77-07/31/77	1	19.1	19.1	19.1	19.1	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/77-07/31/77	1	21.6	21.6	21.6	21.6	0.	0.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	07/31/77-07/31/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00040 WIND DIRECTION, AZIMUTH	07/31/77-07/31/77	1	232.	232.	232.	232.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/31/77-07/31/77	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/31/77-07/31/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/31/77-07/31/77	1	274.	274.	274.	274.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/31/77-07/31/77	1	8.47	8.47	8.47	8.47	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/31/77-07/31/77	1	8.47	8.47	8.47	8.47	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/77-07/31/77	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/31/77-07/31/77	1	108.	108.	108.	108.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	07/31/77-07/31/77	1	35.5	35.5	35.5	35.5	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	07/31/77-07/31/77	1	10.7	10.7	10.7	10.7	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	07/31/77-07/31/77	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	07/31/77-07/31/77	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	07/31/77-07/31/77	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/31/77-07/31/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/31/77-07/31/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	07/31/77-07/31/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	07/31/77-07/31/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS Ni)	07/31/77-07/31/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0058

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00										1	0	0.00
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Drinking Water	1300.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0058

Parameter	Std. Type	Std. Value	Total		Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Exceed Standard		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	1	1.00										1	1	1.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0059

NPS Station ID: SLBE0059

Location: L MICHIGAN, EAST OF PLATTE R; LAKE TWP, SEC 22

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF BENZIE STATE PARK

RF1 Index: 04060104004

RF3 Index: 04060104001600.00

Description:

LAKE MICHIGAN (EAST OF PLATTE RIVER MOUTH) AT BENZIE STATE PARK,

SECTION 22, LAKE TOWNSHIP

BACTERIA INFORMATION IS FOUND HERE.

LAT/LON: 44.727782/ -86.119171

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 19.540

RF3 Mile Point: 0.00

50 FT OFFSHORE 100 FT NORTH OF SOUTH LIMITS, BENZIE COUNTY, T27N, R15W,

GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100012

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	16.5	16.542	25.	9.	14.172	3.765	10.5	14.25	20.	20.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	22.	21.417	29.	14.	22.08	4.699	14.5	18.	25.75	27.5
00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	20.	40.542	100.	0.	1593.824	39.923	0.5	5.	86.25	100.
00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	8.	8.333	20.	3.	21.623	4.65	3.5	4.25	11.75	16.
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29	100.	2829.31	48000.	50.	83561163.793	9141.18	50.	50.	950.	10200.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29	2.	2.423	4.681	1.699	0.739	0.86	1.699	1.699	2.977	4.009
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =											
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	6.897	30.	5.	29.31	5.414	5.	5.	5.	10.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.778	1.477	0.699	0.038	0.195	0.699	0.699	0.699	1.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =											
					5.994								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0059

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	7	0.24	10	4	0.40						19	3	0.16
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	0	0.00	10	0	0.00						19	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0060

NPS Station ID: SLBE0060

Location: L MICHIGAN, EAST OF PLATTE R; LAKE TWP, SEC 23

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF BENZIE STATE PARK

RF1 Index: 04060104004

RF3 Index: 04060104000400.00

Description:

LAKE MICHIGAN (EAST OF PLATTE RIVER MOUTH) AT BENZIE STATE PARK,

SECTION 23, LAKE TOWNSHIP

BACTERIA INFORMATION IS FOUND HERE.

LAT/LON: 44.728059/ -86.118059

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 19.400

RF3 Mile Point: 0.43

50 FT OFFSHORE 400 FT NORTH OF SOUTH LIMITS, BENZIE COUNTY, T27N, R15W,

GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100013

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.29

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0060

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	26	17.	16.904	25.	9.	13.76	3.709	10.85	15.	20.	21.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	25	22.	21.28	29.	14.	21.627	4.65	14.6	18.	25.5	27.4
00032 CLOUD COVER (PERCENT)	06/16/69-06/21/73	25	20.	42.12	100.	0.	1589.693	39.871	0.6	5.	85.	100.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	25	8.	8.2	20.	3.	21.167	4.601	3.6	4.5	11.5	15.6
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	30 ##	150.	1320.	16000.	50.	9677689.655	3110.899	50.	50.	1025.	4630.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-06/21/73	30 ##	2.151	2.371	4.204	1.699	0.617	0.785	1.699	1.699	3.002	3.665
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			235.15								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	5.	6.935	40.	5.	46.129	6.792	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	0.699	0.767	1.602	0.699	0.041	0.201	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.847								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0060

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	30	7	0.23	10	2	0.20							20	5	0.25
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	31	0	0.00	10	0	0.00							21	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0060

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	5.	5.5	10.	5.	2.5	1.581	5.	5.	5.	9.5
31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	0.699	0.729	1.	0.699	0.009	0.095	0.699	0.699	0.699	0.97
31616 GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			5.359								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0060

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	5.	7.619	40.	5.	66.548	8.158	5.	5.	5.	18.
31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	0.699	0.785	1.602	0.699	0.056	0.236	0.699	0.699	0.699	1.241
31616 GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			6.095								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0061

NPS Station ID: SLBE0061 Location: PLATTE RIVER DOWNSTREAM 94 - 95 Station Type: /TYP/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: SITE IS LOCATED UPSTREAM OF THE PARKING LOT AT HE END OF LAKE MICHIGAN ROAD APPROXIMATELY 200 YARDS UPSTREAM OF SITE SLBE S02. THE SITE WAS USED FOR SAMPLING BEGINNING IN 1994. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.729282/ -86.156531 Depth of Water: 0 Elevation: 176 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26019 MICHIGAN/BENZIE STORET Station ID(s): SLBE_S20 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: SLBE0061

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/94-08/10/95	2	24.	24.	26.	22.	8.	2.828	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	06/30/94-08/10/95	2	241.5	241.5	245.	238.	24.5	4.95	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/30/94-08/10/95	2	8.9	8.9	9.7	8.1	1.28	1.131	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	06/30/94-08/10/95	2	7.8	7.8	8.4	7.2	0.72	0.849	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	06/30/94-08/10/95	2	7.474	7.474	8.4	7.2	0.932	0.965	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/94-08/10/95	2	0.034	0.034	0.063	0.004	0.002	0.042	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0061

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00							1	0	0.00
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0062

NPS Station ID: SLBE0062 LAT/LON: 44.730559/ -86.144726

Location: L MICH, NEAR PLATTE R MOUTH; LAKE TWP, SEC 20

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF LAKE TOWNSHIP PARK, 0651

RF1 Index: 04060104004

RF3 Index: 04060104000500.00

Description:

LAKE MICHIGAN (NEAR MOUTH OF PLATTE RIVER) AT LAKE TOWNSHIP PARK, 50 FT OFFSHORE 200 FT WEST OF MOUTH OF PLATTE RIVER, BENZIE COUNTY,

T27N, R15W, SECTION 20, LAKE TOWNSHIP

BACTERIA INFORMATION IS FOUND HERE.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 20.990

RF3 Mile Point: 5.07

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100010

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0062

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	17.	16.979	25.	10.5	13.402	3.661	11.5	14.25	20.	20.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	20.5	20.833	27.	14.	19.623	4.43	14.	18.	24.75	26.5
00032 CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	15.	38.625	100.	0.	1498.853	38.715	1.	5.	75.	100.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	8.	8.25	20.	0.	25.761	5.076	3.5	4.25	10.	18.
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29	100.	451.724	4900.	50.	972764.778	986.288	50.	50.	350.	1100.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29	2.	2.185	3.69	1.699	0.33	0.575	1.699	1.699	2.54	3.041
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			153.009								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	6.724	20.	5.	16.564	4.07	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.782	1.301	0.699	0.032	0.178	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.054								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0062

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	3	0.10	10	2	0.20							19	1	0.05
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	0	0.00	10	0	0.00							19	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0063

NPS Station ID: SLBE0063 LAT/LON: 44.730837/ -86.145559

Location: L MICH, NEAR PLATTE R MOUTH; LAKE TWP, SEC 19

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF LAKE TOWNSHIP PARK 0651

RF1 Index: 04060104004

RF3 Index: 04060104001600.00

Description:

LAKE MICHIGAN (NEAR MOUTH OF PLATTE RIVER) AT LAKE TOWNSHIP PARK, 50 FT OFFSHORE 400 FT WEST OF PLATTE RIVER MOUTH, BENZIE COUNTY, T27N,

R15W, SECTION 19, LAKE TOWNSHIP

BACTERIA INFORMATION IS FOUND HERE.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 20.990

RF3 Mile Point: 0.00

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100011

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0063

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	26	17.	17.269	25.	11.	11.405	3.377	12.	15.	20.	21.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	25	20.	20.72	27.	14.	19.127	4.373	14.	18.	24.5	26.4
00032 CLOUD COVER (PERCENT)	06/16/69-06/21/73	25	20.	40.28	100.	0.	1504.877	38.793	1.2	5.	77.5	100.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	25	8.	8.12	20.	0.	25.11	5.011	3.6	4.5	10.	17.6
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	30 ##	75.	271.667	2000.	50.	224255.747	473.556	50.	50.	325.	680.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-06/21/73	30 ##	1.849	2.082	3.301	1.699	0.246	0.496	1.699	1.699	2.508	2.83
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			120.877								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	5.	7.419	40.	5.	58.118	7.624	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	0.699	0.782	1.602	0.699	0.049	0.222	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.058								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0063

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	30	2	0.07	10	0	0.00							20	2	0.10
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	31	0	0.00	10	0	0.00							21	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	5.	8.5	40.	5.	122.5	11.068	5.	5.	5.	36.5
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	0.699	0.789	1.602	0.699	0.082	0.286	0.699	0.699	0.699	1.512
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			6.156								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	5.	6.905	30.	5.	31.19	5.585	5.	5.	5.	10.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	0.699	0.779	1.477	0.699	0.037	0.193	0.699	0.699	0.699	1.
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			6.012								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0064

NPS Station ID: SLBE0064
 Location: PLATTE RIVER DOWNSTREAM
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.731059/ -86.156255

Depth of Water: 0
 Elevation: 176

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_S02
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED IN A SHALLOW EMBAYMENT ACROSS FROM THE PARKING LOT AT THE END OF LAKE MICHIGAN ROAD JUST BEFORE THE STREAM FLOWS INTO LAKE MICHIGAN. THERE IS NO OVERHANGING VEGETATION AND THE STREAM IS OPEN TO DIRECT SUNLIGHT. THE SUBSTRATE IS SAND WITH SOME FINE GRAVEL. THE SITE WAS USED FOR SAMPLING FROM 1990 THROUGH 1993. SITE IS LOCATED ON THE FRANKFORT MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0064

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/90-08/30/93	29	20.	18.552	25.	7.	25.828	5.082	10.	15.5	22.5	24.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/30/93-08/30/93	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/30/90-08/17/92	25	325.	315.6	350.	275.	413.167	20.327	290.	300.	325.	350.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/30/90-08/30/93	26	9.05	9.258	15.	7.2	2.484	1.576	7.85	8.275	9.525	10.89
00406 PH, FIELD, STANDARD UNITS SU	04/30/90-08/30/93	29	8.4	8.403	8.9	8.	0.064	0.253	8.	8.15	8.6	8.7
00406 CONVERTED PH, FIELD, STANDARD UNITS	04/30/90-08/30/93	29	8.4	8.334	8.9	8.	0.069	0.263	8.	8.15	8.6	8.7
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/90-08/30/93	29	0.004	0.005	0.01	0.001	0.	0.003	0.002	0.003	0.007	0.01
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/30/90-09/21/92	24	140.	139.667	160.	104.	96.58	9.827	130.	138.	144.	149.
00600 NITROGEN, TOTAL (MG/L AS N)	04/30/90-09/21/92	27 ##	0.25	0.307	0.9	0.05	0.033	0.182	0.15	0.2	0.35	0.58
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/90-09/21/92	27	0.4	0.424	1.	0.05	0.037	0.193	0.28	0.3	0.5	0.72
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/30/90-09/21/92	27 ##	0.05	0.062	0.2	0.005	0.003	0.053	0.005	0.05	0.05	0.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/30/90-09/21/92	27 ##	0.005	0.019	0.21	0.001	0.002	0.043	0.002	0.005	0.011	0.049
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	05/29/90-09/19/90	5	67.	76.62	123.8	28.6	1320.292	36.336	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/28/92-09/21/92	6	2.	2.033	3.	1.2	0.443	0.665	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	08/06/90-09/21/92	22	1.1	1.386	5.	0.7	0.767	0.876	0.83	0.975	1.55	1.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0064

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	26	0	0.00	11	0	0.00						15	0	0.00
00406	PH, FIELD	Other-Hi Lim.	9.	29	0	0.00	14	0	0.00						15	0	0.00
		Other-Lo Lim.	6.5	29	0	0.00	14	0	0.00						15	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	27	0	0.00	13	0	0.00						14	0	0.00
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	22	0	0.00	13	0	0.00						9	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0065

NPS Station ID: SLBE0065
 Location: DEER LAKE
 Station Type: /TYP/A/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.731142/ -86.064699

Depth of Water: 0
 Elevation: 180

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_L04
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

DEER LAKE LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS UPSTREAM OF BASS LAKE (BENZ.) AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF DEER LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	75	14.	15.38	27.	9.	28.695	5.357	9.8	10.	20.	23.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/25/93-08/09/95	38	28.	29.184	32.	27.	5.452	2.335	27.	27.	32.	32.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-08/09/95	6	3.7	3.833	4.6	3.3	0.279	0.528	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	2	256.5	256.5	289.	224.	2112.5	45.962	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	75	5.8	5.72	11.8	0.2	12.41	3.523	0.8	2.5	8.8	10.2
00406 PH, FIELD, STANDARD UNITS SU	07/27/90-08/09/95	10	8.1	8.101	8.5	7.5	0.099	0.314	7.53	7.875	8.383	8.495
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/27/90-08/09/95	10	8.1	7.991	8.5	7.5	0.112	0.335	7.53	7.875	8.382	8.495
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/90-08/09/95	10	0.008	0.01	0.032	0.003	0.	0.009	0.003	0.004	0.013	0.03
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/90-08/04/92	6	163.	158.5	170.	141.	148.7	12.194	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-08/04/92	6	0.23	0.26	0.4	0.2	0.006	0.078	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	07/27/90-08/04/92	6 ##	0.025	0.028	0.05	0.01	0.	0.018	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-08/09/95	8 ##	0.005	0.018	0.1	0.002	0.001	0.033	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/20/94	11	3.	2.845	3.3	1.4	0.339	0.582	1.6	2.5	3.3	3.3
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/27/90-08/04/92	6	1.05	1.083	1.7	0.6	0.142	0.376	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0065

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	75	30	0.40	38	11	0.29							37	19	0.51
00406	PH, FIELD																
	Other-Hi Lim.	9.	10	0	0.00	5	0	0.00							5	0	0.00
	Other-Lo Lim.	6.5	10	0	0.00	5	0	0.00							5	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.																
	Drinking Water	10.	6	0	0.00	2	0	0.00							4	0	0.00
82078	TURBIDITY, FIELD																
	Other-Hi Lim.	50.	6	0	0.00	2	0	0.00							4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	14	10.75	13.179	23.	9.	23.87	4.886	9.	9.	16.625	22.5
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	14	2.75	3.979	9.5	0.4	12.759	3.572	0.4	0.925	9.025	9.3

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	8	14.5	14.75	20.	10.	21.929	4.683	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	8	4.55	4.375	8.5	0.2	14.422	3.798	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	15	14.5	15.367	22.	9.5	24.552	4.955	9.5	10.	21.	21.7
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	15	5.3	4.96	7.9	1.	7.277	2.698	1.12	2.	7.6	7.84

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	15	14.	15.867	27.	9.5	36.302	6.025	9.8	10.	22.	25.2
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	15	8.8	8.067	11.8	3.2	8.164	2.857	3.44	5.8	10.2	11.56

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	15	14.5	15.833	24.	10.	29.667	5.447	10.	10.5	21.	23.7
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	15	5.6	6.553	10.7	0.8	13.03	3.61	1.52	3.4	10.1	10.7

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station SLBE0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	8	18.	18.125	25.5	11.	36.339	6.028	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	8	6.45	5.575	10.	0.8	13.448	3.667	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0066

NPS Station ID: SLBE0066

Location: DEER LAKE NUTRIENT & CHLOROPHYLL A

Station Type: /TYP/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

DEER LAKE LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS UPSTREAM OF BASS LAKE (BENZ.) AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE WAS USED FOR NUTRIENT AND CHLOROPHYLL A SAMPLING IN 1994. IT IS LOCATED ALONG THE EASTERN SHORELINE JUST SOUTH OF WHERE OTTER CREEK LEAVES DEER LAKE. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.731504/ -86.063559

Depth of Water: 0

Elevation: 180

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_L27

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0066

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.029	0.029	0.029	0.029	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0066

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0067

NPS Station ID: SLBE0067
 Location: BASS LAKE (BENZ.)
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.733365/ -86.063393

Depth of Water: 0
 Elevation: 179

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_L03
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

BASS LAKE (BENZ.) LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS DOWNSTREAM OF DEER LAKE AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF BASS LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	84	22.	20.857	26.5	13.	12.076	3.475	15.	18.	23.5	24.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/25/93-08/09/95	43	29.	30.186	34.	27.	10.298	3.209	27.	27.	34.	34.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-08/09/95	6	4.	3.817	4.5	2.6	0.522	0.722	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	2	258.	258.	298.	218.	3200.	56.569	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	84	8.8	8.49	17.2	0.4	13.731	3.706	2.8	6.675	9.9	14.25
00406 PH, FIELD, STANDARD UNITS SU	07/27/90-08/09/95	10	8.44	8.438	8.7	8.2	0.046	0.215	8.2	8.2	8.625	8.7
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/27/90-08/09/95	10	8.418	8.392	8.7	8.2	0.049	0.221	8.2	8.2	8.625	8.7
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/90-08/09/95	10	0.004	0.004	0.006	0.002	0.	0.002	0.002	0.002	0.006	0.006
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/90-08/06/92	6	143.	144.333	162.	136.	85.467	9.245	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-08/06/92	6	0.3	0.28	0.5	0.085	0.027	0.165	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	07/27/90-08/06/92	6 ##	0.025	0.028	0.05	0.01	0.	0.018	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-08/09/95	8 ##	0.01	0.015	0.05	0.002	0.	0.016	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/20/94	9	3.3	2.789	4.1	0.9	1.339	1.157	0.9	1.65	3.45	4.1
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/27/90-08/06/92	6	0.95	0.933	1.1	0.7	0.035	0.186	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0067

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	84	11	0.13	43	6	0.14							41	5	0.12
00406	PH, FIELD														5	0	0.00
	Other-Hi Lim.	9.	10	0	0.00	5	0	0.00									
	Other-Lo Lim.	6.5	10	0	0.00	5	0	0.00							5	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.																
	Drinking Water	10.	6	0	0.00	2	0	0.00							4	0	0.00
82078	TURBIDITY, FIELD														4	0	0.00
	Other-Hi Lim.	50.	6	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	14	21.5	20.643	24.	15.	10.44	3.231	15.25	17.625	23.25	24.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	14	9.25	8.1	12.	0.4	15.825	3.978	0.45	7.15	10.6	12.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	10	22.	19.6	22.	14.	10.711	3.273	14.1	16.5	22.	22.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	10	9.35	10.24	17.2	0.8	19.907	4.462	1.64	9.2	12.875	17.09

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	17	22.	20.176	22.5	14.	8.654	2.942	14.4	18.	22.	22.5
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	17	7.6	7.453	10.2	2.	2.801	1.674	5.2	7.2	8.	9.24

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	17	23.	21.765	26.	15.	11.316	3.364	15.8	19.5	24.25	25.2
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	17	5.	5.353	8.8	2.4	4.066	2.017	2.56	3.95	6.9	8.64

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	17	22.5	20.324	24.	13.	16.061	4.008	13.8	16.5	23.5	24.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	17	9.9	10.771	16.3	1.1	14.228	3.772	5.42	9.55	13.75	16.22

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

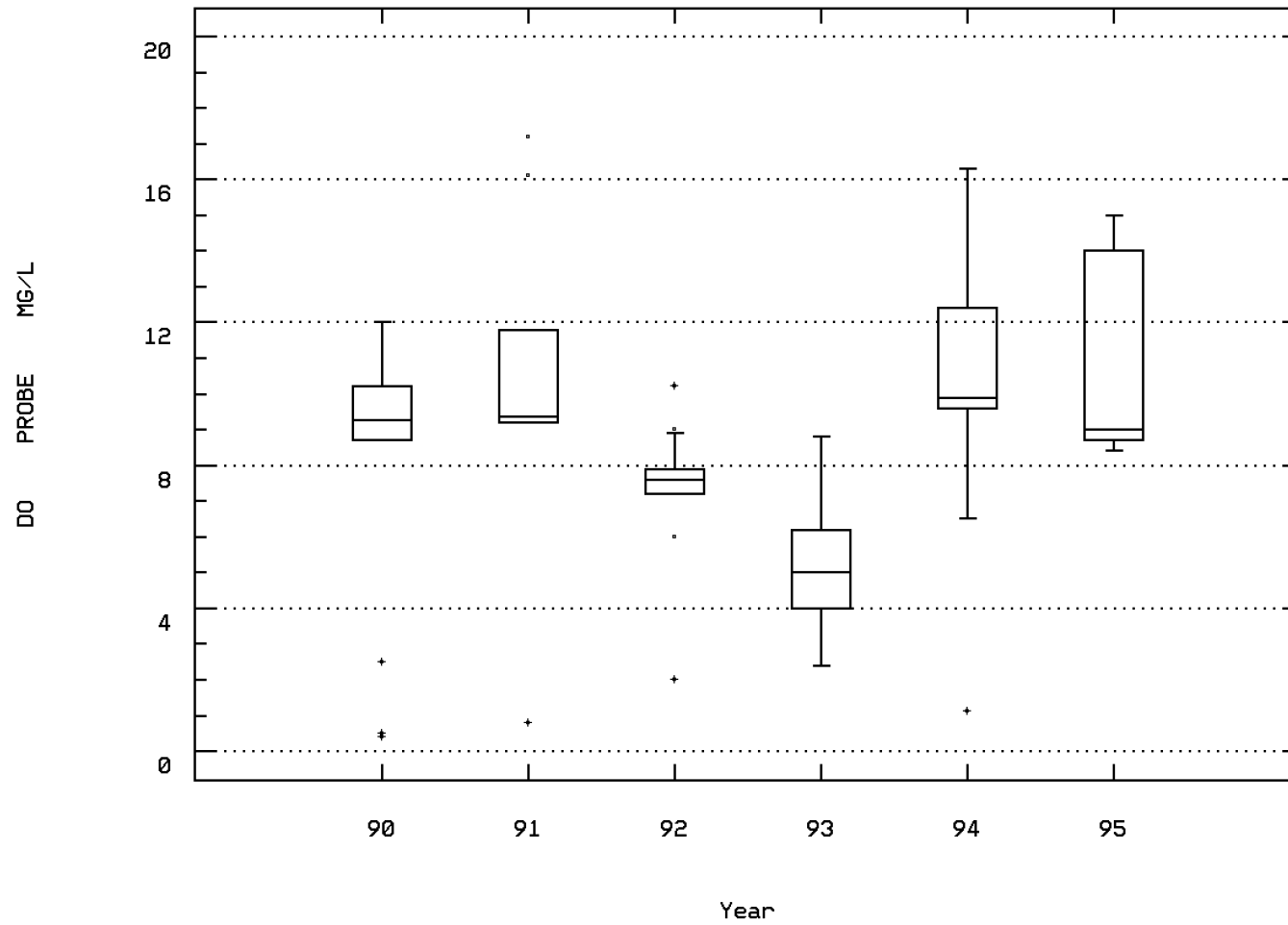
Annual Analysis for 1995 - Station SLBE0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	9	25.	23.167	26.5	17.5	12.813	3.579	17.5	19.5	26.	26.5
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	9	9.	10.733	15.	8.4	8.153	2.855	8.4	8.65	14.25	15.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0067 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



BASS LAKE (BENZ.)

Station Inventory for Station: SLBE0068

NPS Station ID: SLBE0068

Location: BASS LAKE (BENZ.) NUTRNT & CHLRPHYLL A

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MICHIGAN

Minor Basin: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

BASS LAKE (BENZ.) LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS DOWNSTREAM OF DEER LAKE AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE WAS USED FOR NUTRIENT AND CHLOROPHYLL A SAMPLING IN 1994. IT IS LOCATED ALONG THE NORTHERN SHORELINE JUST WEST OF WHERE OTTER CREEK LEAVES BASS LAKE. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

LAT/LON: 44.735838/ -86.065142

Depth of Water: 0

Elevation: 179

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Agency: 11NPSWRD

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): SLBE_L26

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0068

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0069

NPS Station ID: SLBE0069	LAT/LON: 44.738003/ -86.061281	Agency: 11NPSWRD	Date Created: 03/09/96
Location: OTTER LAKE CHLOROPHYLL A		FIPS State/County: 26019 MICHIGAN/BENZIE	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L25	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 179	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description: OTTER LAKE LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS DOWNSTREAM OF BASS LAKE (BENZ.) AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE WAS USED FOR CHLOROPHYLL A SAMPLING IN 1994. IT IS LOCATED ALONG THE SOUTHERN SHORELINE JUST EAST OF WHERE OTTER CREEK ENTERS OTTER LAKE. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0069

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot												

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: SLBE0070

NPS Station ID: SLBE0070
 Location: OTTER LAKE
 Station Type: /TYP/A/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.738642/ -86.059421

Depth of Water: 0
 Elevation: 179

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_L02
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

OTTER LAKE LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS DOWNSTREAM OF BASS LAKE (BENZ.) AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF OTTER LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	77	23.	23.058	26.	19.	1.862	1.364	21.9	22.	24.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/19/93-08/09/95	40	27.	26.825	28.	26.	0.558	0.747	26.	26.	27.	28.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-08/09/95	6	3.05	3.15	3.7	2.7	0.231	0.481	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/20/94-08/09/95	2	249.5	249.5	289.	210.	3120.5	55.861	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	77	8.2	7.279	10.2	0.1	6.438	2.537	2.88	6.4	9.05	9.6
00406 PH, FIELD, STANDARD UNITS SU	07/27/90-08/09/95	10	8.5	8.439	8.8	7.9	0.066	0.257	7.92	8.325	8.56	8.779
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/27/90-08/09/95	10	8.5	8.359	8.8	7.9	0.073	0.271	7.92	8.325	8.56	8.779
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/90-08/09/95	10	0.003	0.004	0.013	0.002	0.	0.003	0.002	0.003	0.005	0.012
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/90-08/04/92	6	138.	137.667	142.	132.	23.067	4.803	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-08/04/92	6	0.3	0.333	0.51	0.29	0.008	0.087	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	07/27/90-08/04/92	6 ##	0.073	0.073	0.1	0.045	0.001	0.03	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-08/09/95	8 ##	0.003	0.009	0.05	0.001	0.	0.017	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/20/94	11	2.4	2.518	3.5	1.	0.952	0.976	1.02	1.5	3.5	3.5
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/27/90-08/04/92	6	1.25	1.233	1.5	0.9	0.071	0.266	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0070

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	77	12	0.16	40	9	0.23							37	3	0.08
00406	PH, FIELD																
	Other-Hi Lim.	9.	10	0	0.00	5	0	0.00							5	0	0.00
	Other-Lo Lim.	6.5	10	0	0.00	5	0	0.00							5	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.																
	Drinking Water	10.	6	0	0.00	2	0	0.00							4	0	0.00
82078	TURBIDITY, FIELD																
	Other-Hi Lim.	50.	6	0	0.00	2	0	0.00							4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	14	23.	23.	24.	21.5	0.808	0.899	21.75	22.	24.	24.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	14	9.45	8.436	10.1	3.7	3.696	1.923	4.65	7.	9.6	9.9

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	8	23.	22.75	23.	22.	0.214	0.463	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	8	8.3	7.375	8.5	1.3	6.102	2.47	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	15	22.	21.7	22.	19.	0.636	0.797	20.2	22.	22.	22.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	15	7.9	7.02	8.4	0.7	4.815	2.194	2.08	7.3	8.2	8.34

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	17	24.	23.529	25.	22.	1.765	1.328	22.	22.	25.	25.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	17	6.2	5.953	10.2	2.	6.668	2.582	2.16	3.8	8.2	9.72

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	15	23.5	22.967	24.	21.	1.052	1.026	21.3	22.	24.	24.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	15	9.1	8.087	9.5	0.1	6.463	2.542	3.16	8.3	9.4	9.44

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station SLBE0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-08/09/95	8	25.75	25.188	26.	23.	1.281	1.132	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-08/09/95	8	8.6	6.95	9.	0.4	10.511	3.242	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0071

NPS Station ID: SLBE0071 Location: OTTER LAKE NUTRIENT Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: OTTER LAKE LIES WITHIN THE OTTER CREEK WATERSHED WHICH IS PRINCIPALLY FED BY GROUNDWATER. IT IS DOWNSTREAM OF BASS LAKE (BENZ.) AND ALONG OTTER CREEK. SURFACE WATER FLOWS FROM DEER LAKE THROUGH BASS LAKE THROUGH OTTER LAKE AND INTO OTTER CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ALONG THE SOUTHEASTERN SHORELINE OF THE LAKE. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.740865/ -86.057116 Depth of Water: 0 Elevation: 179 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26019 MICHIGAN/BENZIE STORET Station ID(s): SLBE_L24 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76
		Date Created: 03/09/96 On/Off RF1: On/Off RF3:

Parameter Inventory for Station: SLBE0071

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.131	0.131	0.131	0.131	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0071

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0072

NPS Station ID: SLBE0072 LAT/LON: 44.741670/ -86.061115
 Location: OTTER CREEK AT OTTER LAKE NEAR EMPIRE MI
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 04060104 RF1 Mile Point: 0.000
 RF3 Index: 04060104000400.00 RF3 Mile Point: 1.79
 Description:

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 04126765
 Within Park Boundary: Yes

Date Created: 05/24/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.10

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0072

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/26/81	3	12.	13.167	18.	9.5	19.083	4.368	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/13/80-05/13/80	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/15/79-10/26/81	3	4.	4.333	6.	3.	2.333	1.528	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/79-10/26/81	3	1.3	2.433	5.	1.	4.963	2.228	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/13/80-10/26/81	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/15/79-08/15/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/79-10/26/81	3	293.	297.667	320.	280.	416.333	20.404	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/15/79-10/26/81	3	10.2	9.867	10.8	8.6	1.293	1.137	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/15/79-10/26/81	3	92.	94.667	102.	90.	41.333	6.429	**	**	**	**
00400 PH (STANDARD UNITS)	08/15/79-10/26/81	3	8.2	8.233	8.3	8.2	0.003	0.058	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/15/79-10/26/81	3	8.2	8.231	8.3	8.2	0.003	0.058	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/79-10/26/81	3	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/26/81-10/26/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/26/81-10/26/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/26/81-10/26/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/15/79-05/13/80	2	1.85	1.85	2.	1.7	0.045	0.212	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/15/79-05/13/80	2	149.	149.	160.	138.	242.	15.556	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/15/79-05/13/80	2	184.	184.	200.	168.	512.	22.627	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/15/79-05/13/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-10/26/81	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-05/13/80	2	0.31	0.31	0.43	0.19	0.029	0.17	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/79-10/26/81	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/15/79-10/26/81	3	0.005	0.005	0.01	0.	0.	0.005	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/13/80-10/26/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/15/79-10/26/81	3	150.	150.	160.	140.	100.	10.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/15/79-05/13/80	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/15/79-10/26/81	3	40.	40.667	44.	38.	9.333	3.055	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/79-10/26/81	3	12.	12.	13.	11.	1.	1.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	08/15/79-10/26/81	3	2.2	2.233	2.7	1.8	0.203	0.451	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/15/79-10/26/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/15/79-10/26/81	3	3.	3.333	4.	3.	0.333	0.577	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	08/15/79-08/15/79	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/15/79-10/26/81	3	0.6	0.6	0.7	0.5	0.01	0.1	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/15/79-10/26/81	3	3.	3.333	4.	3.	0.333	0.577	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/15/79-10/26/81	3	11.	9.667	11.	7.	5.333	2.309	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/15/79-10/26/81	3	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/15/79-10/26/81	3	6.7	6.733	7.4	6.1	0.423	0.651	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/15/79-10/26/81	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/15/79-10/26/81	3	20.	23.333	30.	20.	33.333	5.774	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/15/79-10/26/81	3 ##	0.5	1.167	3.	0.	2.583	1.607	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/15/79-10/26/81	3 ##	1.	1.5	3.	0.5	1.75	1.323	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/15/79-10/26/81	3	5.	5.	9.	1.	16.	4.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/15/79-10/26/81	3	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/79-10/26/81	3	2.	2.667	5.	1.	4.333	2.082	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/15/79-10/26/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/15/79-10/26/81	3 ##	2.	3.667	9.	0.	22.333	4.726	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/15/79-10/26/81	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/15/79-10/26/81	3	168.	168.333	173.	164.	20.333	4.509	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/15/79-10/26/81	3	159.	165.	180.	156.	171.	13.077	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/15/79-10/26/81	3	1.75	2.043	2.87	1.51	0.527	0.726	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/79-10/26/81	3	0.23	0.23	0.24	0.22	0.	0.01	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/79-05/13/80	2	1.35	1.35	1.9	0.8	0.605	0.778	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/15/79-05/13/80	2	0.015	0.015	0.03	0.	0.	0.021	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/15/79-10/26/81	3 ##	0.1	0.133	0.25	0.05	0.011	0.104	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0072

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00						1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	2	0	0.00						1	0	0.00
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00						1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00						1	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	2	0	0.00						1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00						1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00						1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	1	0	0.00	1	0	0.00								
		Drinking Water	200.	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00						1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	50.	3	0	0.00	2	0	0.00						1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00						1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	5.	3	0	0.00	2	0	0.00						1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0072

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0073

NPS Station ID: SLBE0073
 Location: OTTER CREEK UPSTREAM
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.741948/ -86.061281

Depth of Water: 0
 Elevation: 179

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_S05
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED APPROXIMATELY 250 YARDS DOWNSTREAM FROM THE OUTLET OF OTTER LAKE. THE STREAM AT THIS POINT IS APPROXIMATELY 3 METERS WIDE WITH DEPTHS OF UP TO 0.3 METERS. THE RIPARIAN VEGETATION IS DOMINATED BY CEDARS THAT SHADE MOST OF THE STREAM. THERE WERE NO SPRINGS LOCATED ABOVE THIS SITE. THE SUBSTRATE IS PRIMARILY SAND. SITE IS LOCATED ON THE BEULAH MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0073

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/90-08/10/95	30	20.	19.15	28.	8.	24.503	4.95	10.3	15.75	23.	24.9
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-08/10/95	28	306.5	304.679	350.	222.	1101.337	33.186	248.6	281.25	325.	350.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/01/90-08/10/95	27	8.7	8.678	10.4	7.6	0.603	0.776	7.78	8.	9.2	10.04
00406 PH, FIELD, STANDARD UNITS SU	04/24/90-08/10/95	31	8.2	8.216	8.6	7.3	0.069	0.263	7.92	8.1	8.4	8.5
00406 CONVERTED PH, FIELD, STANDARD UNITS	04/24/90-08/10/95	31	8.2	8.113	8.6	7.3	0.08	0.283	7.92	8.1	8.4	8.5
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/90-08/10/95	31	0.006	0.008	0.05	0.003	0.	0.008	0.003	0.004	0.008	0.012
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/01/90-09/23/92	24	142.	142.333	154.	134.	45.101	6.716	134.	136.	148.	154.
00600 NITROGEN, TOTAL (MG/L AS N)	05/01/90-09/23/92	27	0.5	0.48	1.1	0.05	0.071	0.266	0.19	0.25	0.7	0.9
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/01/90-09/23/92	27	0.4	0.339	0.6	0.05	0.02	0.143	0.1	0.3	0.4	0.52
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/01/90-09/23/92	27	0.2	0.202	0.7	0.005	0.025	0.157	0.041	0.05	0.3	0.4
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/90-09/23/92	27 ##	0.005	0.006	0.03	0.002	0.	0.006	0.003	0.003	0.005	0.012
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	05/30/90-09/18/90	6	49.45	61.933	138.5	23.6	1866.147	43.199	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/24/90-04/24/90	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	04/24/90-04/24/90	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	12/03/90-12/03/90	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS Mg)	04/24/90-04/24/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS Mg)	12/03/90-12/03/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	04/24/90-04/24/90	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	04/24/90-04/24/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	04/24/90-04/24/90	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL (MG/L AS K)	12/03/90-12/03/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-11/05/91	4	10.5	10.925	14.	8.7	5.089	2.256	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/03/90	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0073

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955 SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/03/90	2	7.1	7.1	7.9	6.3	1.28	1.131	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035 COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	12/03/90-11/05/91	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	12/03/90-12/03/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01062 MOLYBDENUM, TOTAL (UG/L AS MO)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	1	62.	62.	62.	62.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	12/03/90-11/05/91	3 ##	5.	13.333	30.	5.	208.333	14.434	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/13/90-09/23/92	24	1.05	1.1	1.8	0.4	0.156	0.395	0.55	0.825	1.475	1.65
71890 MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	12/03/90-12/03/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/07/90-09/23/92	22	1.1	1.191	2.5	0.4	0.279	0.528	0.49	0.8	1.45	2.05
82295 CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-11/05/91	4	4.25	4.25	4.8	3.7	0.243	0.493	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0073

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	27	0	0.00	11	0	0.00							16	0	0.00
00406 PH, FIELD	Other-Hi Lim.	9.	31	0	0.00	14	0	0.00							17	0	0.00
	Other-Lo Lim.	6.5	31	0	0.00	14	0	0.00							17	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	27	0	0.00	13	0	0.00							14	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00							1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00				1	0	0.00	1	0	0.00	1	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00										1	0	0.00
01010 BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00				1	0	0.00						
	Drinking Water	4.	0 &	0	0.00												
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0073

Parameter	Std. Type	Std. Value	Total			8/01-11/30			12/01-2/29			3/01-4/14			4/15-7/31		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Fresh Acute 3.9	1	0	0.00				1	0	0.00						
		Drinking Water 5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water 100.	1	0	0.00										1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water 100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute 18.	1	0	0.00										1	0	0.00
		Drinking Water 1300.	1	0	0.00										1	0	0.00
01042	COPPER, TOTAL	Fresh Acute 18.	1	0	0.00				1	0	0.00						
		Drinking Water 1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute 82.	1	0	0.00										1	0	0.00
		Drinking Water 15.	1	0	0.00										1	0	0.00
01051	LEAD, TOTAL	Fresh Acute 82.	1	0	0.00				1	0	0.00						
		Drinking Water 15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute 1400.	1	0	0.00										1	0	0.00
		Drinking Water 100.	1	0	0.00										1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute 1400.	1	0	0.00				1	0	0.00						
		Drinking Water 100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute 4.1	1	0	0.00										1	0	0.00
		Drinking Water 100.	1	0	0.00										1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute 120.	1	0	0.00										1	0	0.00
		Drinking Water 5000.	1	0	0.00										1	0	0.00
01092	ZINC, TOTAL	Fresh Acute 120.	1	0	0.00				1	0	0.00						
		Drinking Water 5000.	1	0	0.00				1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute 20.	1	0	0.00				1	0	0.00						
		Drinking Water 50.	1	0	0.00				1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute 2.4	1	0	0.00										1	0	0.00
		Drinking Water 2.	1	0	0.00										1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute 2.4	1	0	0.00				1	0	0.00						
		Drinking Water 2.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim. 50.	22	0	0.00	13	0	0.00							9	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute 860000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water 250000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0074

NPS Station ID: SLBE0074
 Location: OTTER CREEK MIDSTREAM
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.750531/ -86.061392

Depth of Water: 0
 Elevation: 178

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): SLBE_S04
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED AT INTERSECTION OF AN OLD FENCE LINE OFF SOUTH ARAL ROAD AND OTTER CREEK. THE STREAM IS SOMEWHAT SHADED BY RIPARIAN VEGETATION. IN THE MAIN CHANNEL SUBSTRATES WERE GENERALLY COMPRISED OF FINE SAND AND MARL. NUMEROUS SPRINGS LINE THIS REACH OF THE STREAM. SITE IS LOCATED ON THE EMPIRE MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0074

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/94-08/10/95	2	21.5	21.5	22.	21.	0.5	0.707	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/08/94-08/10/95	2	237.5	237.5	261.	214.	1104.5	33.234	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/94-08/10/95	2	9.85	9.85	11.3	8.4	4.205	2.051	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	07/08/94-08/10/95	2	7.95	7.95	8.5	7.4	0.605	0.778	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/08/94-08/10/95	2	7.668	7.668	8.5	7.4	0.764	0.874	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/94-08/10/95	2	0.021	0.021	0.04	0.003	0.001	0.026	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0074

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0075

NPS Station ID: SLBE0075 LAT/LON: 44.756948/ -86.061115
 Location: 27N 15W 12ACAD01 BENZIE SPRING TO OTTER CREEK
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 04060104 RF1 Mile Point: 0.000
 RF3 Index: 04060104038101.94 RF3 Mile Point: 2.10
 Description:

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 444525086034001
 Within Park Boundary: Yes

Date Created: 02/23/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 14.70
 Distance from RF3: 0.02

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0075

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/26/79-09/26/79	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	09/26/79-09/26/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/26/79-09/26/79	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/26/79-09/26/79	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	09/26/79-09/26/79	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	09/26/79-09/26/79	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/26/79-09/26/79	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	09/26/79-09/26/79	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	09/26/79-09/26/79	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	09/26/79-09/26/79	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/26/79-09/26/79	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/26/79-09/26/79	1	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/26/79-09/26/79	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	09/26/79-09/26/79	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	09/26/79-09/26/79	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	09/26/79-09/26/79	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	09/26/79-09/26/79	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	09/26/79-09/26/79	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	09/26/79-09/26/79	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	09/26/79-09/26/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	09/26/79-09/26/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	09/26/79-09/26/79	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	09/26/79-09/26/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	09/26/79-09/26/79	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	09/26/79-09/26/79	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	09/26/79-09/26/79	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	09/26/79-09/26/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	09/26/79-09/26/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	09/26/79-09/26/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	09/26/79-09/26/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	09/26/79-09/26/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	09/26/79-09/26/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	09/26/79-09/26/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	09/26/79-09/26/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0075

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/26/79-09/26/79	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/26/79-09/26/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/26/79-09/26/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/26/79-09/26/79	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =		0.5									
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/26/79-09/26/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/26/79-09/26/79	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =		0.5									
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/26/79-09/26/79	1	197.	197.	197.	197.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/26/79-09/26/79	1	203.	203.	203.	203.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/26/79-09/26/79	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/26/79-09/26/79	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	09/26/79-09/26/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/26/79-09/26/79	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0075

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	4.	1	1	1.00	1	1	1.00									
00400	PH	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	1	0	0.00	1	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	10.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	1	0	0.00	1	0	0.00									
00720	CYANIDE, TOTAL	0.022	1	0	0.00	1	0	0.00									
	Fresh Acute	0.2	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	4.	1	0	0.00	1	0	0.00									
01000	ARSENIC, DISSOLVED	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	3.9	1	0	0.00	1	0	0.00									
	Fresh Acute	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	100.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	4.1	1	0	0.00	1	0	0.00									
	Fresh Acute	100.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0075

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
31625 FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRLN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRLN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	1	0	0.00	1	0	0.00									
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0076

NPS Station ID: SLBE0076

Location: L MICHIGAN, EAST OF PLATTE R; LAKE TWP, SEC 14

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF BENZIE STATE PARK

RF1 Index: 04060104004

RF3 Index: 04060104000400.00

Description:

LAKE MICHIGAN (EAST OF PLATTE RIVER MOUTH) AT BENZIE STATE PARK,

14, LAKE TOWNSHIP

BACTERIA INFORMATION IS FOUND HERE.

LAT/LON: 44.760837/ -86.079170

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 16.230

RF3 Mile Point: 0.43

50 FT OFFSHORE AT END OF ESCH ROAD, BENZIE COUNTY, T27N, R15W, SECTION

GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL

Agency: 21MICH

FIPS State/County: 26019 MICHIGAN/BENZIE

STORET Station ID(s): 100014

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.34

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	18.	17.5	25.	9.	11.37	3.372	12.5	15.25	20.	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	22.5	21.25	27.	14.	16.37	4.046	14.5	17.25	24.	26.
00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	30.	41.583	100.	0.	1599.123	39.989	0.5	5.	90.	100.
00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	6.5	7.875	20.	2.	20.114	4.485	3.5	5.	10.	16.
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29	100.	846.552	5200.	50.	2057309.113	1434.332	50.	50.	950.	3600.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29	2.	2.371	3.716	1.699	0.499	0.706	1.699	1.699	2.972	3.556
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			234.899								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	15.69	230.	5.	1849.507	43.006	5.	5.	5.	20.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.827	2.362	0.699	0.145	0.381	0.699	0.699	0.699	1.301
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.714								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0076

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	7	0.24	10	2	0.20						19	5	0.26
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	1	0.03	10	0	0.00						19	1	0.05

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0077

NPS Station ID: SLBE0077
 Location: OTTER CREEK AT ARAL ROAD NR EMPIRE, MICHIGAN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104004
 RF3 Index: 04060104001600.77
 Description:

LAT/LON: 44.761670/ -86.073892

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 16.140
 RF3 Mile Point: 1.08

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 04126767
 Within Park Boundary: Yes

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.02

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: SLBE0077

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/12/70-10/27/81	5	15.	13.5	18.	4.5	31.5	5.612	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/12/70-05/12/80	2	15.	15.	15.	15.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	05/12/70-10/27/81	5	16.	13.6	21.	0.	63.3	7.956	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/79-10/27/81	4	1.25	1.75	4.	0.5	2.417	1.555	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/12/80-10/27/81	2	2.	2.	4.	0.	8.	2.828	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/15/79-08/15/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/79-10/27/81	4	336.5	337.	345.	330.	39.333	6.272	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/15/79-10/27/81	4	9.1	8.675	9.6	6.9	1.456	1.207	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/15/79-10/27/81	4	82.5	82.	98.	65.	230.	15.166	**	**	**	**
00400 PH (STANDARD UNITS)	08/15/79-10/27/81	4	7.75	7.8	8.1	7.6	0.06	0.245	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/15/79-10/27/81	4	7.725	7.752	8.1	7.6	0.063	0.251	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/79-10/27/81	4	0.019	0.018	0.025	0.008	0.	0.009	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/27/81-10/27/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/81-10/27/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/15/79-05/12/80	3	8.4	6.4	8.4	2.4	12.	3.464	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/15/79-05/12/80	3	171.	167.667	172.	160.	44.333	6.658	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/15/79-05/12/80	3	208.	202.667	210.	190.	121.333	11.015	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/15/79-05/12/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-10/27/81	4 ##	0.005	0.006	0.01	0.005	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-05/12/80	3	0.38	0.337	0.62	0.01	0.094	0.307	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/79-10/27/81	4	0.5	0.453	0.8	0.01	0.114	0.337	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/15/79-10/27/81	3	0.01	0.015	0.03	0.005	0.	0.013	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/12/80-10/27/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/15/79-10/27/81	4	175.	177.5	190.	170.	91.667	9.574	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/15/79-05/12/80	3	5.	6.667	14.	1.	44.333	6.658	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/15/79-10/27/81	4	48.5	48.	50.	45.	4.667	2.16	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/79-10/27/81	4	13.5	13.75	15.	13.	0.917	0.957	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/15/79-10/27/81	4	2.8	2.825	3.5	2.2	0.289	0.538	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/15/79-10/27/81	4	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/15/79-10/27/81	4	3.5	3.5	4.	3.	0.333	0.577	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/15/79-10/27/81	4	0.55	0.5	0.6	0.3	0.02	0.141	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/15/79-10/27/81	4	3.	3.	3.	3.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/15/79-10/27/81	4	14.5	14.25	16.	12.	2.917	1.708	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/15/79-10/27/81	4	0.25	0.25	0.3	0.2	0.003	0.058	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/15/79-10/27/81	4	7.1	7.55	9.1	6.9	1.083	1.041	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/15/79-10/27/81	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/15/79-10/27/81	3	30.	33.333	40.	30.	33.333	5.774	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/15/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/15/79-10/27/81	3 ##	0.5	1.5	4.	0.	4.75	2.179	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/15/79-10/27/81	4	8.5	15.5	40.	5.	271.	16.462	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/15/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/79-10/27/81	4	3.5	3.75	5.	3.	0.917	0.957	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/15/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/15/79-10/27/81	3	3.	4.333	8.	2.	10.333	3.215	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/15/79-10/27/81	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/15/79-08/15/79	1	108.	108.	108.	108.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/15/79-08/15/79	1	2.033	2.033	2.033	2.033	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			108.								
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/15/79-10/27/81	4	198.5	198.25	206.	190.	44.25	6.652	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/15/79-10/27/81	4	193.5	191.75	196.	184.	28.25	5.315	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/15/79-10/27/81	4	8.23	6.915	11.2	0.	23.234	4.82	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/79-10/27/81	4	0.27	0.27	0.28	0.26	0.	0.008	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/79-05/12/80	3	1.7	1.48	2.7	0.04	1.805	1.344	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/15/79-05/12/80	3	0.	0.01	0.03	0.	0.	0.017	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/15/79-10/27/81	3 ##	0.1	0.133	0.25	0.05	0.011	0.104	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0077

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	0	0.00	3	0	0.00						1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	3	0	0.00						1	0	0.00
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00						1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00						1	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	4	0	0.00	3	0	0.00						1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	3	0	0.00	2	0	0.00						1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00						1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	1	0	0.00	1	0	0.00								
		Drinking Water	200.	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	3	0	0.00						1	0	0.00
		Drinking Water	250.	4	0	0.00	3	0	0.00						1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00						1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	0	0.00	3	0	0.00						1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0077

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5.	3	0	0.00	2	0	0.00							1	0	0.00
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
31625 FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRLN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	3	0	0.00	2	0	0.00							1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	3	0	0.00	2	0	0.00							1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0078

NPS Station ID: SLBE0078 Location: OTTER CREEK DOWNSTREAM Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: SITE IS LOCATED DOWNSTREAM OF THE BEACH ACCESS ROAD OFF ESCH ROAD. AT THIS POINT THE STREAM IS 7 METERS WIDE AND DEPTHS UP TO 0.5 METERS. THE RIPARIAN VEGETATION IN SOME SPOTS SHADES UP TO APPROXIMATELY 75% OF THE STREAM CHANNEL. SUBSTRATES WERE COMPRISED OF LARGE AREAS OF PURE SAND MIXED GRAVEL AND COBBLES. SITE IS LOCATED ON THE EMPIRE MICHIGAN 7.5 MINUTE SERIES(TOPOGRAPHIC) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.761753/ -86.074449 Depth of Water: 0 Elevation: 177 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26019 MICHIGAN/BENZIE STORET Station ID(s): SLBE_S03 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: SLBE0078

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/90-08/10/95	29	15.	15.017	24.	7.	19.241	4.386	10.	12.	17.	22.5
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/01/90-08/10/95	26	337.5	331.423	375.	253.	863.294	29.382	289.2	325.	350.	357.5
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/01/90-08/10/95	25	10.	10.76	14.2	8.	3.031	1.741	8.64	9.3	12.2	13.2
00406 PH, FIELD, STANDARD UNITS SU	05/01/90-08/10/95	28	8.2	8.125	8.8	7.	0.142	0.377	7.69	7.9	8.375	8.6
00406 CONVERTED PH, FIELD, STANDARD UNITS	05/01/90-08/10/95	28	8.2	7.923	8.8	7.	0.184	0.429	7.69	7.9	8.375	8.6
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/90-08/10/95	28	0.006	0.012	0.1	0.002	0.	0.018	0.003	0.004	0.013	0.02
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/01/90-09/23/92	23	168.	166.957	178.	150.	37.407	6.116	158.	166.	170.	174.
00600 NITROGEN, TOTAL (MG/L AS N)	05/01/90-09/23/92	27	1.1	1.009	1.5	0.15	0.144	0.38	0.28	0.8	1.3	1.32
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/01/90-09/23/92	27	0.3	0.346	0.9	0.05	0.038	0.196	0.1	0.3	0.4	0.64
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/01/90-09/23/92	27	0.8	0.717	1.	0.005	0.071	0.267	0.17	0.6	0.9	0.92
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/90-09/23/92	27 ##	0.005	0.008	0.03	0.002	0.	0.007	0.003	0.004	0.01	0.021
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	05/15/90-09/18/90	8	43.05	62.	149.4	8.6	2366.937	48.651	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/30/92-09/23/92	6	0.8	0.983	1.9	0.5	0.282	0.531	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	08/07/90-09/23/92	21	0.9	0.962	1.8	0.4	0.141	0.376	0.52	0.7	1.25	1.56

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0078

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	25	0	0.00	10	0	0.00							15	0	0.00
00406	PH, FIELD														16	0	0.00
	Other-Hi Lim.	9.	28	0	0.00	12	0	0.00									
	Other-Lo Lim.	6.5	28	0	0.00	12	0	0.00							16	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.														14	0	0.00
	Drinking Water	10.	27	0	0.00	13	0	0.00									
82078	TURBIDITY, FIELD														9	0	0.00
	Other-Hi Lim.	50.	21	0	0.00	12	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0079

NPS Station ID: SLBE0079 LAT/LON: 44.770005/ -86.105004
 Location: LAKE MICHIGAN 1 MILES WEST OF ESCH ROAD MICHIGAN
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 04060200 RF1 Mile Point: 0.000
 RF3 Index: 04060104001602.02 RF3 Mile Point: 2.28
 Description:

Agency: 112WRD
 FIPS State/County: 26019 MICHIGAN/BENZIE
 STORET Station ID(s): 444612086061801
 Within Park Boundary: No

Date Created: 12/02/81

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.20
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0079

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/80-05/15/80	1	7.	7.	7.	7.	0.	0.	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/15/80-05/15/80	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/15/80-05/15/80	1	2.	2.	2.	2.	0.	0.	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/80-05/15/80	1	265.	265.	265.	265.	0.	0.	**	**	**
00400	PH (STANDARD UNITS)	05/15/80-05/15/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/80-05/15/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/80-05/15/80	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/15/80-05/15/80	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/15/80-05/15/80	1	110.	110.	110.	110.	0.	0.	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/15/80-05/15/80	1	140.	140.	140.	140.	0.	0.	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/15/80-05/15/80	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/80-05/15/80	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/80-05/15/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/15/80-05/15/80	1	130.	130.	130.	130.	0.	0.	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/15/80-05/15/80	1	18.	18.	18.	18.	0.	0.	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/80-05/15/80	1	35.	35.	35.	35.	0.	0.	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/80-05/15/80	1	11.	11.	11.	11.	0.	0.	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/80-05/15/80	1	5.	5.	5.	5.	0.	0.	**	**	**
00931	SODIUM ADSORPTION RATIO	05/15/80-05/15/80	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**
00932	SODIUM, PERCENT	05/15/80-05/15/80	1	8.	8.	8.	8.	0.	0.	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/80-05/15/80	1	1.	1.	1.	1.	0.	0.	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/80-05/15/80	1	8.	8.	8.	8.	0.	0.	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/80-05/15/80	1	21.	21.	21.	21.	0.	0.	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/80-05/15/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/80-05/15/80	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/15/80-05/15/80	1	3.	3.	3.	3.	0.	0.	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/80-05/15/80	1	30.	30.	30.	30.	0.	0.	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/80-05/15/80	1	1.	1.	1.	1.	0.	0.	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/80-05/15/80	1	4.	4.	4.	4.	0.	0.	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/80-05/15/80	1	4.	4.	4.	4.	0.	0.	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/15/80-05/15/80	1	1.	1.	1.	1.	0.	0.	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0079

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/80-05/15/80	1	120.	120.	120.	120.	0.	0.	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/80-05/15/80	1	1.	1.	1.	1.	0.	0.	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/15/80-05/15/80	1	40.	40.	40.	40.	0.	0.	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/80-05/15/80	1	3.	3.	3.	3.	0.	0.	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/80-05/15/80	1	1.	1.	1.	1.	0.	0.	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39756	MIREX, DISSOLVED (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/15/80-05/15/80	1	155.	155.	155.	155.	0.	0.	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/15/80-05/15/80	1	153.	153.	153.	153.	0.	0.	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/15/80-05/15/80	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	05/15/80-05/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/80-05/15/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0079

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim. 50.	1	0	0.00										1	0	0.00
00400	PH	Other-Hi Lim. 9.	1	0	0.00										1	0	0.00
		Other-Lo Lim. 6.5	1	0	0.00										1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water 1.	1	0	0.00										1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water 10.	1	0	0.00										1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water 10.	1	0	0.00										1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute 0.022	1	0	0.00										1	0	0.00
		Drinking Water 0.2	1	0	0.00										1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute 860.	1	0	0.00										1	0	0.00
		Drinking Water 250.	1	0	0.00										1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water 250.	1	0	0.00										1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water 4.	1	0	0.00										1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute 360.	1	0	0.00										1	0	0.00
		Drinking Water 50.	1	0	0.00										1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water 2000.	1	0	0.00										1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute 3.9	1	0	0.00										1	0	0.00
		Drinking Water 5.	1	0	0.00										1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water 100.	1	0	0.00										1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute 18.	1	0	0.00										1	0	0.00
		Drinking Water 1300.	1	0	0.00										1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute 82.	1	0	0.00										1	0	0.00
		Drinking Water 15.	1	0	0.00										1	0	0.00
01065	NICKEL, DISSOLVED	Fresh Acute 1400.	1	0	0.00										1	0	0.00
		Drinking Water 100.	1	0	0.00										1	0	0.00
01075	SILVER, DISSOLVED	Fresh Acute 4.1	1	0	0.00										1	0	0.00
		Drinking Water 100.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0079

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00										1	0	0.00
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00										1	0	0.00
	Drinking Water	0.2	1	0	0.00										1	0	0.00
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00										1	0	0.00
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00										1	0	0.00
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00										1	0	0.00
39381 DIELDRLN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00										1	0	0.00
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00										1	0	0.00
	Drinking Water	3.	1	0	0.00										1	0	0.00
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00										1	0	0.00
	Drinking Water	0.4	1	0	0.00										1	0	0.00
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00										1	0	0.00
	Drinking Water	0.2	1	0	0.00										1	0	0.00
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00										1	0	0.00
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00										1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	1	0	0.00										1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0080

NPS Station ID: SLBE0080 LAT/LON: 44.813892/ -86.066670

Location: L MICHIGAN, IN EMPIRE; EMPIRE TWP, SEC 18

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF EMPIRE PARK

RF1 Index: 04060104004

RF3 Index: 04060104015200.00

Description:

LAKE MICHIGAN (IN EMPIRE) AT EMPIRE PARK, 50 FT OFFSHORE OF SOUTH
GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL

Depth of Water: 3

Elevation: 0

RF1 Mile Point: 12.190

RF3 Mile Point: 0.00

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450001

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

LIMITS OF BEACH, LEELANAU COUNTY, T28N, R14W, SECTION 18, EMPIRE TOWNSHIP
BACTERIA INFORMATION IS FOUND HERE.

Parameter Inventory for Station: SLBE0080

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	26	17.75	17.288	25.	8.	10.763	3.281	13.7	15.	19.25	21.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	25	21.	20.98	29.	14.	20.468	4.524	15.	16.5	24.	27.4
00032 CLOUD COVER (PERCENT)	06/16/69-06/21/73	25	50.	40.12	100.	0.	1359.193	36.867	0.	5.	70.	96.6
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	25	8.	8.48	20.	3.	20.51	4.529	3.6	5.	12.	15.4
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/69-06/13/72	4	257.5	248.75	300.	180.	2539.583	50.394	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/13/72-06/13/72	1	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	06/13/72-06/13/72	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/14/69-06/13/72	4	8.2	8.25	8.7	7.9	0.137	0.37	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/14/69-06/13/72	4	8.155	8.146	8.7	7.9	0.151	0.389	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/69-06/13/72	4	0.007	0.007	0.013	0.002	0.	0.005	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/14/69-06/13/72	4	107.5	109.	116.	105.	27.333	5.228	**	**	**	**
00425 ALKALINITY, BICARBONATE (MG/L AS CaCO3)	07/14/69-07/14/69	1	116.	116.	116.	116.	0.	0.	**	**	**	**
00430 ALKALINITY, CARBONATE (MG/L AS CaCO3)	07/14/69-06/13/72	3	0.	1.333	4.	0.	5.333	2.309	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/17/70-08/17/70	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/17/70-08/17/70	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	07/14/69-06/13/72	4	168.5	163.25	197.	119.	1064.25	32.623	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/14/69-07/14/69	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/14/69-06/13/72	4	5.5	6.	12.	1.	28.667	5.354	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/07/71-06/07/71	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/14/69-06/13/72	4	0.4	0.373	0.6	0.09	0.071	0.267	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/69-06/13/72	4	0.085	0.073	0.12	0.	0.003	0.051	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/14/69-06/13/72	4	0.15	0.145	0.28	0.	0.015	0.122	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	07/14/69-07/14/69	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/14/69-07/14/69	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/14/69-06/13/72	4	0.02	0.023	0.03	0.02	0.	0.005	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/14/69-06/13/72	4	132.5	128.75	145.	105.	289.583	17.017	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	06/07/71-06/13/72	2	34.	34.	34.	34.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	06/07/71-06/13/72	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	06/07/71-06/13/72	2	4.9	4.9	5.	4.8	0.02	0.141	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	06/07/71-06/13/72	2	1.1	1.1	1.2	1.	0.02	0.141	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	07/14/69-06/13/72	4	7.	6.	9.	1.	14.667	3.83	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	07/14/69-06/13/72	4	22.	20.	25.	11.	38.	6.164	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	08/17/70-06/13/72	3	0.5	1.4	3.3	0.4	2.71	1.646	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0080

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	30	150.	593.333	3700.	1173919.54	1083.476	50.	50.	325.	3000.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-06/21/73	30	2.151	2.247	3.568	1.699	0.639	1.699	1.699	2.508	3.477
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =		176.689								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	5.	9.677	60.	5.	201.559	14.197	5.	5.	26.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	0.699	0.813	1.778	0.699	0.09	0.301	0.699	0.699	1.382
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		6.503								
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	06/07/71-06/13/72	2	162.	162.	172.	152.	200.	14.142	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	06/16/69-08/25/69	6	349.5	379.333	795.	22.	96620.267	310.838	**	**	**
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	08/11/69-08/11/69	1	10.	10.	10.	10.	0.	0.	**	**	**
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	06/30/69-08/11/69	2	5.	5.	7.	3.	8.	2.828	**	**	**
60200	ALGAE, COCCOID GREEN (CELLS/ML)	06/30/69-08/25/69	3	42.	53.333	101.	17.	1860.333	43.132	**	**	**
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	07/14/69-07/14/69	1	42.	42.	42.	42.	0.	0.	**	**	**
60290	ALGAE, FLAGELLATE, TOTAL (CELLS/ML)	06/16/69-08/25/69	5	7.	10.8	28.	3.	98.7	9.935	**	**	**
60360	ALGAE, DESMIDS, TOTAL (CELLS/ML)	07/14/69-07/14/69	1	14.	14.	14.	14.	0.	0.	**	**	**
60400	DIATOMS, CENTRIC (/ML)	06/16/69-08/25/69	6	41.5	45.	104.	3.	1726.4	41.55	**	**	**
60600	DIATOMS, PENNATE (/ML)	06/16/69-08/25/69	6	243.5	279.667	684.	3.	74536.267	273.013	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/14/69-06/13/72	4	0.008	0.006	0.01	0.	0.	0.005	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0080

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00									1	0	0.00
00400	PH	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00						3	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00						3	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00	1	0	0.00						3	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00						3	0	0.00
		Drinking Water	250.	4	0	0.00	1	0	0.00						3	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00						3	0	0.00
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	30	5	0.17	10	1	0.10						20	4	0.20
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	31	0	0.00	10	0	0.00						21	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	5.	10.5	60.	5.	302.5	17.393	5.	5.	5.	54.5
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	0.699	0.807	1.778	0.699	0.116	0.341	0.699	0.699	0.699	1.67
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		6.41									

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	5.	9.286	60.	5.	165.714	12.873	5.	5.	5.	26.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	0.699	0.816	1.778	0.699	0.083	0.288	0.699	0.699	0.699	1.382
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			6.548								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0081

NPS Station ID: SLBE0081

Location: L MICHIGAN, IN EMPIRE; EMPIRE TWP, SEC 18

Station Type: /TYP/A/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF EMPIRE PARK

RF1 Index: 04060104004

RF3 Index: 04060104026000.00

Description:

LAKE MICHIGAN (IN EMPIRE) AT EMPIRE PARK, 50 FT OFFSHORE OF BEACH

GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL

LAT/LON: 44.814727/ -86.066949

Depth of Water: 3

Elevation: 0

RF1 Mile Point: 12.080

RF3 Mile Point: 0.71

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450002

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0081

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	17.75	17.271	25.	8.	11.673	3.417	13.5	15.	19.75	21.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	21.	21.188	29.	14.	21.018	4.585	15.	16.5	24.	27.5
00032	CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	40.	38.458	100.	0.	1346.259	36.691	0.	5.	60.	97.
00035	WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	8.	8.417	20.	3.	21.297	4.615	3.5	5.	12.	15.5
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29	100.	689.655	3800.	50.	1383460.591	1176.206	50.	50.	600.	3500.
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29	2.	2.281	3.58	1.699	0.457	0.676	1.699	1.699	2.753	3.544
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			191.111								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	12.931	120.	5.	675.924	25.999	5.	5.	5.	20.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.842	2.079	0.699	0.126	0.355	0.699	0.699	0.699	1.301
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.946								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0081

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	6	0.21	10	4	0.40						19	2	0.11
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	0	0.00	10	0	0.00						19	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0082

NPS Station ID: SLBE0082 LAT/LON: 44.815281/ -86.067226

Location: L MICHIGAN, IN EMPIRE; EMPIRE TWP, SEC 18

Station Type: /TYP/A/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF EMPIRE PARK

RF1 Index: 04060104004

RF3 Index: 04060104026000.00

Description:

LAKE MICHIGAN (IN EMPIRE) AT EMPIRE PARK, 50 FT OFFSHORE 50 FT SOUTH OF BOATSLIP, LEELANAU COUNTY, T28N, R14W, SECTION 18, EMPIRE

TOWNSHIP GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL

BACTERIA INFORMATION IS FOUND HERE.

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450003

Within Park Boundary: No

Date Created: / /

Depth of Water: 3

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.04

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0082

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	17.75	17.271	25.	8.	11.673	3.417	13.5	15.	19.75	21.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	21.	21.188	29.	14.	21.018	4.585	15.	16.5	24.	27.5
00032 CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	40.	38.458	100.	0.	1346.259	36.691	0.	5.	60.	97.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	8.	8.417	20.	3.	21.297	4.615	3.5	5.	12.	15.5
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29	100.	931.034	12000.	50.	5890966.749	2427.131	50.	50.	650.	1700.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29	2.	2.268	4.079	1.699	0.497	0.705	1.699	1.699	2.812	3.23
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			185.526								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	12.586	170.	5.	940.394	30.666	5.	5.	10.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.841	2.23	0.699	0.104	0.322	0.699	0.699	1.	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.933								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0082

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	5	0.17	10	3	0.30							19	2	0.11
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	0	0.00	10	0	0.00							19	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0083

NPS Station ID: SLBE0083 Location: SOUTH BAR LAKE Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: SOUTH BAR LAKE LIES JUST NORTHEAST OF THE TOWN OF EMPIRE AND VERY NEAR LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF SOUTH BAR LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR.	LAT/LON: 44.815392/ -86.064920 Depth of Water: 0 Elevation: 178 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26089 MICHIGAN/LEELANAU STORET Station ID(s): SLBE_L21 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76

Date Created: 03/09/96

On/Off RF1:
On/Off RF3:

SITE IS LOCATED ON THE EMPIRE MICHIGAN 7.5 MINUTE SERIES (TOPOGRAPHIC) LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0083

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/03/90	5	22.	22.	22.	22.	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/03/90-08/03/90	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/03/90	5	8.2	8.24	8.4	8.2	0.008	0.089	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	08/03/90-08/03/90	2	8.25	8.25	8.3	8.2	0.005	0.071	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	08/03/90-08/03/90	2	8.247	8.247	8.3	8.2	0.005	0.071	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/03/90-08/03/90	2	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/03/90-08/03/90	2	169.	169.	170.	168.	2.	1.414	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/03/90-08/03/90	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/03/90-08/03/90	2	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/03/90-08/03/90	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/90-08/03/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	08/03/90-08/03/90	2	3.3	3.3	3.4	3.2	0.02	0.141	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0083

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	5	0	0.00	5	0	0.00									
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
	Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0084

NPS Station ID: SLBE0084
 Location: NORTH BAR LAKE NR EMPIRE, MICHIGAN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104
 RF3 Index: 04060104002300.00
 Description:

LAT/LON: 44.835281/ -86.061115

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.11

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 445007086034001
 Within Park Boundary: Yes

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.02

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0084

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/27/81	3	10.	12.167	18.5	8.	31.083	5.575	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/79-10/27/81	3	1.	1.3	2.	0.9	0.37	0.608	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/13/80-10/27/81	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/15/79-08/15/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/79-10/27/81	3	310.	316.333	335.	304.	270.333	16.442	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/15/79-10/27/81	3	11.1	10.467	11.5	8.8	2.123	1.457	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/15/79-10/27/81	3	95.	96.	100.	93.	13.	3.606	**	**	**	**
00400 PH (STANDARD UNITS)	08/15/79-10/27/81	3	8.2	8.2	8.3	8.1	0.01	0.1	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/15/79-10/27/81	3	8.2	8.192	8.3	8.1	0.01	0.1	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/79-10/27/81	3	0.006	0.006	0.008	0.005	0.	0.001	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/27/81-10/27/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/81-10/27/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/15/79-05/13/80	2	1.7	1.7	1.9	1.5	0.08	0.283	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/15/79-05/13/80	2	154.5	154.5	160.	149.	60.5	7.778	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/15/79-05/13/80	2	186.	186.	190.	182.	32.	5.657	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/15/79-05/13/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-10/27/81	3	0.01	0.038	0.1	0.005	0.003	0.053	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/15/79-05/13/80	2	0.325	0.325	0.44	0.21	0.026	0.163	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/79-10/27/81	3	0.3	0.333	0.5	0.2	0.023	0.153	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/15/79-10/27/81	3	0.01	0.015	0.03	0.005	0.	0.013	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/13/80-10/27/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/15/79-10/27/81	3	170.	166.667	170.	160.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/15/79-05/13/80	2	11.5	11.5	14.	9.	12.5	3.536	**	**	**	**
00910 CALCIUM (MG/L AS CaCO3)	08/15/79-08/15/79	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/15/79-10/27/81	3	43.	43.333	45.	42.	2.333	1.528	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/79-10/27/81	3	14.	14.	15.	13.	1.	1.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/15/79-10/27/81	3	2.4	2.433	2.6	2.3	0.023	0.153	**	**	**	**
00931 SODIUM ADSORPTION RATIO	05/13/80-10/27/81	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/15/79-10/27/81	3	3.	2.	3.	0.	3.	1.732	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/15/79-10/27/81	3	0.7	0.633	0.8	0.4	0.043	0.208	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/15/79-10/27/81	3	5.	5.	5.	5.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/15/79-10/27/81	3	13.	11.	13.	7.	12.	3.464	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/15/79-10/27/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/15/79-10/27/81	3	4.4	4.2	5.3	2.9	1.47	1.212	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/15/79-10/27/81	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	08/15/79-10/27/81	3	30.	26.667	30.	20.	33.333	5.774	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0084

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/15/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/15/79-10/27/81	3 ##	0.5	4.5	13.	0.	54.25	7.365	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/15/79-10/27/81	3	7.	6.	11.	0.	31.	5.568	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/15/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/79-10/27/81	3 ##	1.	2.167	5.	0.5	6.083	2.466	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/15/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/15/79-10/27/81	3	2.	4.667	10.	2.	21.333	4.619	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/15/79-10/27/81	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/79-08/15/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/79-08/15/79	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/15/79-08/15/79			0.5							
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/15/79-08/15/79	1	0.	0.	0.	0.	0.	0.	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/15/79-10/27/81	3	183.	180.667	185.	174.	34.333	5.859	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/13/80-10/27/81	2	174.	174.	180.	168.	72.	8.485	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/79-10/27/81	3	0.25	0.247	0.25	0.24	0.	0.006	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/79-05/13/80	2	1.4	1.4	1.9	0.9	0.5	0.707	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/15/79-05/13/80	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/15/79-10/27/81	3 ##	0.2	0.167	0.25	0.05	0.011	0.104	**	**	**

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EPA Water Quality Criteria Analysis for Station: SLBE0084

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	3	0	0.00	2	0	0.00							1	0	0.00
00300	OXYGEN, DISSOLVED	4.	3	0	0.00	2	0	0.00							1	0	0.00
00400	PH	9.	3	0	0.00	2	0	0.00							1	0	0.00
		6.5	3	0	0.00	2	0	0.00							1	0	0.00
00403	PH, LAB	9.	1	0	0.00	1	0	0.00									
		6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	3	0	0.00	2	0	0.00							1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	10.	2	0	0.00	1	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	3	0	0.00	2	0	0.00							1	0	0.00
00720	CYANIDE, TOTAL	0.022	2	0	0.00	1	0	0.00							1	0	0.00
		0.2	2	0	0.00	1	0	0.00							1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	22.	1	0	0.00	1	0	0.00									
		200.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	860.	3	0	0.00	2	0	0.00							1	0	0.00
		250.	3	0	0.00	2	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	250.	3	0	0.00	2	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	4.	3	0	0.00	2	0	0.00							1	0	0.00
01000	ARSENIC, DISSOLVED	360.	3	0	0.00	2	0	0.00							1	0	0.00
		50.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0084

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01005	BARIUM, DISSOLVED	2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025	CADMIUM, DISSOLVED	3.9	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5.	3	0	0.00	2	0	0.00							1	0	0.00
01030	CHROMIUM, DISSOLVED	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049	LEAD, DISSOLVED	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075	SILVER, DISSOLVED	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090	ZINC, DISSOLVED	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145	SELENIUM, DISSOLVED	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	3.	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	0.6	1	0	0.00	1	0	0.00									
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	1050.	1	0	0.00	1	0	0.00									
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	1.1	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	2.5	1	0	0.00	1	0	0.00									
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	70.	1	0	0.00	1	0	0.00									
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890	MERCURY, DISSOLVED	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0085

NPS Station ID: SLBE0085
 Location: NORTH BAR LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.843392/ -86.065643

Depth of Water: 0
 Elevation: 178

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L10
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

NORTH BAR LAKE LIES IN THE NORTH BAR WATERSHED AND IS THE ONLY BODY OF SURFACE WATER WITHIN THE WATERSHED. IT IS VERY NEAR LAKE MICHIGAN AND SOMETIMES FLOWS INTO IT. IT IS A DYNAMIC SYSTEM WHERE THE LAKE IS SOMETIMES CONNECTED TO LAKE MICHIGAN AND SOMETIMES NOT DEPENDING ON STORM EVENTS AND WAVE ACTION. LITTLE IS KNOWN ABOUT GROUNDWATER FLOW IN THIS SYSTEM. ALTHOUGH THERE IS NO DEVELOPMENT ON THE LAKE IT RECEIVES HEAVY USE DUE TO ITS PROXIMITY TO LAKE MICHIGAN. SITE IS LOCATED IN THE DEEPEST AREA OF NORTH BAR LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE EMPIRE MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	71	20.5	19.077	25.5	11.	14.855	3.854	13.	16.	22.	23.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/20/93-08/09/95	37	22.	21.649	30.	17.	27.679	5.261	17.	17.	26.	30.
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/03/90-08/09/95	7	2.2	2.386	3.5	1.8	0.365	0.604	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	2	271.	271.	304.	238.	2178.	46.669	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	69	7.4	5.719	9.6	0.2	11.152	3.339	0.6	2.5	8.6	9.4
00406 PH, FIELD, STANDARD UNITS SU	08/03/90-08/09/95	11	8.3	8.35	8.7	8.	0.053	0.231	8.02	8.1	8.62	8.686
00406 CONVERTED PH, FIELD, STANDARD UNITS	08/03/90-08/09/95	11	8.3	8.296	8.7	8.	0.057	0.238	8.02	8.1	8.62	8.686
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/03/90-08/09/95	11	0.005	0.005	0.01	0.002	0.	0.003	0.002	0.002	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/03/90-08/05/92	6	144.	143.333	146.	140.	4.267	2.066	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/03/90-08/05/92	5	0.4	0.366	0.44	0.29	0.004	0.067	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	08/03/90-08/05/92	5	0.18	0.156	0.2	0.11	0.002	0.043	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/03/90-08/09/95	7	0.01	0.013	0.04	0.001	0.	0.014	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/90-08/02/94	7	1.9	2.829	7.7	1.4	5.082	2.254	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	08/03/90-08/05/92	6	1.95	2.083	2.9	1.4	0.47	0.685	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0085

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	69	23	0.33	69	23	0.33									
00406 PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	11	0	0.00									
	Other-Lo Lim.	6.5	11	0	0.00	11	0	0.00									
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL I DET.	Drinking Water	10.	5	0	0.00	5	0	0.00									
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	6	0	0.00	6	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	10	20.	18.3	22.	11.	18.678	4.322	11.1	14.25	22.	22.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	10	7.9	6.24	8.3	0.4	9.758	3.124	0.42	4.35	8.1	8.28

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	9	21.	19.333	23.	13.	17.75	4.213	13.	14.5	23.	23.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	9	9.1	6.133	9.4	0.2	15.778	3.972	0.2	2.05	9.3	9.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	15	20.5	18.567	21.	12.5	9.674	3.11	13.1	15.5	21.	21.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	15	7.7	6.	8.4	0.7	8.313	2.883	0.88	2.9	8.	8.34

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	18	20.75	19.361	23.	12.5	9.2	3.033	12.95	17.75	21.	22.1
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	16	3.6	4.05	9.2	1.	6.467	2.543	1.14	1.9	5.75	8.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	10	20.5	18.65	23.	12.	20.558	4.534	12.	13.5	22.5	22.95
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	10	8.65	6.22	9.6	0.4	16.873	4.108	0.41	0.8	9.5	9.59

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

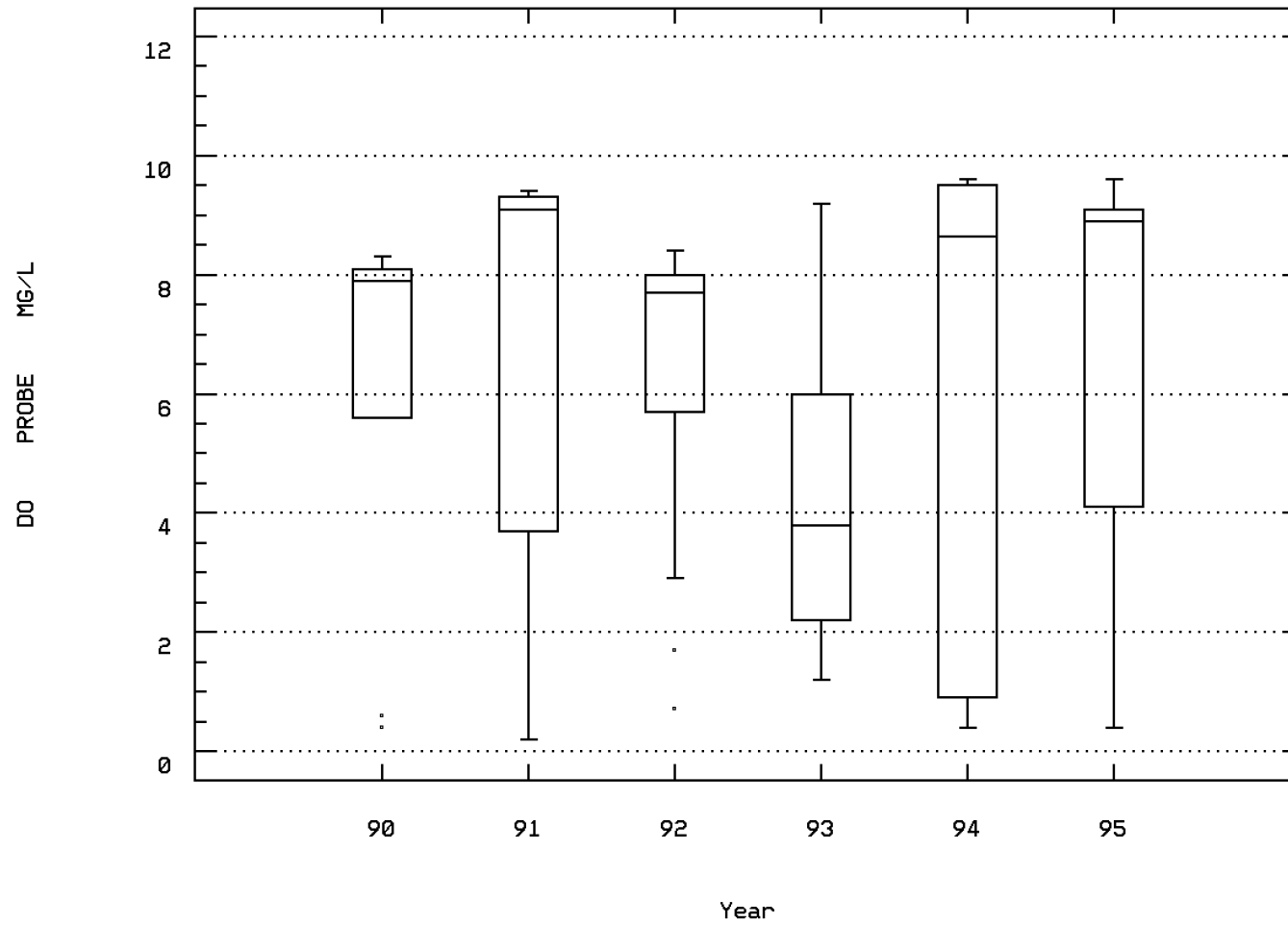
Annual Analysis for 1995 - Station SLBE0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/03/90-08/09/95	9	22.	20.444	25.5	13.	27.778	5.27	13.	14.5	25.25	25.5
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/90-08/09/95	9	8.9	6.667	9.6	0.4	14.805	3.848	0.4	2.4	9.25	9.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0085 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



NORTH BAR LAKE

Station Inventory for Station: SLBE0086

NPS Station ID: SLBE0086	LAT/LON: 44.843670/ -86.064920	Agency: 11NPSWRD	Date Created: 03/09/96
Location: NORTH BAR LAKE NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L33	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 178	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description: NORTH BAR LAKE LIES IN THE NORTH BAR WATERSHED AND IS THE ONLY BODY OF SURFACE WATER WITHIN THE WATERSHED. IT IS VERY NEAR LAKE MICHIGAN AND SOMETIMES FLOWS INTO IT. IT IS A DYNAMIC SYSTEM WHERE THE LAKE IS SOMETIMES CONNECTED TO LAKE MICHIGAN DEPENDING ON STORM EVENTS AND WAVE ACTION. LITTLE IS KNOWN ABOUT GROUNDWATER FLOW IN THIS SYSTEM ALTHOUGH THERE IS NO DEVELOPMENT ON THE LAKE RECEIVES HEAVY USE DUE TO ITS PROXIMITY TO LAKE MICHIGAN. SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ALONG THE NORTHEASTERN SHORELINE OF THE LAKE NEAR WHERE THE ACCESS ROAD ENDS. IT IS LOCATED ON THE EMPIRE MICHIGAN 7.5 MINUTE QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0086

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0086

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0087

NPS Station ID: SLBE0087
 Location: BOW LAKE (SOUTH)
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.843976/ -85.908643

Depth of Water: 0
 Elevation: 204

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L14
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

BOW LAKE (SOUTH) LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SITE IS LOCATED IN THE DEEPEST AREA OF BOW LAKE (SOUTH) AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON BURDICKVILLE MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0087

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-07/25/90	9	23.	22.711	23.8	21.	1.079	1.039	21.	21.75	23.45	23.8
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-07/25/90	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-07/25/90	9	10.6	9.844	12.2	1.	11.355	3.37	1.	10.4	11.35	12.2
00406 PH, FIELD, STANDARD UNITS SU	07/25/90-07/25/90	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/25/90-07/25/90	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-07/25/90	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/25/90-07/25/90	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-07/25/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-07/25/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-07/25/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-07/25/90	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-07/25/90	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0087

Parameter	Std. Type	Std. Value	Total		Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs				Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9		1	0.11										9	1	0.11
00406 PH, FIELD	Other-Hi Lim.	9.	1		0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1		0	0.00										1	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1		0	0.00										1	0	0.00
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	1		0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0088

NPS Station ID: SLBE0088

Location: HATLEN'S CREEK, EMPIRE TWP, SEC 11, T28N, R14W

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104038000.68

Description:

HATLEN'S CREEK IN SECTION 11, T28N, R14W, EMPIRE TOWNSHIP, LEELANAU COUNTY. SAMPLING SITE IS LOCATED AT A CULVERT OF A PRIVATE DRIVE, ON THE DOWNSTREAM SIDE, APPROX. 400 FEET UPSTREAM OF THE OUTLET TO BIG GLEN LAKE. GLEN LAKE CLEAN LAKES PROJECT STATION.

LAT/LON: 44.844448/ -85.960281

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 2.69

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450101

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.40

Distance from RF3: 0.03

Date Created: 03/14/92

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0088

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0089

NPS Station ID: SLBE0089 Location: BOW LAKE (NORTH) Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: BOW LAKE (NORTH) LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SITE IS LOCATED IN THE DEEPEST AREA OF BOW LAKE (NORTH) AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON BURDICKVILLE MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.846670/ -85.908449 Depth of Water: 0 Elevation: 204 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26089 MICHIGAN/LEELANAU STORET Station ID(s): SLBE_L13 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76	Date Created: 03/09/96 On/Off RF1: On/Off RF3:

Parameter Inventory for Station: SLBE0089

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-07/25/90	17	16.5	16.882	23.8	9.5	33.898	5.822	9.5	10.7	23.6	23.8
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-07/25/90	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-07/25/90	17	7.9	6.229	8.6	1.6	7.23	2.689	2.24	3.	8.4	8.52
00406 PH, FIELD, STANDARD UNITS SU	07/25/90-07/25/90	2	8.5	8.5	8.9	8.1	0.32	0.566	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/25/90-07/25/90	2	8.337	8.337	8.9	8.1	0.373	0.611	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-07/25/90	2	0.005	0.005	0.008	0.001	0.	0.005	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/25/90-07/25/90	2	172.	172.	188.	156.	512.	22.627	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-07/25/90	2	0.5	0.5	0.7	0.3	0.08	0.283	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-07/25/90	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-07/25/90	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-07/25/90	2	1.1	1.1	1.7	0.5	0.72	0.849	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-07/25/90	2	0.9	0.9	1.2	0.6	0.18	0.424	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0089

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	17	5	0.29										17	5	0.29
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00										2	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00										2	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00										2	0	0.00
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0090

NPS Station ID: SLBE0090	LAT/LON: 44.855226/ -85.940115	Agency: 11NPSWRD	Date Created: 03/09/96
Location: BIG GLEN LAKE NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L34	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 182	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:

Description:
 BIG GLEN LAKE LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SHORELINE OF BIG GLEN LAKE IS HIGHLY DEVELOPED. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ON THE SOUTHEASTERN SHORELINE OF THE LAKE NEAR THE PUBLIC ACCESS PICNIC AREA. SITE IS LOCATED ON THE BURDICKVILLE MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0090

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.106	0.106	0.106	0.106	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0090

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0091

NPS Station ID: SLBE0091
 Location: BIG GLEN LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.859366/ -85.945643

Depth of Water: 0
 Elevation: 182

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L11
 Within Park Boundary: No

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

BIG GLEN LAKE LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SHORELINE OF BIG GLEN LAKE IS HIGHLY DEVELOPED. THE SITE IS LOCATED IN THE DEEPEST AREA OF BIG GLEN LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE BURDICKVILLE MICHIGAN 7.5 MINUTE SERIES(TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0091

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/90-08/09/95	103	12.	14.459	25.	6.	47.562	6.897	7.	7.9	22.	24.82
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/02/93-08/09/95	63	22.	22.016	23.	22.	0.016	0.126	22.	22.	22.	22.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/24/90-08/03/94	3	4.	3.6	4.9	1.9	2.37	1.539	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/24/90-08/09/95	42	240.	237.976	260.	230.	54.951	7.413	230.	230.	240.	250.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/24/90-08/09/95	102	10.25	10.476	15.8	4.8	5.531	2.352	8.	9.1	12.125	13.75
00406 PH, FIELD, STANDARD UNITS SU	07/24/90-08/09/95	43	8.3	8.17	8.7	7.6	0.077	0.278	7.64	8.	8.4	8.4
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/24/90-08/09/95	43	8.3	8.07	8.7	7.6	0.087	0.296	7.64	8.	8.4	8.4
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/90-08/09/95	43	0.005	0.009	0.025	0.002	0.	0.007	0.004	0.004	0.01	0.023
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/24/90-07/24/90	3	128.	128.667	134.	124.	25.333	5.033	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.37	0.37	0.37	0.37	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/24/90-07/24/90	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	07/24/90-07/24/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/24/90-08/09/95	5 ##	0.005	0.005	0.01	0.002	0.	0.003	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/24/90-08/03/94	4	0.5	0.625	1.2	0.3	0.163	0.403	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/24/90-07/24/90	3	0.8	0.733	0.9	0.5	0.043	0.208	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0091

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	102	0	0.00	62	0	0.00							40	0	0.00
00406	PH, FIELD														40	0	0.00
	Other-Hi Lim.	9.	43	0	0.00	3	0	0.00									
	Other-Lo Lim.	6.5	43	0	0.00	3	0	0.00							40	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.														3	0	0.00
	Drinking Water	10.	3	0	0.00												
82078	TURBIDITY, FIELD														3	0	0.00
	Other-Hi Lim.	50.	3	0	0.00												

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0092

NPS Station ID: SLBE0092
 Location: LITTLE GLEN LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.864365/ -86.005199

Depth of Water: 0
 Elevation: 182

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L12
 Within Park Boundary: No

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

LITTLE GLEN LAKE LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SHORELINE OF LITTLE GLEN LAKE IS HIGHLY DEVELOPED. THE SITE IS LOCATED IN THE DEEPEST AREA OF LITTLE GLEN LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON EMPIRE MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0092

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/90-08/09/95	24	23.6	23.733	26.	22.	2.161	1.47	22.	22.125	24.475	26.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/02/93-08/09/95	17	27.	26.235	30.	23.	9.191	3.032	23.	23.	30.	30.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/24/90-08/09/95	3	2.7	2.633	3.1	2.1	0.253	0.503	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/24/90-08/09/95	10	210.	213.3	254.	199.	216.456	14.712	200.1	210.	210.	249.6
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/24/90-08/09/95	24	9.1	9.579	15.	6.8	3.077	1.754	8.15	8.7	9.875	12.4
00406 PH, FIELD, STANDARD UNITS SU	07/24/90-08/09/95	12	8.4	8.433	8.8	8.2	0.022	0.15	8.23	8.4	8.475	8.74
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/24/90-08/09/95	12	8.4	8.412	8.8	8.2	0.023	0.151	8.23	8.4	8.475	8.74
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/90-08/09/95	12	0.004	0.004	0.006	0.002	0.	0.001	0.002	0.003	0.004	0.006
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/24/90-07/24/90	2	116.	116.	124.	108.	128.	11.314	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/24/90-07/24/90	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	07/24/90-07/24/90	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/24/90-08/09/95	4 ##	0.005	0.016	0.05	0.004	0.001	0.023	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/24/90-08/03/94	4	1.25	1.4	2.3	0.8	0.487	0.698	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/24/90-07/24/90	2	0.5	0.5	0.9	0.1	0.32	0.566	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0092

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	24	0	0.00	16	0	0.00							8	0	0.00
00406	PH, FIELD														9	0	0.00
	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00									
	Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00							9	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.														2	0	0.00
	Drinking Water	10.	2	0	0.00												
82078	TURBIDITY, FIELD														2	0	0.00
	Other-Hi Lim.	50.	2	0	0.00												

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0093

NPS Station ID: SLBE0093 LAT/LON: 44.865004/ -86.008755

Location: LITTLE GLEN LK-S CENTRAL BASIN; EMPIRE TWP SEC 4

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104022

RF3 Index: 04060104038000.67

Description:

LITTLE GLEN LAKE IN LEELANAU COUNTY. 13 FEET DEEP BASIN LOCATED IN SOUTH CENTRAL PART OF LAKE 3500 FEET NW OF OUTLET TO BIG GLEN LAKE.

INLETS-FROM DAYS POND AT N END, DRAINAGE DITCHES ON SW SIDE AND SPRINGS. OUTLET-TO BIG GLEN LAKE AT SE END. CRYSTAL RIVER BASIN.

NEAREST TOWN IS GLEN ARBOR 1.5 MILES NE.

Depth of Water: 13

Elevation: 0

RF1 Mile Point: 5.340

RF3 Mile Point: 0.67

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450050 /AC01400.0

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.76

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0093

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/73-08/29/85	12	21.4	20.042	24.	15.	11.108	3.333	15.	16.25	22.2	23.85
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/27/73-09/27/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	2	1.45	1.45	1.5	1.4	0.005	0.071	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	09/27/73-08/29/85	5	120.	114.2	156.	85.	813.2	28.517	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/80-04/30/85	8	239.	236.875	244.	222.	56.696	7.53	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/27/73-08/27/80	4	233.5	232.75	240.	224.	44.917	6.702	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/27/73-08/29/85	10	9.55	9.7	11.8	7.8	1.698	1.303	7.84	8.5	10.775	11.72
00400 PH (STANDARD UNITS)	09/27/73-08/29/85	10	8.5	8.513	8.7	8.15	0.026	0.16	8.175	8.46	8.625	8.7
00400 CONVERTED PH (STANDARD UNITS)	09/27/73-08/29/85	10	8.5	8.483	8.7	8.15	0.027	0.163	8.175	8.46	8.625	8.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/27/73-08/29/85	10	0.003	0.003	0.007	0.002	0.	0.001	0.002	0.002	0.003	0.007
00403 PH, LAB, STANDARD UNITS SU	08/27/80-08/27/80	2	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	08/27/80-08/27/80	2	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/80-08/27/80	2	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/27/80-04/30/85	6	107.	107.5	113.	102.	15.9	3.987	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/27/73-09/27/73	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/27/73-07/25/84	5	4.	3.6	5.	2.	1.3	1.14	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/27/73-08/29/85	7	0.25	0.257	0.387	0.16	0.006	0.075	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/73-08/29/85	9	0.011	0.013	0.021	0.006	0.	0.006	0.006	0.008	0.02	0.021
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	07/25/84-04/30/85	2	0.003	0.003	0.003	0.002	0.	0.001	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/27/80-08/29/85	7	0.31	0.293	0.4	0.18	0.005	0.073	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	09/27/73-08/29/85	9	0.009	0.033	0.08	0.004	0.001	0.034	0.004	0.005	0.07	0.08
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/27/73-08/29/85	9	0.007	0.007	0.02	0.003	0.	0.005	0.003	0.004	0.009	0.02
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/27/80-08/27/80	2	30.	30.	30.	30.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	07/25/84-04/30/85	3	23.8	26.1	31.1	23.4	18.79	4.335	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	2	13.5	13.5	14.	13.	0.5	0.707	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	07/25/84-04/30/85	3	12.1	11.9	12.4	11.2	0.39	0.624	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	07/25/84-04/30/85	3	4.1	3.967	4.1	3.7	0.053	0.231	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/27/80-08/27/80	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	07/25/84-04/30/85	3	0.5	0.6	0.8	0.5	0.03	0.173	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/80-04/30/85	6	2.	1.667	2.	1.	0.267	0.516	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/80-04/30/85	6	11.	11.167	13.	10.	1.367	1.169	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/27/80-04/30/85	4	2.68	2.675	3.6	1.74	1.141	1.068	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/27/73-09/27/73	2	20.	20.	20.	20.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/27/73-09/27/73	2##	87.5	87.5	150.	25.	7812.5	88.388	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/27/73-09/27/73	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/27/73-09/27/73	2	35.	35.	40.	30.	50.	7.071	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/27/80-08/29/85	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/27/73-04/30/85	4	0.006	0.008	0.02	0.001	0.	0.009	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0093

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00								
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00								
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	6	0	0.00						4	0	0.00
00400	PH	Other-Hi Lim.	9.	10	0	0.00	6	0	0.00						4	0	0.00
		Other-Lo Lim.	6.5	10	0	0.00	6	0	0.00						4	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00								
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00								
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00									2	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00	5	0	0.00						4	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	2	0	0.00						4	0	0.00
		Drinking Water	250.	6	0	0.00	2	0	0.00						4	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00						4	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	2	2	1.00	2	2	1.00						4	0	0.00
		Drinking Water	1300.	2	0	0.00	2	0	0.00								
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00								
		Drinking Water	5000.	2	0	0.00	2	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0094

NPS Station ID: SLBE0094	LAT/LON: 44.865309/ -85.998504	Agency: 11NPSWRD	Date Created: 03/09/96
Location: LITTLE GLEN LAKE NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYP A/AMBNT/LAKE		STORET Station ID(s): SLBE_L35	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 182	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
LITTLE GLEN LAKE LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SHORELINE OF LITTLE GLEN LAKE IS HIGHLY DEVELOPED. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ON THE EASTERN SHORELINE OF THE LAKE NEAR THE PUBLIC ACCESS LOCATION THAT IS NORTH OF THE INLET TO BIG GLEN LAKE. SITE IS LOCATED ON THE BURDICKVILLE MICHIGAN 7.5 MINUTE SERIES QUAD. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0094

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0094

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0095

NPS Station ID: SLBE0095

Location: BROOKS LK OUTLET,GLEN ARBOR TWP,SEC 31,T29N,R13W

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104038000.61

Description:

BROOKS LAKE OUTLET IN SECTION 31, T29N, R13W, GLEN ARBOR TOWNSHIP, LEELANAU COUNTY. SAMPLING SITE IS LOCATED APPROX. 50 FEET UPSTREAM FROM THE MOUTH OF THE NORTH OUTLET TO BIG GLEN LAKE, IN THE CENTER OF THE OUTLET OFF THE SOUTH BANK. GLEN LAKE CLEAN LAKES PROJECT STATION.

LAT/LON: 44.875559/ -85.936392

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.61

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450100

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.60

Distance from RF3: 0.02

Date Created: 03/14/92

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0095

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0096

NPS Station ID: SLBE0096 LAT/LON: 44.877781/ -85.801670

Location: VICTORIA CR. @ GATSKIE RD. CENTERVILLE TWP.SEC 31

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN:LAKE MICHIGAN

Minor Basin: MIN BASIN:PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

VICTORIA CREEK AT GATSKIE ROAD CENTERVILLE TOWNSHIP SECTION 31, T29N,R12W, IN LEELANAU COUNTY.

THIS STATION IS USED TO DETERMINE WATER QUALITY ENTERING LAKE MICHIGAN AND A MAGELLAN GPS, NAV 5000D WAS USED TO DETERMINE THE SITE LOCATION.

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450129

Within Park Boundary: No

Date Created: 08/07/93

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0096

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/93-09/28/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/93-09/28/93	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/93-09/28/93	1	433.	433.	433.	433.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	09/28/93-09/28/93	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	09/28/93-09/28/93	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/93-09/28/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	09/28/93-09/28/93	1	213.	213.	213.	213.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	09/28/93-09/28/93	1	301.	301.	301.	301.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/28/93-09/28/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/28/93-09/28/93	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	1	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/93-09/28/93	1	0.77	0.77	0.77	0.77	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/93-09/28/93	1	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/28/93-09/28/93	1	0.043	0.043	0.043	0.043	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	09/28/93-09/28/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	09/28/93-09/28/93	1	225.	225.	225.	225.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	09/28/93-09/28/93	1	65.5	65.5	65.5	65.5	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/28/93-09/28/93	1	14.6	14.6	14.6	14.6	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	09/28/93-09/28/93	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	09/28/93-09/28/93	1	1.41	1.41	1.41	1.41	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	09/28/93-09/28/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS Ba)	09/28/93-09/28/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	09/28/93-09/28/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	09/28/93-09/28/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	09/28/93-09/28/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	09/28/93-09/28/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	09/28/93-09/28/93	1	490.	490.	490.	490.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	09/28/93-09/28/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	09/28/93-09/28/93	1	64.	64.	64.	64.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0096

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01062 MOLYBDENUM, TOTAL (UG/L AS MO)	09/28/93-09/28/93	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	09/28/93-09/28/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	09/28/93-09/28/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01087 VANADIUM, TOTAL (UG/L AS V)	09/28/93-09/28/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	09/28/93-09/28/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	09/28/93-09/28/93	1	220.	220.	220.	220.	0.	0.	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	09/28/93-09/28/93	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01152 TITANIUM, TOTAL (UG/L AS TI)	09/28/93-09/28/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	09/28/93-09/28/93	1	281.	281.	281.	281.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	09/28/93-09/28/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0096

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01007 BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
	Drinking Water	4.	1	0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
	Drinking Water	5.	1	0	0.00	1	0	0.00									
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	1	0	0.00	1	0	0.00									
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
	Drinking Water	6.	1	0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0097

NPS Station ID: SLBE0097 LAT/LON: 44.878893/ -85.962782

Location: GLEN LK-NORTH CENT BASIN; GLEN ARBOR TWP SEC 35

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0703

RF1 Index: 04060104022

RF3 Index: 04060104002506.41

Description:

GLEN LAKE IN LEELANAU COUNTY. 130 FEET DEEP BASIN LOCATED IN NORTH PART OF LAKE 4000 FEET FROM MIDPOINT OFNORTH SHORE.
INLETS-HADLEM CR. ON S SIDE, CREEK FROM BROOKS LAKE ON E SIDE AND NUMEROUS SPRINGS. OUTLET-TO FISHER LAKE AT NE CORNER.
CRYSTAL RIVER BASIN. TOWN OF GLEN ARBOR IS AT NW CORNER OF LAKE. ACCESS AT TWP. PARK ON SW SIDE.

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450049 /AC04865.0

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.39

Date Created: / /

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0097

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/73-08/29/85	44	13.9	13.818	22.5	5.	35.693	5.974	7.25	7.85	20.2	22.
00024 SAMPLE LENGTH IN INCHES	08/17/72-08/17/72	3	10.	11.75	16.75	8.5	19.313	4.395	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	09/27/73-09/27/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	3	0.8	0.9	1.3	0.6	0.13	0.361	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	09/27/73-08/29/85	5	180.	240.	360.	168.	8856.	94.106	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/27/80-04/30/85	30	279.5	283.1	338.	247.	895.817	29.93	251.	254.75	308.25	335.8
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/27/73-08/27/80	7	260.	257.714	290.	232.	376.571	19.405	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	09/27/73-08/29/85	49	9.6	10.065	13.5	2.1	4.991	2.234	7.8	9.2	11.8	13.4
00400p PH (STANDARD UNITS)	04/12/67-08/29/85	50	8.375	8.393	9.8	7.6	0.215	0.463	7.923	8.1	8.5	8.99
00400p CONVERTED PH (STANDARD UNITS)	04/12/67-08/29/85	50	8.374	8.218	9.8	7.6	0.246	0.496	7.923	8.1	8.5	8.99
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/29/85	50	0.004	0.006	0.025	0.	0.	0.005	0.001	0.003	0.008	0.012
00403 PH, LAB, STANDARD UNITS SU	08/27/80-08/27/80	3	8.4	8.2	8.5	7.7	0.19	0.436	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	08/27/80-08/27/80	3	8.4	8.044	8.5	7.7	0.226	0.476	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/80-08/27/80	3	0.004	0.009	0.02	0.003	0.	0.009	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/27/80-04/30/85	9	129.	127.444	138.	118.	36.028	6.002	118.	123.	130.5	138.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/27/73-09/27/73	1	162.	162.	162.	162.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/27/73-07/25/84	7	2.	2.857	6.	1.	4.81	2.193	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/27/73-08/29/85	13	0.17	0.171	0.26	0.07	0.003	0.057	0.074	0.129	0.215	0.246
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/73-08/29/85	16	0.005	0.02	0.116	0.002	0.001	0.038	0.002	0.004	0.013	0.116
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	07/25/84-04/30/85	4	0.003	0.004	0.008	0.002	0.	0.003	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/67-04/12/67	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/27/80-08/29/85	12	0.185	0.194	0.38	0.08	0.007	0.085	0.086	0.128	0.225	0.359
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	09/27/73-08/29/85	16	0.055	0.058	0.26	0.001	0.005	0.07	0.002	0.004	0.07	0.19
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/12/67-08/29/85	15	0.005	0.009	0.02	0.004	0.	0.006	0.004	0.004	0.01	0.02
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/12/67-04/12/67	1	140.	140.	140.	140.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/27/80-08/27/80	3	30.	33.333	40.	30.	33.333	5.774	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	07/25/84-04/30/85	4	32.75	33.3	35.6	32.1	2.527	1.59	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	3	13.	13.	13.	13.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	07/25/84-04/30/85	4	12.85	12.8	12.9	12.6	0.02	0.141	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	07/25/84-04/30/85	4	4.15	4.225	4.5	4.1	0.036	0.189	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0097

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/80-08/27/80	3	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	3	0.6	0.6	0.6	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/25/84-04/30/85	4	0.65	0.65	0.7	0.6	0.003	0.058	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/27/80-04/30/85	9	1.	1.333	2.	1.	0.25	0.5	1.	1.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/80-04/30/85	9	12.	11.778	14.	9.	2.944	1.716	10.	13.	14.
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	08/27/80-04/30/85	6	2.8	2.983	4.4	2.4	0.514	0.717	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/27/73-09/27/73	4	15.	15.	20.	10.	33.333	5.774	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/27/73-09/27/73	4 ##	25.	25.	25.	25.	0.	0.	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/27/73-09/27/73	4	10.	15.	30.	10.	100.	10.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/27/73-09/27/73	4	40.	37.5	40.	30.	25.	5.	**	**	**
34690	PCB - 1254 WET WGT TSMG/KG	08/17/72-08/17/72	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	08/17/72-08/17/72	3	0.5	0.5	0.5	0.5	0.	0.	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	3 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	3 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	3 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/17/72-08/17/72	3	0.007	0.009	0.02	0.001	0.	0.01	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/17/72-08/17/72	3 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/67-04/30/85	10	0.001	0.005	0.02	0.	0.	0.007	0.	0.001	0.01

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

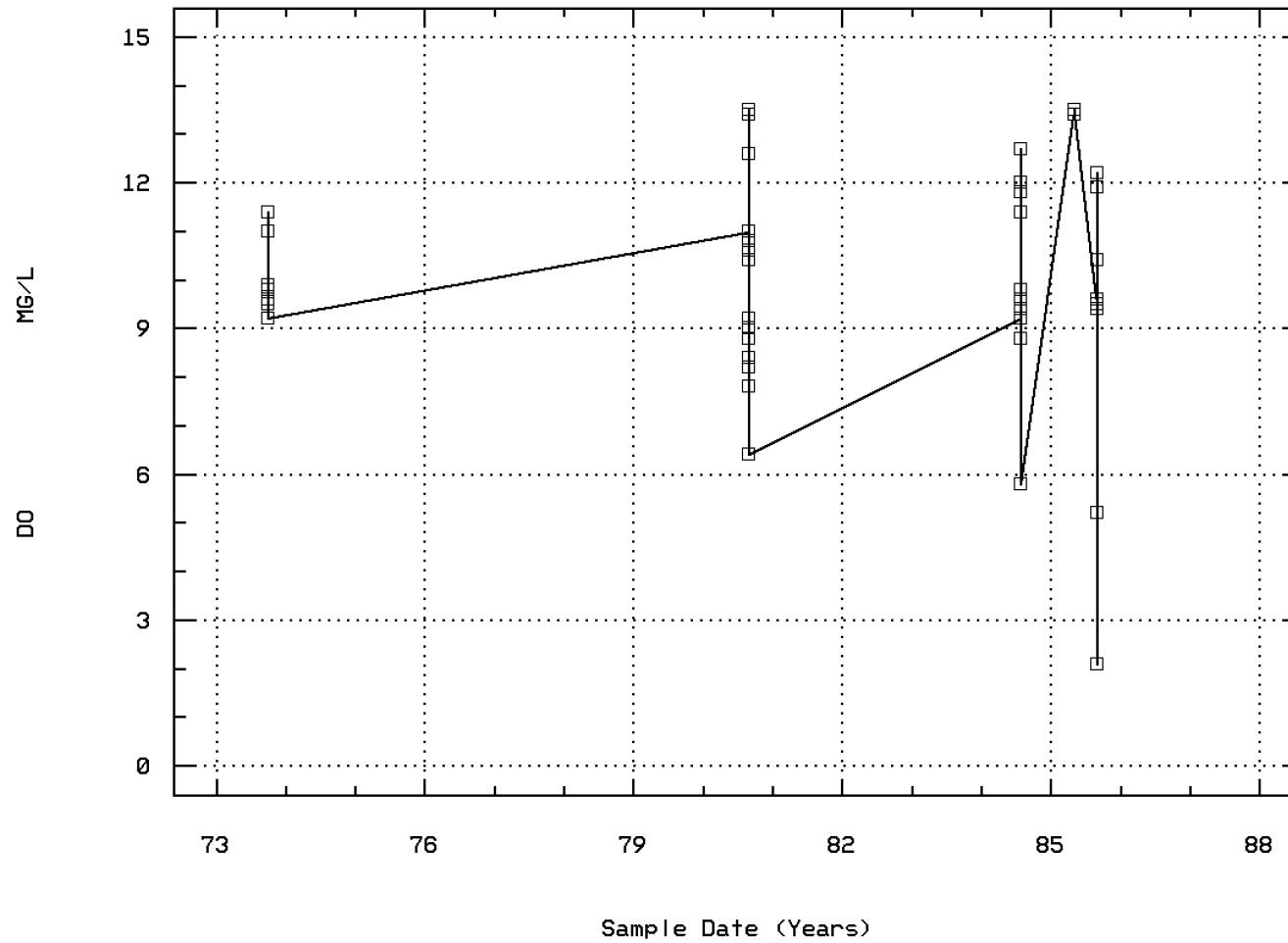
EPA Water Quality Criteria Analysis for Station: SLBE0097

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	1	0	0.00	1	0	0.00									
00076	TURBIDITY, HACH TURBIDIMETER	50.	3	0	0.00	3	0	0.00									
00300	OXYGEN, DISSOLVED	4.	49	1	0.02	33	1	0.03							16	0	0.00
00400	PH	9.	50	5	0.10	33	5	0.15				1	0	0.00	16	0	0.00
	Other-Lo Lim.	6.5	50	0	0.00	33	0	0.00				1	0	0.00	16	0	0.00
00403	PH, LAB	9.	3	0	0.00	3	0	0.00									
	Other-Hi Lim.	6.5	3	0	0.00	3	0	0.00									
	Other-Lo Lim.	1.	4	0	0.00										4	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	10.	1	0	0.00							1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	10.	16	0	0.00	10	0	0.00							6	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	860.	9	0	0.00	3	0	0.00							6	0	0.00
00940	CHLORIDE, TOTAL IN WATER	250.	9	0	0.00	3	0	0.00							6	0	0.00
	Drinking Water	250.	9	0	0.00	3	0	0.00							6	0	0.00
00945	SULFATE, TOTAL (AS SO4)	18.	4	2	0.50	4	2	0.50									
01042	COPPER, TOTAL	1300.	4	0	0.00	4	0	0.00									
	Drinking Water	120.	4	0	0.00	4	0	0.00									
01092	ZINC, TOTAL	5000.	4	0	0.00	4	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: SLBE0097 Parameter Code: 00300

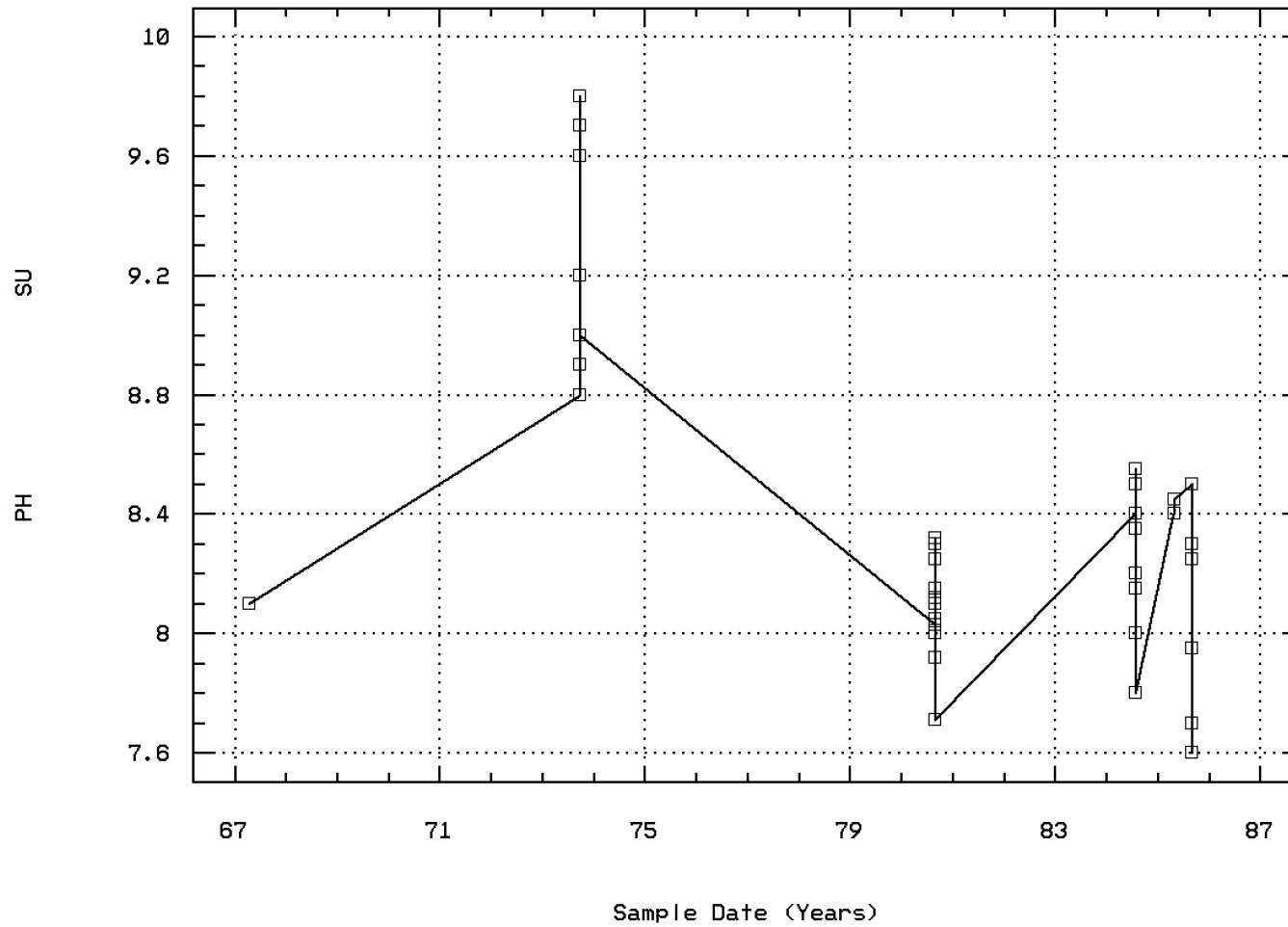
OXYGEN, DISSOLVED



GLEN LK-NORTH CENT BASIN; GLEN ARBOR TW

Station: SLBE0097 Parameter Code: 00400

PH (STANDARD UNITS)



GLEN LK-NORTH CENT BASIN; GLEN ARBOR TW

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/73-08/29/85	31	14.	13.994	22.2	7.	30.677	5.539	7.5	8.	20.	21.9
00300	OXYGEN, DISSOLVED MG/L	09/27/73-08/29/85	33	9.6	9.752	13.5	2.1	5.049	2.247	6.96	9.1	11.	12.44
00400p	PH (STANDARD UNITS)	04/12/67-08/29/85	33	8.3	8.422	9.8	7.6	0.304	0.551	7.794	8.04	8.65	9.44
00400p	CONVERTED PH (STANDARD UNITS)	04/12/67-08/29/85	33	8.3	8.19	9.8	7.6	0.359	0.599	7.794	8.04	8.65	9.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/29/85	33	0.005	0.006	0.025	0.	0.	0.006	0.	0.002	0.009	0.017
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/73-08/29/85	10 ##	0.005	0.015	0.116	0.002	0.001	0.035	0.002	0.003	0.005	0.105
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/27/73-08/29/85	10	0.04	0.068	0.26	0.001	0.007	0.086	0.001	0.003	0.115	0.25

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/01 to 4/14 - Station SLBE0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	04/12/67-08/29/85	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	04/12/67-08/29/85	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/29/85	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0097

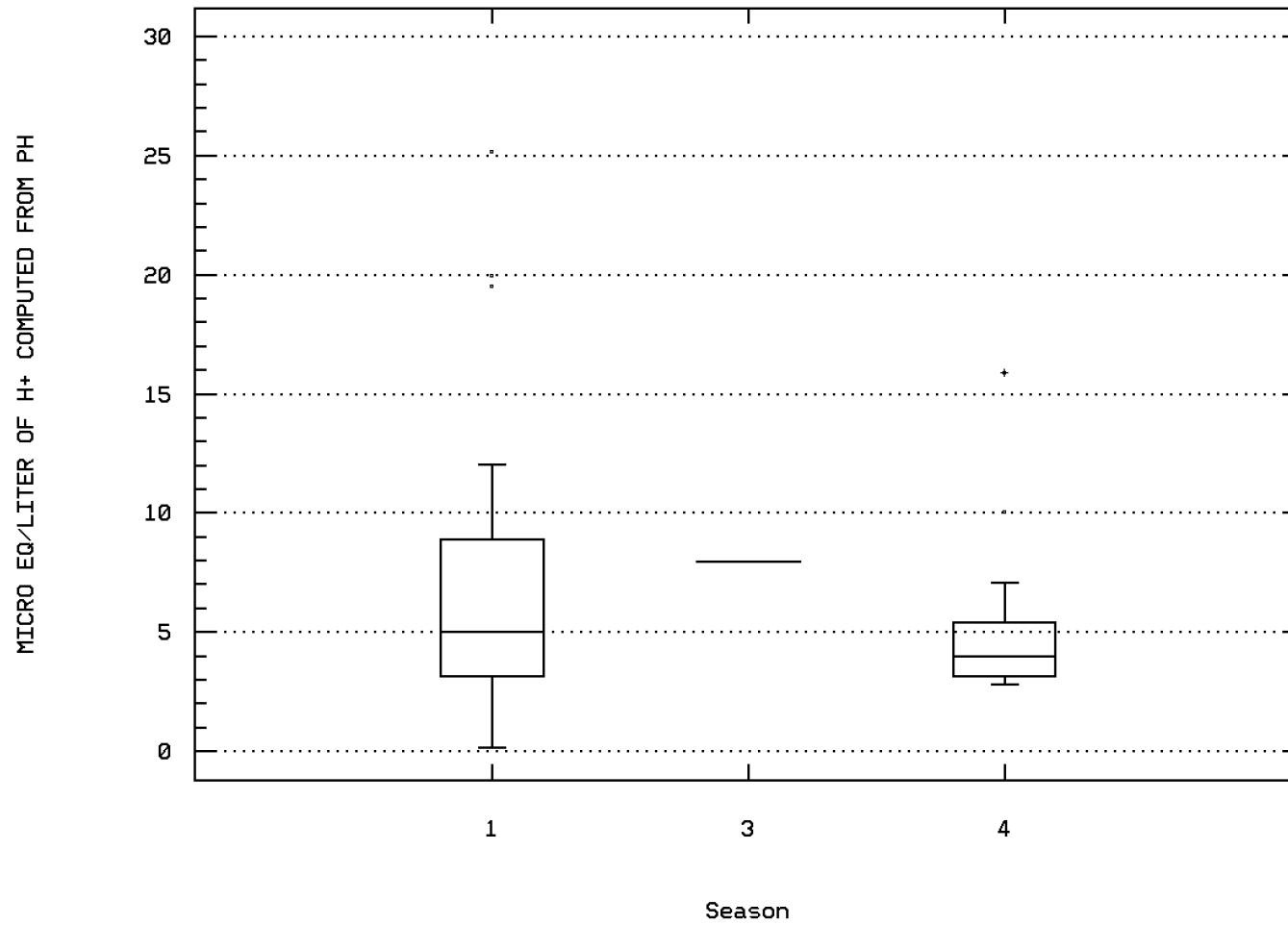
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/73-08/29/85	13	11.5	13.4	22.5	5.	50.938	7.137	5.08	6.75	21.25	22.3
00300	OXYGEN, DISSOLVED MG/L	09/27/73-08/29/85	16	10.6	10.713	13.5	5.8	4.537	2.13	7.9	9.25	12.525	13.43
00400p	PH (STANDARD UNITS)	04/12/67-08/29/85	16	8.4	8.35	8.55	7.8	0.044	0.21	7.94	8.237	8.5	8.515
00400p	CONVERTED PH (STANDARD UNITS)	04/12/67-08/29/85	16	8.4	8.291	8.55	7.8	0.048	0.218	7.94	8.237	8.5	8.515
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/67-08/29/85	16	0.004	0.005	0.016	0.003	0.	0.003	0.003	0.003	0.006	0.012
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/73-08/29/85	6	0.012	0.028	0.116	0.005	0.002	0.043	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/27/73-08/29/85	6	0.055	0.041	0.07	0.003	0.001	0.03	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0097 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH

(X 0.001)



GLEN LK-NORTH CENT BASIN; GLEN ARBOR TW

Station Inventory for Station: SLBE0098

NPS Station ID: SLBE0098

Location: DAY POND OUTLET, GLEN ARBOR TWP,SEC 29,T29N,R14W

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104038003.97

Description:

DAY POND OUTLET IN SECTION 29, T29N, R14W, GLEN ARBOR TOWNSHIP, LEELANAU COUNTY. SAMPLING SITE IS LOCATED AT THE CENTER OF THE MOUTH OF THE OUTLET, JUST UPSTREAM OF LITTLE GLEN LAKE. GLEN LAKE CLEAN LAKES PROJECT STATION.

LAT/LON: 44.883337/ -86.035837

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 4.09

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450102

Within Park Boundary: Yes

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 1.20

Distance from RF3: 0.00

Date Created: 03/14/92

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0099

NPS Station ID: SLBE0099 LAT/LON: 44.885281/ -85.796392

Location: BODUS CR AT CO. RD. 651; CENTERVILLE TWP SEC 30

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0705

RF1 Index: 04060104

RF3 Index: 04060104015300.00

Description:

BACKGROUND WATER QUALITY PROGRAM- BODUS CREEK AT COUNTY ROAD 651 BRIDGE, SECS 29 & 30, T29N, R12W, CENTERVILLE TWP, LEELANAU CO.

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450014

Within Park Boundary: No

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 15.50

Distance from RF3: 0.90

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0099

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/67-11/06/67	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY CFS	11/06/67-11/06/67	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	11/06/67-11/06/67	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	11/06/67-11/06/67	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	11/06/67-11/06/67	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	11/06/67-11/06/67	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/06/67-11/06/67	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	11/06/67-11/06/67	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	11/06/67-11/06/67	1	246.	246.	246.	246.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/06/67-11/06/67	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/06/67-11/06/67	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/06/67-11/06/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	11/06/67-11/06/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/06/67-11/06/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	11/06/67-11/06/67	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	11/06/67-11/06/67	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	11/06/67-11/06/67	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	11/06/67-11/06/67	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	11/06/67-11/06/67	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	11/06/67-11/06/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	11/06/67-11/06/67	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	11/06/67-11/06/67	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	11/06/67-11/06/67	1	100.	100.	100.	100.	0.	0.	**	**	**	**
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	11/06/67-11/06/67	1	800.	800.	800.	800.	0.	0.	**	**	**	**
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	11/06/67-11/06/67	1	2.903	2.903	2.903	2.903	0.	0.	**	**	**	**
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			800.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/06/67-11/06/67	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/06/67-11/06/67	1 ##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			50.								
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/06/67-11/06/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0099

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	4.	1	0	0.00	1	0	0.00									
00400	PH	9.	1	0	0.00	1	0	0.00									
	Other-Hi Lim.	6.5	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	10.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	860.	1	0	0.00	1	0	0.00									
	Fresh Acute	250.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	4.	1	0	0.00	1	0	0.00									
31504	COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	1000.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	1	0	0.00	1	0	0.00									
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0100

NPS Station ID: SLBE0100
Location: BALDWIN RIVER AT BALDWIN, MICH.
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 04060104
Major Basin:
Minor Basin:
RF1 Index: 04060104023
RF3 Index: 04060104010200.00
Description:

LAT/LON: 44.885559/ -85.851949

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 7.360
RF3 Mile Point: 0.00

Agency: 112WRD
FIPS State/County: 26085 MICHIGAN/LAKE
STORET Station ID(s): 04122350
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.14

Date Created: / /

On/Off RF1: OFF
On/Off RF3:

Parameter Inventory for Station: SLBE0100

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0101

NPS Station ID: SLBE0101

Location: GLEN LK OUTLET, GLEN ARBOR TWP, SEC 25,T29N,R14W

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104006700.00

Description:

BIG GLEN LAKE OUTLET IN SECTION 29, T29N, R14W, GLEN ARBOR TOWNSHIP,

BIG GLEN LAKE IN THE CENTER OF THE CHANNEL. GLEN LAKE CLEAN LAKES

LAT/LON: 44.891670/ -85.945837

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.92

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450099

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 24.00

Distance from RF3: 0.08

Date Created: 03/14/92

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0101

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0102

NPS Station ID: SLBE0102
 Location: GLEN LAKE NR GLEN ARBOR, MICHIGAN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104
 RF3 Index: 04060104012300.00
 Description:

LAT/LON: 44.891948/ -85.945837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.66

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 445331085564501
 Within Park Boundary: No

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.30
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0102

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/17/79-10/27/81	3	9.	11.167	16.	8.5	17.583	4.193	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/17/79-10/27/81	3	1.	0.867	1.1	0.5	0.103	0.321	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/17/79-08/17/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/17/79-10/27/81	3	260.	259.333	273.	245.	196.333	14.012	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/17/79-10/27/81	3	9.5	10.133	11.7	9.2	1.863	1.365	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/17/79-10/27/81	3	97.	91.667	103.	75.	217.333	14.742	**	**	**	**
00400 PH (STANDARD UNITS)	08/17/79-10/27/81	3	8.1	8.1	8.3	7.9	0.04	0.2	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/17/79-10/27/81	3	8.1	8.07	8.3	7.9	0.041	0.203	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/17/79-10/27/81	3	0.008	0.009	0.013	0.005	0.	0.004	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/27/81-10/27/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/81-10/27/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/17/79-05/14/80	2	1.65	1.65	2.	1.3	0.245	0.495	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/17/79-05/14/80	2	131.5	131.5	133.	130.	4.5	2.121	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/17/79-05/14/80	2	161.	161.	162.	160.	2.	1.414	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/17/79-05/14/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/17/79-10/27/81	3	0.005	0.015	0.04	0.	0.	0.022	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/17/79-05/14/80	2	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/17/79-10/27/81	3	0.08	0.077	0.1	0.05	0.001	0.025	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/17/79-10/27/81	3 ##	0.005	0.003	0.005	0.	0.	0.003	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	08/17/79-10/27/81	3	0.	0.002	0.005	0.	0.	0.003	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/17/79-10/27/81	3	130.	133.333	140.	130.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/17/79-05/14/80	2	3.	3.	5.	1.	8.	2.828	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/17/79-10/27/81	3	32.	32.333	33.	32.	0.333	0.577	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/17/79-10/27/81	3	13.	13.	13.	13.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/17/79-10/27/81	3	2.8	2.9	3.2	2.7	0.07	0.265	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/17/79-10/27/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/17/79-10/27/81	3	4.	4.333	5.	4.	0.333	0.577	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/17/79-10/27/81	3	0.5	0.433	0.6	0.2	0.043	0.208	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/17/79-10/27/81	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/17/79-10/27/81	3	11.	10.	11.	8.	3.	1.732	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/17/79-10/27/81	3	0.4	0.433	0.5	0.4	0.003	0.058	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/17/79-10/27/81	3	5.4	5.267	5.7	4.7	0.263	0.513	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/17/79-10/27/81	3	2.	2.	3.	1.	1.	1.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	08/17/79-10/27/81	3	30.	33.333	40.	30.	33.333	5.774	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	08/17/79-10/27/81	3 ##	0.5	1.5	4.	0.	4.75	2.179	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	08/17/79-10/27/81	3 ##	0.5	1.167	3.	0.	2.583	1.607	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0102

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01046	IRON, DISSOLVED (UG/L AS FE)	08/17/79-10/27/81	3 ##	1.5	2.167	5.	0.	6.583	2.566	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/17/79-10/27/81	3	1.	1.667	4.	0.	4.333	2.082	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/79-10/27/81	3 ##	0.5	1.833	5.	0.	7.583	2.754	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/17/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/79-10/27/81	3	3.	3.	4.	2.	1.	1.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/17/79-10/27/81	3 ##	0.5	1.333	3.	0.5	2.083	1.443	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/17/79-08/17/79	1	21.	21.	21.	21.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/17/79-08/17/79	1	1.322	1.322	1.322	1.322	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			21.								
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/17/79-08/17/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/17/79-10/27/81	3	143.	143.333	148.	139.	20.333	4.509	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/17/79-10/27/81	3	146.	145.333	147.	143.	4.333	2.082	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/17/79-10/27/81	3	0.19	0.193	0.2	0.19	0.	0.006	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/17/79-05/14/80	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/17/79-05/14/80	2	0.065	0.065	0.13	0.	0.008	0.092	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/17/79-10/27/81	3 ##	0.05	0.117	0.25	0.05	0.013	0.115	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0102

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim. 50.	3	0	0.00	2	0	0.00							1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim. 4.	3	0	0.00	2	0	0.00							1	0	0.00
00400	PH	Other-Hi Lim. 9.	3	0	0.00	2	0	0.00							1	0	0.00
		Other-Lo Lim. 6.5	3	0	0.00	2	0	0.00							1	0	0.00
00403	PH, LAB	Other-Hi Lim. 9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim. 6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water 1.	3	0	0.00	2	0	0.00							1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water 10.	2	0	0.00	1	0	0.00							1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water 10.	3	0	0.00	2	0	0.00							1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute 0.022	3	0	0.00	2	0	0.00							1	0	0.00
		Drinking Water 0.2	3	0	0.00	2	0	0.00							1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute 860.	3	0	0.00	2	0	0.00							1	0	0.00
		Drinking Water 250.	3	0	0.00	2	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water 250.	3	0	0.00	2	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water 4.	3	0	0.00	2	0	0.00							1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute 360.	3	0	0.00	2	0	0.00							1	0	0.00
		Drinking Water 50.	3	0	0.00	2	0	0.00							1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water 2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute 3.9	3	1	0.33	2	0	0.00							1	1	1.00
		Drinking Water 5.	3	0	0.00	2	0	0.00							1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water 100.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0102

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
31625 FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00							1	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRLN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0103

NPS Station ID: SLBE0103 Location: LIME LAKE Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: LIME LAKE LIES IN THE SHALDA CREEK WATERSHED. THE WATERSHED LIES OUTSIDE THE PARK BOUNDARY BUT SHALDA CREEK FLOWS THROUGH THE LAKESHORE. WITHIN THE WATERSHED LIME CREEK FLOWS INTO LIME LAKE WHOSE OUTFLOW IS SHETLAND CREEK WHICH FLOWS INTO LITTLE TRAVERSE LAKE WHOSE OUTFLOW IS SHALDA CREEK WHICH THEN FLOWS TO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF LIME LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON GOOD HARBOR BAY MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.894754/ -85.840671 Depth of Water: 0 Elevation: 188 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26089 MICHIGAN/LEELANAU STORET Station ID(s): SLBE_L16 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76
		Date Created: 03/09/96 On/Off RF1: On/Off RF3:

Parameter Inventory for Station: SLBE0103

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-07/27/90	21	19.	17.938	24.	12.1	25.11	5.011	12.2	12.45	23.15	23.98
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-07/27/90	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/27/90-07/27/90	21	270.	278.571	290.	260.	132.857	11.526	262.	270.	290.	290.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-07/27/90	21	6.9	5.5	8.8	0.9	11.086	3.33	0.92	1.65	8.75	8.8
00406 PH, FIELD, STANDARD UNITS SU	07/27/90-07/27/90	21	8.1	7.924	8.3	7.5	0.112	0.335	7.5	7.55	8.2	8.3
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/27/90-07/27/90	21	8.1	7.805	8.3	7.5	0.127	0.356	7.5	7.55	8.2	8.3
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/90-07/27/90	21	0.008	0.016	0.032	0.005	0.	0.011	0.005	0.006	0.028	0.032
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/90-07/27/90	3	142.	144.667	154.	138.	69.333	8.327	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-07/27/90	3	0.3	0.233	0.3	0.1	0.013	0.115	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-07/27/90	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-07/27/90	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/27/90	2	0.85	0.85	1.	0.7	0.045	0.212	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/27/90-07/27/90	3	1.7	1.7	2.	1.4	0.09	0.3	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0103

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	21	8	0.38										21	8	0.38
00406 PH, FIELD	Other-Hi Lim.	9.	21	0	0.00										21	0	0.00
	Other-Lo Lim.	6.5	21	0	0.00										21	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00										3	0	0.00
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	3	0	0.00										3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0104

NPS Station ID: SLBE0104 LAT/LON: 44.897226/ -85.842781

Location: LIME LAKE-CENTRAL BASIN; CLEVELAND TWP, SEC 23

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0705

RF1 Index: 04060104023

RF3 Index: 04060104002500.01

Description:

LIME LAKE IN A 67 FEET DEEP BASIN IN THE CENTRAL PART OF THE LAKE. THE BASIN IS LOCATED IN SECTION 23, CLEVELAND TOWNSHIP. APPROXIMATELY 900 FEET WEST OF THE SUBMERGED ISLAND, LOCATED IN THE CENTRAL LAKE BASIN, AND 1300 FEET NE OF THE BENCHMARK LOCATED ON THE WESTERN LAKE SHORELINE. INLET: INTERMITTANT STREAM ON EAST SHORE. OUTLET: SHETLAND CREEK TO LITTLE TRAVERSE LAKE. THE LAKE IS IN THE SUCKER CREEK BASIN.

Depth of Water: 67

Elevation: 0

RF1 Mile Point: 6.480

RF3 Mile Point: 0.51

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450066 /AC00670.2

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.36

Date Created: 08/18/78

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0104

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/02/78-08/26/80	13	13.2	15.308	23.5	8.5	37.654	6.136	8.7	9.5	22.4	23.3
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/26/80-08/26/80	3	1.4	1.4	1.6	1.2	0.04	0.2	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	05/02/78-08/26/80	2	114.	114.	120.	108.	72.	8.485	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/26/80-08/26/80	3	5.	4.667	5.	4.	0.333	0.577	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/80-08/26/80	9	338.	326.222	362.	283.	1073.944	32.771	283.	291.5	358.	362.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/80-08/26/80	3	310.	318.333	345.	300.	558.333	23.629	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	05/02/78-08/26/80	13	8.4	7.523	11.9	0.8	13.265	3.642	0.96	5.4	10.05	11.86
00400 PH (STANDARD UNITS)	05/02/78-08/26/80	12	8.385	8.256	8.62	7.53	0.106	0.325	7.581	8.15	8.445	8.569
00400 CONVERTED PH (STANDARD UNITS)	05/02/78-08/26/80	12	8.385	8.112	8.62	7.53	0.128	0.358	7.581	8.15	8.445	8.569
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/02/78-08/26/80	12	0.004	0.008	0.03	0.002	0.	0.008	0.003	0.004	0.007	0.027
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/02/78-08/26/80	6	154.	150.167	161.	137.	83.767	9.152	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/26/80-08/26/80	3 ##	1.	1.667	3.	1.	1.333	1.155	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/02/78-08/26/80	6	0.215	0.207	0.25	0.14	0.002	0.041	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/02/78-08/26/80	6	0.01	0.047	0.24	0.004	0.009	0.094	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/26/80-08/26/80	3	0.24	0.293	0.42	0.22	0.012	0.11	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/02/78-08/26/80	6	0.26	0.252	0.37	0.12	0.017	0.13	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/02/78-08/26/80	6	0.003	0.004	0.006	0.002	0.	0.002	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/26/80-08/26/80	3	40.	43.333	50.	40.	33.333	5.774	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/80-08/26/80	3	13.	13.333	14.	13.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/26/80-08/26/80	3	3.	3.	3.	3.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/26/80-08/26/80	3	0.6	0.633	0.7	0.6	0.003	0.058	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/26/80-08/26/80	3	3.	3.	3.	3.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/26/80-08/26/80	3	14.	14.333	16.	13.	2.333	1.528	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	08/26/80-08/26/80	3	3.1	3.767	5.4	2.8	2.023	1.422	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/02/78-08/26/80	6 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0104

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	3	0	0.00	3	0	0.00									
00300	OXYGEN, DISSOLVED	4.	13	3	0.23	10	3	0.30							3	0	0.00
00400	PH	9.	12	0	0.00	9	0	0.00							3	0	0.00
		6.5	12	0	0.00	9	0	0.00							3	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	10.	6	0	0.00	3	0	0.00							3	0	0.00
00940	CHLORIDE, TOTAL IN WATER	860.	3	0	0.00	3	0	0.00									
		250.	3	0	0.00	3	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	3	0	0.00	3	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0105

NPS Station ID: SLBE0105	LAT/LON: 44.902031/ -85.962504	Agency: 11NPSWRD	Date Created: 03/09/96
Location: CRYSTAL RIVER DOWNSTREAM		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/STREAM		STORET Station ID(s): SLBE_S06	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 180	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:

Description:
 SITE IS LOCATED APPROXIMATELY 300 METERS UPSTREAM FROM COUNTY ROAD 675 ON THE WEST SIDE OF THE CULVERTS. THE CHANNEL WIDTH IS APPROXIMATELY 20 METERS AND DEPTHS RANGE UP TO 0.5 METERS. DEAD CEDAR TREES LITTER THE STREAM AND PROTRUDE OUT AT ANGLES THAT RANGE FROM 30 TO 90 DEGREES ON BOTH STREAM BANKS. AS A RESULT THE MAIN FLOW IN THE CHANNEL MAY BE REDUCED. LARGE BEDS OF IRIS SP. AND CHARA SP. WERE FOUND THROUGH THIS REACH. APPROXIMATELY 25% OF THE STREAM WAS SHADED BY THE RIPARIAN VEGETATION WHICH WAS DOMINATED BY CEDARS. SITE WAS USED 1990 - 1993. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0105

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/02/90-09/22/93	29	20.	18.862	25.	6.5	26.891	5.186	10.	16.	23.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/22/93-09/22/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/02/90-09/14/92	24	277.5	276.042	350.	200.	989.085	31.45	232.5	250.	300.	300.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/02/90-09/22/93	26	9.05	9.177	12.5	7.6	1.136	1.066	7.95	8.375	9.85	10.52
00406 PH, FIELD, STANDARD UNITS SU	05/02/90-09/22/93	29	8.5	8.341	8.8	7.4	0.128	0.358	7.9	8.1	8.6	8.8
00406 CONVERTED PH, FIELD, STANDARD UNITS	05/02/90-09/22/93	29	8.5	8.164	8.8	7.4	0.161	0.401	7.9	8.1	8.6	8.8
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/02/90-09/22/93	29	0.003	0.007	0.04	0.002	0.	0.009	0.002	0.003	0.008	0.013
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/02/90-09/14/92	24	124.	124.583	136.	114.	38.08	6.171	118.	118.5	128.	134.
00600 NITROGEN, TOTAL (MG/L AS N)	05/02/90-09/14/92	27 ##	0.2	0.213	0.6	0.05	0.011	0.103	0.14	0.15	0.25	0.32
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/02/90-09/14/92	27	0.3	0.269	0.7	0.05	0.024	0.154	0.1	0.1	0.4	0.42
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/02/90-09/14/92	27 ##	0.05	0.054	0.2	0.005	0.001	0.036	0.005	0.05	0.05	0.1
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/02/90-09/14/92	27 ##	0.005	0.006	0.02	0.003	0.	0.005	0.003	0.004	0.005	0.019
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	05/31/90-09/20/90	2	49.	49.	58.	40.	162.	12.728	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/28/91-09/14/92	14	0.65	0.693	1.8	0.3	0.138	0.371	0.35	0.4	0.825	1.35
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/12/90-09/14/92	23	0.5	0.591	1.2	0.3	0.087	0.295	0.3	0.3	0.7	1.1

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0105

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	26	0	0.00	11	0	0.00							15	0	0.00
00406	PH, FIELD														15	0	0.00
	Other-Hi Lim.	9.	29	0	0.00	14	0	0.00									
	Other-Lo Lim.	6.5	29	0	0.00	14	0	0.00							15	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.														14	0	0.00
	Drinking Water	10.	27	0	0.00	13	0	0.00									
82078	TURBIDITY, FIELD														10	0	0.00
	Other-Hi Lim.	50.	23	0	0.00	13	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0106

NPS Station ID: SLBE0106
 Location: CRYSTAL RIVER NR GLEN ARBOR, MICHIGAN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104021
 RF3 Index: 04060104000404.68
 Description:

LAT/LON: 44.902781/ -85.962782

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 1.110
 RF3 Mile Point: 8.58

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 04126802
 Within Park Boundary: Yes

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.90
 Distance from RF3: 0.40

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: SLBE0106

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/79-10/27/81	3	11.	12.5	19.	7.5	34.75	5.895	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/80-05/14/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/16/79-10/27/81	3	54.	39.667	60.	5.	910.333	30.172	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/16/79-10/27/81	3	0.5	0.633	1.	0.4	0.103	0.321	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/16/79-08/16/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/79-10/27/81	3	260.	267.333	288.	254.	329.333	18.148	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/16/79-10/27/81	3	10.6	10.7	11.6	9.9	0.73	0.854	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/16/79-10/27/81	3	97.	100.667	108.	97.	40.333	6.351	**	**	**	**
00400 PH (STANDARD UNITS)	08/16/79-10/27/81	3	8.2	8.2	8.4	8.	0.04	0.2	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/16/79-10/27/81	3	8.2	8.17	8.4	8.	0.041	0.203	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/16/79-10/27/81	3	0.006	0.007	0.01	0.004	0.	0.003	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/27/81-10/27/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/81-10/27/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/16/79-05/14/80	2	1.4	1.4	1.8	1.	0.32	0.566	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/16/79-05/14/80	2	140.5	140.5	150.	131.	180.5	13.435	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/16/79-05/14/80	2	166.	166.	180.	152.	392.	19.799	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/16/79-05/14/80	2	2.	2.	4.	0.	8.	2.828	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-10/27/81	3 ##	0.005	0.003	0.005	0.	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-05/14/80	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/16/79-08/16/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/79-10/27/81	3	0.04	0.047	0.08	0.02	0.001	0.031	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/16/79-10/27/81	3	0.005	0.008	0.02	0.	0.	0.01	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/14/80-10/27/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/16/79-10/27/81	3	140.	136.667	140.	130.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/16/79-05/14/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/16/79-10/27/81	3	33.	33.333	36.	31.	6.333	2.517	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/79-10/27/81	3	13.	13.	13.	13.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/16/79-10/27/81	3	2.9	2.833	3.1	2.5	0.093	0.306	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/16/79-10/27/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/16/79-10/27/81	3	4.	4.333	5.	4.	0.333	0.577	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	08/16/79-08/16/79	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/16/79-10/27/81	3	0.5	0.467	0.6	0.3	0.023	0.153	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/16/79-10/27/81	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/16/79-10/27/81	3	11.	10.333	12.	8.	4.333	2.082	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/16/79-10/27/81	3	0.5	0.467	0.5	0.4	0.003	0.058	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0106

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/79-10/27/81	3	6.	5.9	6.1	5.6	0.07	0.265	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/16/79-10/27/81	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/16/79-10/27/81	3	30.	30.	40.	20.	100.	10.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/16/79-10/27/81	3 ##	1.	1.5	3.	0.5	1.75	1.323	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/16/79-10/27/81	3 ##	0.5	1.167	3.	0.	2.583	1.607	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/16/79-10/27/81	3	5.	3.333	5.	0.	8.333	2.887	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/16/79-10/27/81	3	1.	2.	5.	0.	7.	2.646	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/79-10/27/81	3	1.	1.5	3.	0.5	1.75	1.323	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/16/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/16/79-10/27/81	3	8.	10.	20.	2.	84.	9.165	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/14/80-10/27/81	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01146	SELENIUM, SUSPENDED (UG/L AS SE)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/16/79-08/16/79	1	33.	33.	33.	33.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/16/79-08/16/79	1	1.519	1.519	1.519	1.519	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			33.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79	1	65.	65.	65.	65.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79	1	1.813	1.813	1.813	1.813	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			65.								
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/16/79-10/27/81	3	153.	151.	155.	145.	28.	5.292	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/79-10/27/81	3	150.	151.333	161.	143.	82.333	9.074	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/16/79-10/27/81	3	22.3	15.927	23.4	2.08	144.1	12.004	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/79-10/27/81	3	0.21	0.207	0.21	0.2	0.	0.006	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/16/79-05/14/80	2	0.145	0.145	0.2	0.09	0.006	0.078	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/16/79-05/14/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/16/79-10/27/81	3 ##	0.05	0.117	0.25	0.05	0.013	0.115	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0106

Parameter	Std. Type	Std. Value	Total			Exceed			Prop.			-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00									1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	2	0	0.00									1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00									1	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00									1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00														
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00														
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	2	0	0.00												1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00									1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00														
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00									1	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00									1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00									1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0106

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute 22.	1	0	0.00	1	0	0.00									
	Drinking Water	200.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute 860.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	250.	3	0	0.00	2	0	0.00							1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water 250.	3	0	0.00	2	0	0.00							1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water 4.	3	0	0.00	2	0	0.00							1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute 360.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water 2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute 3.9	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5.	3	0	0.00	2	0	0.00							1	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water 100.	3	0	0.00	2	0	0.00							1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute 82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075	SILVER, DISSOLVED	Fresh Acute 4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute 120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute 20.	2	0	0.00	1	0	0.00							1	0	0.00
	Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute 20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim. 200.	1	0	0.00	1	0	0.00									
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute 3.	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute 2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute 2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute 0.6	1	0	0.00	1	0	0.00									
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute 1050.	1	0	0.00	1	0	0.00									
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute 1.1	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute 2.5	1	0	0.00	1	0	0.00									
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute 0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute 0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute 0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute 0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water 70.	1	0	0.00	1	0	0.00									
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water 50.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water 44.	2	0	0.00	1	0	0.00							1	0	0.00
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water 3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute 2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0107

NPS Station ID: SLBE0107
 Location: CRYSTAL RIVER DOWNSTREAM 95
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.903253/ -85.975587

Depth of Water: 0
 Elevation: 180

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S21
 Within Park Boundary: No

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED ON THE DOWNSTREAM SIDE OF THE COUNTY ROAD 675 BRIDGE THAT CROSSES CRYSTAL RIVER NEAREST TO LAKE MICHIGAN. SITE WAS USED FOR SAMPLING BEGINNING IN 1995. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0107

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/95-08/10/95	1	26.5	26.5	26.5	26.5	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/10/95-08/10/95	1	265.	265.	265.	265.	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/10/95-08/10/95	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	08/10/95-08/10/95	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	08/10/95-08/10/95	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/95-08/10/95	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0107

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00406 PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0108

NPS Station ID: SLBE0108
 Location: CRYSTAL RIVER DOWNSTREAM 94
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.903365/ -85.963392

Depth of Water: 0
 Elevation: 180

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S07
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED DOWNSTREAM OF COUNTY ROAD 675 ABOVE A SMALL CANOE LANDING. THE STREAM AT THIS POINT IS RELATIVELY WIDE AND SHALLOW. THE STREAM IS SOMEWHAT SHADED BY RIPARIAN VEGETATION AND THE SUBSTRATE IS PRIMARILY GRAVEL. SITE WAS USED FOR SAMPLING IN 1994. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0108

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/30/94-06/30/94	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	06/30/94-06/30/94	1	223.	223.	223.	223.	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/30/94-06/30/94	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	06/30/94-06/30/94	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	06/30/94-06/30/94	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/30/94-06/30/94	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0108

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406 PH, FIELD	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0109

NPS Station ID: SLBE0109
 Location: CRYSTAL RIVER UPSTREAM
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.903393/ -85.975532

Depth of Water: 0
 Elevation: 181

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S08
 Within Park Boundary: No

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED APPROXIMATELY 100 FEET DOWNSTREAM OF THE GLEN ARBOR DAM AROUND THE FIRST BEND. THE CHANNEL WIDTH IN THIS STRETCH OF THE RIVER IS APPROXIMATELY 12 METERS AND DEPTH IS APPROXIMATELY 0.7 METERS. LARGE PATCHES OF SAND AND GRAVEL COMPRISED THE MAJORITY OF THE EXPOSED SUBSTRATES. RIPARIAN VEGETATION IN THIS AREA CONSISTED OF BIRCH ALDERS MAPLE AND CEDAR TREES. IN GENERAL CANOPY COVERED APPROXIMATELY 50% AND DOWNED DEAD CEDAR TREES LITTERED THE WEST SIDE OF THE CHANNEL. SITE IS LOCATED ON THE GLRN ARBOR MICHIGAN 7.5 MINUTE SERIES(TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0109

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/02/90-08/10/95	30	21.	18.967	26.	6.5	26.809	5.178	9.85	16.	22.25	24.9
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-08/10/95	26	275.	281.269	425.	230.	1244.685	35.28	250.	265.	300.	300.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/02/90-08/10/95	27	9.5	9.659	14.	7.8	2.019	1.421	8.06	8.9	10.1	12.04
00406 PH, FIELD, STANDARD UNITS SU	04/24/90-08/10/95	31	8.5	8.387	8.9	7.6	0.09	0.3	7.92	8.2	8.6	8.7
00406 CONVERTED PH, FIELD, STANDARD UNITS	04/24/90-08/10/95	31	8.5	8.267	8.9	7.6	0.105	0.324	7.92	8.2	8.6	8.7
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/90-08/10/95	31	0.003	0.005	0.025	0.001	0.	0.005	0.002	0.003	0.006	0.012
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/02/90-09/14/92	24	123.	124.25	136.	116.	36.283	6.024	116.	120.5	129.5	134.
00600 NITROGEN, TOTAL (MG/L AS N)	05/02/90-11/14/90	14 ##	0.2	0.257	0.5	0.15	0.014	0.119	0.15	0.188	0.313	0.5
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/02/90-11/14/90	14	0.3	0.329	0.6	0.1	0.021	0.144	0.1	0.275	0.425	0.55
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/02/90-11/14/90	14 ##	0.05	0.057	0.1	0.05	0.	0.018	0.05	0.05	0.05	0.1
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/02/90-11/14/90	14 ##	0.005	0.008	0.02	0.005	0.	0.004	0.005	0.005	0.01	0.015
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/24/90-04/24/90	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	04/24/90-04/24/90	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	12/03/90-12/03/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	12/03/90-12/03/90	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	04/24/90-04/24/90	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	04/24/90-04/24/90	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	04/24/90-04/24/90	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	12/03/90-12/03/90	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-11/05/91	4	13.5	13.25	15.	11.	4.25	2.062	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/03/90	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/24/90-12/03/90	2	6.6	6.6	6.7	6.5	0.02	0.141	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/24/90-04/24/90	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/03/90-12/03/90	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/03/90-11/05/91	3 ##	5.	13.333	30.	5.	208.333	14.434	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/03/90-12/03/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/03/90-11/05/91	3 ##	5.	23.333	60.	5.	1008.333	31.754	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	12/03/90-12/03/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/03/90-12/03/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/14/90-09/14/92	17	0.6	0.747	1.8	0.3	0.145	0.381	0.38	0.5	0.9	1.4
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/03/90-12/03/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	07/12/90-09/14/92	23	0.6	0.648	1.2	0.2	0.074	0.271	0.34	0.5	0.8	1.16
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-11/05/91	4	2.7	2.5	3.	1.6	0.387	0.622	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0109

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	27	0	0.00	11	0	0.00						16	0	0.00
00406	PH, FIELD	Other-Hi Lim.	9.	31	0	0.00	14	0	0.00						17	0	0.00
		Other-Lo Lim.	6.5	31	0	0.00	14	0	0.00						17	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	8	0	0.00						6	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00			1	0	0.00				1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00									1	0	0.00
		Drinking Water	50.	1	0	0.00									1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00			1	0	0.00						
		Drinking Water	50.	1	0	0.00			1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00									1	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00									1	0	0.00
		Drinking Water	4.	1	0	0.00									1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00			1	0	0.00						
		Drinking Water	4.	0 &	0	0.00											

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0109

Parameter	Std. Type	Std. Value	Total			8/01-11/30			12/01-2/29			3/01-4/14			4/15-7/31		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01025	CADMIUM, DISSOLVED	Fresh Acute 3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute 3.9	1	0	0.00												
	Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water 100.	1	0	0.00										1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water 100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute 18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01042	COPPER, TOTAL	Fresh Acute 18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute 82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00										1	0	0.00
01051	LEAD, TOTAL	Fresh Acute 82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute 1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute 1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute 4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute 120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
01092	ZINC, TOTAL	Fresh Acute 120.	1	0	0.00				1	0	0.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute 20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute 2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute 2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim. 50.	23	0	0.00	13	0	0.00							10	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute 860000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	250000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0110

NPS Station ID: SLBE0110	LAT/LON: 44.903559/ -85.954532	Agency: 11NPSWRD	Date Created: 03/09/96
Location: TUCKER LAKE NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L32	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 182	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
TUCKER LAKE LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ALONG THE WESTERN SHORELINE OF THE LAKE NEAR WHERE THE ACCESS ROAD TERMINATES. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0110

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.146	0.146	0.146	0.146	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0110

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0111

NPS Station ID: SLBE0111 Location: TUCKER LAKE Station Type: /TYPA/AMBNT/LAKE RMI-Indexes: RMI-Miles: HUC: 04060104 Major Basin: MICHIGAN Minor Basin: PLATTE RIVER RF1 Index: 04060104 RF3 Index: 04060104000500.00 Description: TUCKER LAKE LIES IN THE CRYSTAL RIVER WATERSHED WHICH HAS SUBSTANTIAL GROUNDWATER MOVEMENT. SURFACE WATER FLOWS FROM LITTLE GLEN LAKE THROUGH BIG GLEN LAKE AND FISHER LAKE WHERE IT IS JOINED BY THE OUTFLOW OF TUCKER LAKE AND THEN FLOWS TO LAKE MICHIGAN VIA THE CRYSTAL RIVER. THE SITE IS LOCATED IN THE DEEPEST AREA OF TUCKER LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.	LAT/LON: 44.903754/ -85.953615 Depth of Water: 0 Elevation: 182 RF1 Mile Point: 0.000 RF3 Mile Point: 5.47	Agency: 11NPSWRD FIPS State/County: 26089 MICHIGAN/LEELANAU STORET Station ID(s): SLBE_L09 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.70 Distance from RF3: 0.76	Date Created: 03/09/96 On/Off RF1: On/Off RF3:

Parameter Inventory for Station: SLBE0111

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	33	24.	24.173	27.	22.	1.795	1.34	22.2	23.4	25.	26.48
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/24/93-08/09/95	15	26.	24.933	26.	22.	3.352	1.831	22.	22.	26.	26.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	6	2.45	2.567	3.6	2.	0.299	0.547	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	2	266.	266.	300.	232.	2312.	48.083	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	33	8.6	8.291	12.	0.7	4.951	2.225	5.8	8.15	9.25	9.96
00406 PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	7	8.5	8.494	8.7	8.1	0.044	0.209	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/25/90-08/09/95	7	8.5	8.446	8.7	8.1	0.046	0.215	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-08/09/95	7	0.003	0.004	0.008	0.002	0.	0.002	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/25/90-08/05/92	3	120.	121.333	126.	118.	17.333	4.163	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-08/05/92	3	0.7	0.68	1.1	0.24	0.185	0.43	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/05/92	3 ##	0.025	0.03	0.05	0.015	0.	0.018	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	5	0.01	0.011	0.021	0.005	0.	0.006	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-08/02/94	4	2.95	3.85	7.3	2.2	5.697	2.387	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/05/92	3	1.	1.133	1.5	0.9	0.103	0.321	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0111

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	33	2	0.06	27	2	0.07							6	0	0.00
00406	PH, FIELD														1	0	0.00
	Other-Hi Lim.	9.	7	0	0.00	6	0	0.00									
	Other-Lo Lim.	6.5	7	0	0.00	6	0	0.00							1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.																
	Drinking Water	10.	3	0	0.00	2	0	0.00							1	0	0.00
82078	TURBIDITY, FIELD														1	0	0.00
	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0112

NPS Station ID: SLBE0112 LAT/LON: 44.904448/ -85.807504

Location: CRYSTAL RIVER AT M-22 BR; GLEN ARBOR TWP, SEC 23

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0703

RF1 Index: 04060104

RF3 Index: 04060104000200.00

Description:

TROUT WATER SAMPLING PROGRAM, CRYSTAL RIVER, M 22 ONE MILE EAST OF GLEN ARBOR, GLEN ARBOR TWP., T29N, R14W, SEC. 23.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 13.43

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450013 /TR0019

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.06

Date Created: / /

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0112

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/68-09/28/93	4	13.5	14.75	24.	8.	44.917	6.702	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/68-07/23/68	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY CFS	07/23/68-04/29/69	3	21.	21.	21.	21.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/93-09/28/93	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/93-09/28/93	1	265.	265.	265.	265.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/23/68-04/29/69	3	10.4	10.3	12.	8.5	3.07	1.752	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	07/23/68-04/29/69	3	1.7	1.867	2.6	1.3	0.443	0.666	**	**	**	**
00400 PH (STANDARD UNITS)	07/23/68-09/28/93	4	8.16	8.13	8.3	7.9	0.03	0.174	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/23/68-09/28/93	4	8.156	8.103	8.3	7.9	0.031	0.177	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/68-09/28/93	4	0.007	0.008	0.013	0.005	0.	0.003	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/23/68-09/28/93	4	130.	130.75	145.	118.	122.25	11.057	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	09/28/93-09/28/93	1	172.	172.	172.	172.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/28/93-09/28/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/23/68-09/28/93	4	0.	0.003	0.012	0.	0.	0.006	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/68-09/28/93	2 ##	0.005	0.005	0.01	0.001	0.	0.007	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/23/68-09/28/93	4	0.105	0.103	0.2	0.	0.013	0.113	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/93-09/28/93	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/93-09/28/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/23/68-09/28/93	4	0.025	0.025	0.04	0.008	0.	0.014	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	09/28/93-09/28/93	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	09/28/93-09/28/93	1	135.	135.	135.	135.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	09/28/93-09/28/93	1	33.5	33.5	33.5	33.5	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/28/93-09/28/93	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	09/28/93-09/28/93	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	09/28/93-09/28/93	1	0.64	0.64	0.64	0.64	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	04/29/69-09/28/93	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	09/28/93-09/28/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	09/28/93-09/28/93	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	09/28/93-09/28/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	09/28/93-09/28/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	09/28/93-09/28/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	09/28/93-09/28/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	09/28/93-09/28/93	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	09/28/93-09/28/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0112

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/93-09/28/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	09/28/93-09/28/93	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/28/93-09/28/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/28/93-09/28/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	09/28/93-09/28/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/28/93-09/28/93	1	6.	6.	6.	6.	0.	0.	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/28/93-09/28/93	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	09/28/93-09/28/93	1 ##	4.	4.	4.	4.	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
01152	TITANIUM, TOTAL (UG/L AS TI)	09/28/93-09/28/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/23/68-04/29/69	3 ##	50.	66.667	100.	50.	833.333	28.868	**	**	**
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/23/68-04/29/69	3 ##	1.699	1.799	2.	1.699	0.03	0.174	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	07/23/68-04/29/69	3 ##	50.	62.996	100.	50.	833.333	28.868	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/68-04/29/69	3 ##	5.	20.	50.	5.	675.	25.981	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/68-04/29/69	3 ##	0.699	1.032	1.699	0.699	0.333	0.577	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/68-04/29/69	3 ##	50.	62.996	100.	50.	833.333	28.868	**	**	**
47004	SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	09/28/93-09/28/93	1	172.	172.	172.	172.	0.	0.	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/68-10/07/68	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/28/93-09/28/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0112

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00								
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00						2	0	0.00
00400	PH	Other-Hi Lim.	9.	4	0	0.00	2	0	0.00						2	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	2	0	0.00						2	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00	2	0	0.00								
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00	2	0	0.00						2	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	250.	2	0	0.00	1	0	0.00						1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00								
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00								
		Drinking Water	4.	1	0	0.00	1	0	0.00								
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00								
		Drinking Water	5.	1	0	0.00	1	0	0.00								
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00								
		Drinking Water	100.	1	0	0.00	1	0	0.00								
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00								
		Drinking Water	1300.	1	0	0.00	1	0	0.00								
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00								
		Drinking Water	15.	1	0	0.00	1	0	0.00								
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00								
		Drinking Water	100.	1	0	0.00	1	0	0.00								
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00								
		Drinking Water	100.	1	0	0.00	1	0	0.00								
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00								
		Drinking Water	5000.	1	0	0.00	1	0	0.00								
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00								
		Drinking Water	6.	1	0	0.00	1	0	0.00								
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0112

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT.MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	3	0	0.00	1	0	0.00							2	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	1	0	0.00							2	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0113

NPS Station ID: SLBE0113	LAT/LON: 44.911392/ -86.034448	Agency: 21MICH	Date Created: / /
Location: L MICH, NEAR GLEN HAVEN; GLEN ARBOR TWP, SEC 17		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): 450004	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MAJ BASIN: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: OFF D H DAY STATE PARK		ECO Region:	
RF1 Index: 04060104004	RF1 Mile Point: 3.310	Distance from RF1: 0.00	On/Off RF1: OFF
RF3 Index: 04060104026000.00	RF3 Mile Point: 0.73	Distance from RF3: 0.06	On/Off RF3:
Description:			
LAKE MICHIGAN (NEAR GLEN HAVEN) AT D. H. DAY STATE PARK, 50 FT OFFSHORE OPPOSITE BOARDWALK AT NORTH LIMIT, LEELANAU COUNTY, T29N, R14W, SECTION 17, GLEN ARBOR TOWNSHIP			
BACTERIA INFORMATION IS FOUND HERE. GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL			

Parameter Inventory for Station: SLBE0113

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	17.	16.458	25.	10.	14.259	3.776	10.5	14.	19.	21.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	22.	21.979	29.	13.	26.271	5.126	14.5	17.25	27.	28.
00032 CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	15.	31.875	100.	0.	1286.984	35.875	0.	1.25	58.75	95.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	7.5	7.75	20.	1.	21.413	4.627	2.5	4.25	10.	14.5
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29	100.	982.759	11000.	50.	7048799.261	2654.957	50.	50.	500.	2500.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29	2.	2.257	4.041	1.699	0.476	0.69	1.699	1.699	2.69	3.398
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			180.55								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	6.897	40.	5.	48.953	6.997	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.761	1.602	0.699	0.041	0.203	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.771								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0113

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	3	0.10	10	3	0.30							19	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	0	0.00	10	0	0.00							19	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0114

NPS Station ID: SLBE0114	LAT/LON: 44.911948/ -86.037227	Agency: 21MICH	Date Created: / /
Location: L MICH, NEAR GLEN HAVEN; GLEN ARBOR TWP, SEC 17		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): 450006	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060200	Depth of Water: 0	Aquifer:	
Major Basin: MAJ BASIN: LAKE MICHIGAN	Elevation: 0	Water Body Id:	
Minor Basin: OFF D H DAY STATE PARK		ECO Region:	
RF1 Index: 04060200	RF1 Mile Point: 0.000	Distance from RF1: 2.90	On/Off RF1:
RF3 Index: 04060104000404.68	RF3 Mile Point: 8.97	Distance from RF3: 0.04	On/Off RF3:
Description:			
LAKE MICHIGAN (NEAR GLEN HAVEN) AT D. H. DAY STATE PARK, 50 FT OFFSHORE OF SOUTH BEACH LIMITS, LEELANAU COUNTY, T29N, R14W, SECTION 17, GLEN ARBOR TOWNSHIP GREAT LAKES SHORELINE DATA ARE TAKEN AT THIS STATION. HISTORICAL BACTERIA INFORMATION IS FOUND HERE.			

Parameter Inventory for Station: SLBE0114

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	17.	16.542	25.	10.	13.303	3.647	11.5	14.	19.	21.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-08/21/72	24	22.	21.979	29.	13.	26.271	5.126	14.5	17.25	27.	28.
00032 CLOUD COVER (PERCENT)	06/16/69-08/21/72	24	17.5	32.292	100.	0.	1280.824	35.789	0.	1.25	58.75	95.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-08/21/72	24	7.5	7.75	20.	1.	21.413	4.627	2.5	4.25	10.	14.5
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-08/21/72	29 ##	50.	287.931	4300.	50.	640295.567	800.185	50.	50.	100.	700.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	06/17/68-08/21/72	29 ##	1.699	1.99	3.633	1.699	0.236	0.486	1.699	1.699	2.	2.845
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			97.611								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	5.	5.517	20.	5.	7.759	2.785	5.	5.	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-08/21/72	29 ##	0.699	0.72	1.301	0.699	0.012	0.112	0.699	0.699	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.245								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0114

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	29	1	0.03	10	1	0.10							19	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29	0	0.00	10	0	0.00							19	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0115

NPS Station ID: SLBE0115 LAT/LON: 44.912227/ -86.036393

Location: L MICH, NEAR GLEN HAVEN; GLEN ARBOR TWP, SEC 17

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060200

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: OFF D H DAY STATE PARK

RF1 Index: 04060200

RF3 Index: 04060104000404.68

Description:

LAKE MICHIGAN (NEAR GLEN HAVEN) AT D. H. DAY STATE PARK, 50 FT OFFSHORE OF BEACH MIDPOINT, LEELANAU COUNTY, T29N, R14W, SECTION 17,

GLEN ARBOR TOWNSHIP

BACTERIA INFORMATION IS FOUND HERE.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 9.07

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450005

Within Park Boundary: Yes

Date Created: / /

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.03

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0115

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/69-07/10/74	26	17.	16.615	25.	10.	13.206	3.634	11.4	14.	19.	20.6
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/69-06/21/73	25	22.	21.82	29.	13.	25.81	5.08	14.6	17.5	27.	28.
00032 CLOUD COVER (PERCENT)	06/16/69-06/21/73	25	20.	33.6	100.	0.	1307.75	36.163	0.	1.5	65.	94.
00035 WIND VELOCITY (MILES PER HOUR)	06/16/69-06/21/73	25	7.	7.48	20.	1.	22.343	4.727	1.6	3.5	10.	14.4
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	06/17/68-06/21/73	30 ##	50.	285.	3600.	50.	457612.069	676.47	50.	50.	200.	950.
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	06/17/68-06/21/73	30 ##	1.699	2.01	3.556	1.699	0.26	0.509	1.699	1.699	2.301	2.97
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3	GEOMETRIC MEAN =			102.438								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	5.	5.645	20.	5.	7.903	2.811	5.	5.	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/68-07/10/74	31 ##	0.699	0.728	1.301	0.699	0.014	0.119	0.699	0.699	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.347								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0115

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31504 COLIFORM,TOT,MEMBRANE FILTR,IMMED. LES-E	Other-Hi Lim.	1000.	30	3	0.10	10	1	0.10							20	2	0.10
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	31	0	0.00	10	0	0.00							21	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0115

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	5.	5.	5.	0.	0.	5.	5.	5.	5.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	10 ##	0.699	0.699	0.699	0.	0.	0.699	0.699	0.699	0.699
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		5.								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0115

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	5.	5.952	20.	11.548	3.398	5.	5.	5.	9.
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	06/17/68-07/10/74	21 ##	0.699	0.742	1.301	0.021	0.144	0.699	0.699	0.699	0.94
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		5.52								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0116

NPS Station ID: SLBE0116 LAT/LON: 44.913060/ -85.881948

Location: SCHOOL LK IN SO-CENT BASIN, CLEVELAND TWP, SEC 16

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0703

RF1 Index: 04060104023

RF3 Index: 04060104003900.00

Description:

SCHOOL LAKE IN A 6 FOOT DEEP BASIN IN THE SOUTH-CENTRAL PORTION OF THE LAKE. THE BASIN IS LOCATED IN SECTION 16, T29N, R3W, CLEVELAND TOWNSHIP
LEELANAU COUNTY. SAMPLING SITE IS 1400 FEET EAST OF ENTRANCE TO SMALL BAY ON SOUTHWEST SHORE. INLET: NONE. OUTLET: STREAM TO BASS LAKE

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450069 /AC00175.2

Within Park Boundary: Yes

Date Created: 12/13/80

Depth of Water: 6

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 3.50

Distance from RF3: 0.01

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0116

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/80-08/26/80	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/26/80-08/26/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/26/80-08/26/80	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/26/80-08/26/80	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/80-08/26/80	1	195.	195.	195.	195.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/80-08/26/80	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/26/80-08/26/80	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/26/80-08/26/80	1	8.78	8.78	8.78	8.78	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/26/80-08/26/80	1	8.78	8.78	8.78	8.78	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/80-08/26/80	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/26/80-08/26/80	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/26/80-08/26/80	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/26/80-08/26/80	1	0.72	0.72	0.72	0.72	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/80-08/26/80	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/26/80-08/26/80	1	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/80-08/26/80	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/26/80-08/26/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/26/80-08/26/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/80-08/26/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/26/80-08/26/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/26/80-08/26/80	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/26/80-08/26/80	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/26/80-08/26/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	08/26/80-08/26/80	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/26/80-08/26/80	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/26/80-08/26/80	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0116

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	4.	1	0	0.00	1	0	0.00									
00400	PH	9.	1	0	0.00	1	0	0.00									
		6.5	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	860.	1	0	0.00	1	0	0.00									
		250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0117

NPS Station ID: SLBE0117
 Location: SCHOOL LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.916782/ -85.878198

Depth of Water: 0
 Elevation: 189

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L07
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SCHOOL LAKE LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. THE SITE IS LOCATED IN THE DEEPEST AREA OF SCHOOL LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0117

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/90-08/09/95	22	22.	23.182	27.	21.	4.37	2.09	21.	21.5	24.625	27.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/02/93-08/09/95	13	23.	24.615	30.	23.	9.423	3.07	23.	23.	26.5	30.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/26/90-08/09/95	8	1.5	1.625	2.	1.5	0.054	0.231	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	2	161.	161.	185.	137.	1152.	33.941	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/26/90-08/09/95	22	9.2	8.955	11.6	0.4	4.663	2.159	7.77	8.575	9.55	11.14
00406 PH, FIELD, STANDARD UNITS SU	07/26/90-08/09/95	10	8.9	8.99	9.3	8.7	0.032	0.179	8.72	8.9	9.125	9.29
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/26/90-08/09/95	10	8.9	8.958	9.3	8.7	0.033	0.182	8.72	8.9	9.125	9.29
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/90-08/09/95	10	0.001	0.001	0.002	0.001	0.	0.	0.001	0.001	0.001	0.002
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/26/90-08/06/92	3	82.	85.667	98.	77.	120.333	10.97	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/26/90-08/06/92	3	0.8	0.69	0.8	0.47	0.036	0.191	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/26/90-08/06/92	3 ##	0.025	0.045	0.1	0.01	0.002	0.048	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/26/90-08/09/95	7	0.019	0.022	0.06	0.01	0.	0.017	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/26/90-08/02/94	4	1.3	1.85	3.9	0.9	1.93	1.389	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/26/90-08/06/92	3	1.5	1.4	1.8	0.9	0.21	0.458	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0117

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	22	1	0.05	18	1	0.06							4	0	0.00
00406	PH, FIELD														1	0	0.00
	Other-Hi Lim.	9.	10	4	0.40	9	4	0.44									
	Other-Lo Lim.	6.5	10	0	0.00	9	0	0.00							1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.														1	0	0.00
	Drinking Water	10.	3	0	0.00	2	0	0.00									
82078	TURBIDITY, FIELD														1	0	0.00
	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0118

NPS Station ID: SLBE0118	LAT/LON: 44.917115/ -85.877726	Agency: 11NPSWRD	Date Created: 03/09/96
Location: SCHOOL LAKE NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L30	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 189	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
SCHOOL LAKE LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ON THE NORTHEASTERN SHORELINE NEAR THE BOAT RAMP. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0118

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.052	0.052	0.052	0.052	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0118

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0119

NPS Station ID: SLBE0119	LAT/LON: 44.920004/ -85.885559	Agency: 112WRD	Date Created: 05/17/80
Location: SCHOOL LAKE NR GLEN ARBOR, MICHIGAN		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/STREAM		STORET Station ID(s): 445512085530801	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:		Aquifer:	
HUC: 04060104	Depth of Water: 0	Water Body Id:	
Major Basin:	Elevation: 0	ECO Region:	
Minor Basin:		Distance from RF1: 0.50	On/Off RF1:
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF3: 0.00	On/Off RF3:
RF3 Index: 04060104038000.61	RF3 Mile Point: 0.61		
Description:			

Parameter Inventory for Station: SLBE0119

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/79-10/27/81	3	11.	11.333	17.	6.	30.333	5.508	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/27/81-10/27/81	1	234.	234.	234.	234.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/16/79-10/27/81	3	0.7	0.733	1.	0.5	0.063	0.252	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/16/79-08/16/79	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/79-10/27/81	3	234.	230.667	248.	210.	369.333	19.218	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/16/79-10/27/81	3	9.8	10.9	13.2	9.7	3.97	1.992	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/16/79-10/27/81	3	102.	99.667	107.	90.	76.333	8.737	**	**	**	**
00400 PH (STANDARD UNITS)	08/16/79-10/27/81	3	8.6	8.5	8.8	8.1	0.13	0.361	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/16/79-10/27/81	3	8.6	8.396	8.8	8.1	0.146	0.382	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/16/79-10/27/81	3	0.003	0.004	0.008	0.002	0.	0.003	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/27/81-10/27/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/81-10/27/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/16/79-05/14/80	2	0.5	0.5	0.6	0.4	0.02	0.141	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/16/79-05/14/80	2	123.	123.	126.	120.	18.	4.243	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/16/79-05/14/80	2	122.5	122.5	140.	105.	612.5	24.749	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/16/79-05/14/80	2	15.	15.	24.	6.	162.	12.728	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-10/27/81	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-05/14/80	2	0.27	0.27	0.54	0.	0.146	0.382	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/79-10/27/81	3	0.02	0.173	0.5	0.	0.08	0.283	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/16/79-10/27/81	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/14/80-10/27/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/16/79-10/27/81	3	120.	116.667	120.	110.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/16/79-05/14/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/16/79-10/27/81	3	28.	29.667	34.	27.	14.333	3.786	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/79-10/27/81	3	9.8	10.467	12.	9.6	1.773	1.332	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/16/79-10/27/81	3	1.6	1.833	2.4	1.5	0.243	0.493	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/16/79-10/27/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/16/79-10/27/81	3	3.	3.333	4.	3.	0.333	0.577	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/16/79-10/27/81	3	1.	1.067	1.2	1.	0.013	0.115	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/16/79-10/27/81	3	4.	4.	5.	3.	1.	1.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/16/79-10/27/81	3	7.	7.	8.	6.	1.	1.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/16/79-10/27/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/16/79-10/27/81	3	5.3	4.9	9.1	0.3	19.48	4.414	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/16/79-10/27/81	3	1.	1.667	3.	1.	1.333	1.155	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	08/16/79-10/27/81	3	20.	16.667	20.	10.	33.333	5.774	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0119

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/16/79-10/27/81	3 ##	0.5	0.5	1.	0.	0.25	0.5	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/16/79-10/27/81	3 ##	1.	1.5	3.	0.5	1.75	1.323	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/16/79-10/27/81	3	5.	5.333	10.	1.	20.333	4.509	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/16/79-10/27/81	3	1.	2.	5.	0.	7.	2.646	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/79-10/27/81	3	1.	1.167	2.	0.5	0.583	0.764	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/16/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/16/79-10/27/81	3	10.	10.667	20.	2.	81.333	9.018	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/16/79-10/27/81	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79			0.5							
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/16/79-10/27/81	3	141.	139.	146.	130.	67.	8.185	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/79-10/27/81	3	133.	132.333	134.	130.	4.333	2.082	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/27/81-10/27/81	1	92.2	92.2	92.2	92.2	0.	0.	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/79-10/27/81	3	0.19	0.19	0.2	0.18	0.	0.01	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/16/79-05/14/80	2	1.2	1.2	2.4	0.	2.88	1.697	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/16/79-05/14/80	2	0.015	0.015	0.03	0.	0.	0.021	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/16/79-10/27/81	3 ##	0.05	0.117	0.25	0.05	0.013	0.115	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0119

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00						1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	2	0	0.00						1	0	0.00
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00						1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00						1	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	2	0	0.00						1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00						1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00						1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	1	0	0.00	1	0	0.00								
		Drinking Water	200.	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00						1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	50.	3	0	0.00	2	0	0.00						1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0119

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01005 BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5.	3	0	0.00	2	0	0.00							1	0	0.00
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0120

NPS Station ID: SLBE0120
 Location: LITTLE TRAVERSE LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.923059/ -85.841142

Depth of Water: 0
 Elevation: 181

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L17
 Within Park Boundary: No

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

LITTLE TRAVERSE LAKE LIES IN THE SHALDA CREEK WATERSHED. THE WATERSHED LIES OUTSIDE THE PARK BOUNDARY BUT SHALDA CREEK FLOWS THROUGH THE LAKESHORE. WITHIN THE WATERSHED LIME CREEK FLOWS INTO LIME LAKE WHOSE OUTFLOW IS SHETLAND CREEK WHICH FLOWS INTO LITTLE TRAVERSE LAKE WHOSE OUTFLOW IS SHALDA CREEK WHICH THEN FLOWS TO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF LITTLE TRAVERSE LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON GOOD HARBOR BAY MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0120

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/90-07/27/90	17	20.1	19.818	24.1	14.8	15.684	3.96	14.8	15.35	24.	24.1
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/90-07/27/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/27/90-07/27/90	17	300.	304.706	330.	290.	251.471	15.858	290.	290.	320.	330.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/27/90-07/27/90	17	6.4	4.888	9.3	0.05	17.348	4.165	0.05	0.075	8.8	8.98
00406 PH, FIELD, STANDARD UNITS SU	07/27/90-07/27/90	17	8.1	7.906	8.4	7.4	0.184	0.429	7.4	7.4	8.3	8.32
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/27/90-07/27/90	17	8.1	7.722	8.4	7.4	0.22	0.47	7.4	7.4	8.3	8.32
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/90-07/27/90	17	0.008	0.019	0.04	0.004	0.	0.016	0.005	0.005	0.04	0.04
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/27/90-07/27/90	2	147.	147.	156.	138.	162.	12.728	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/90-07/27/90	3	0.6	0.533	0.7	0.3	0.043	0.208	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/90-07/27/90	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/90-07/27/90	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/90-07/27/90	2	1.45	1.45	1.9	1.	0.405	0.636	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/27/90-07/27/90	3	1.2	1.233	1.4	1.1	0.023	0.153	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0120

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	13	&	4										13	4	0.31
00406 PH, FIELD	Other-Hi Lim.	9.	17	0	0.00										17	0	0.00
	Other-Lo Lim.	6.5	17	0	0.00										17	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00										3	0	0.00
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	3	0	0.00										3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0121

NPS Station ID: SLBE0121 LAT/LON: 44.923059/ -85.848615

Location: L. TRAVERSE LK IN W-CENT. BASIN,CLEV. TWP,SEC 11

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN: LAKE MICHIGAN

Minor Basin: MIN BASIN: PLATTE RIVER 0703

RF1 Index: 04060104023

RF3 Index: 04060104003900.00

Description:

LITTLE TRAVERSE LAKE IN A 54 FOOT DEEP BASIN IN THE WEST CENTRAL PORTION OF THE LAKE. THE BASIN IS LOCATED IN SECTION 11, T29N, R13W, CLEVELAND TOWNSHIP, LEELANAU COUNTY. SAMPLING SITE IS 4000 FEET EAST-SOUTHEAST OF OUTLET TO LAKE MICHIGAN. INLET: SHETLAND CREEK. OUTLET: SHALDA CREEK.

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450070 /AC00640.0

Within Park Boundary: No

Date Created: 12/20/80

Depth of Water: 54

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.17

On/Off RF1: OFF

On/Off RF3:

Parameter Inventory for Station: SLBE0121

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/26/80-05/02/89	14	11.5	13.429	22.5	7.	34.533	5.876	7.	8.25	19.625	22.5
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/26/80-08/26/80	3	1.1	1.1	1.2	1.	0.01	0.1	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/26/80-05/02/89	2	162.	162.	192.	132.	1800.	42.426	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/26/80-08/26/80	3	5.	5.	6.	4.	1.	1.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/26/80-05/02/89	10	343.5	353.6	399.	328.	660.489	25.7	328.	330.25	378.5	398.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/80-08/26/80	3	345.	356.667	390.	335.	858.333	29.297	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/26/80-05/02/89	9	7.8	6.989	11.8	0.1	16.951	4.117	0.1	3.5	10.1	11.8
00400 PH (STANDARD UNITS)	08/26/80-05/02/89	10	8.45	8.233	8.6	7.45	0.196	0.442	7.455	7.875	8.558	8.598
00400 CONVERTED PH (STANDARD UNITS)	08/26/80-05/02/89	10	8.447	7.994	8.6	7.45	0.259	0.509	7.455	7.875	8.557	8.598
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/80-05/02/89	10	0.004	0.01	0.035	0.003	0.	0.013	0.003	0.003	0.015	0.035
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/26/80-08/26/80	3	136.	143.667	162.	133.	254.333	15.948	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/26/80-08/26/80	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/26/80-08/26/80	3	0.28	0.293	0.35	0.25	0.003	0.051	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/26/80-05/02/89	6	0.019	0.075	0.35	0.011	0.018	0.135	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/26/80-05/02/89	6	0.265	0.328	0.7	0.22	0.034	0.185	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/80-05/02/89	6	0.135	0.135	0.25	0.008	0.013	0.113	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/26/80-05/02/89	6	0.004	0.003	0.005	0.001	0.	0.002	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/26/80-08/26/80	3	40.	43.333	50.	40.	33.333	5.774	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/80-08/26/80	3	14.	14.333	15.	14.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/26/80-08/26/80	3	5.	5.667	7.	5.	1.333	1.155	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/26/80-08/26/80	3	0.7	0.733	0.9	0.6	0.023	0.153	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/26/80-08/26/80	3	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/26/80-08/26/80	3	33.	33.333	35.	32.	2.333	1.528	**	**	**	**
00958 SILICATE, UNFILTERED REACTIVE (MG/L SiO3 AS Si)	08/26/80-08/26/80	3	3.3	3.833	5.1	3.1	1.213	1.102	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/26/80-08/26/80	3 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0121

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	50.	3	0	0.00	3	0	0.00									
00300	OXYGEN, DISSOLVED	4.	9	2	0.22	7	2	0.29							2	0	0.00
00400	PH	9.	10	0	0.00	7	0	0.00							3	0	0.00
		6.5	10	0	0.00	7	0	0.00							3	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	10.	6	0	0.00	3	0	0.00							3	0	0.00
00940	CHLORIDE, TOTAL IN WATER	860.	3	0	0.00	3	0	0.00									
		250.	3	0	0.00	3	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	3	0	0.00	3	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0122

NPS Station ID: SLBE0122	LAT/LON: 44.923726/ -85.881948	Agency: 11NPSWRD	Date Created: 03/09/96
Location: BASS LAKE (LEE.) NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L31	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 189	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
BASS LAKE (LEE.) LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ALONG THE EASTERN SHORELINE OF THE LAKE. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0122

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.029	0.029	0.029	0.029	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot												

EPA Water Quality Criteria Analysis for Station: SLBE0122

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0123

NPS Station ID: SLBE0123
 Location: BASS LAKE (LEE.)
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.923948/ -85.884948

Depth of Water: 0
 Elevation: 189

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L08
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

BASS LAKE (LEE.) LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. THE SITE IS LOCATED IN THE DEEPEST AREA OF BASS LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0123

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	58	22.	21.745	27.	16.	9.954	3.155	16.	21.	24.	25.1
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/22/93-08/09/95	23	19.	22.043	27.	19.	11.68	3.418	19.	19.	24.	27.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	6	3.55	3.583	4.3	2.9	0.27	0.519	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	2	205.	205.	240.	170.	2450.	49.497	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	58	8.6	7.979	11.	1.4	4.296	2.073	5.6	7.075	8.8	10.42
00406 PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	10	8.7	8.743	9.2	8.5	0.036	0.191	8.51	8.6	8.808	9.163
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/25/90-08/09/95	10	8.7	8.711	9.2	8.5	0.038	0.194	8.51	8.6	8.807	9.163
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-08/09/95	10	0.002	0.002	0.003	0.001	0.	0.001	0.001	0.002	0.003	0.003
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/25/90-08/04/92	5	102.	102.	108.	94.	38.	6.164	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/91-08/04/92	4	0.57	0.54	0.7	0.32	0.037	0.191	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/04/92	5 ##	0.01	0.015	0.025	0.005	0.	0.009	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	7 ##	0.005	0.007	0.012	0.004	0.	0.004	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/91-08/02/94	6	2.4	3.183	5.9	2.2	2.258	1.503	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/04/92	5	1.	1.04	1.4	0.6	0.103	0.321	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0123

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE														13	1	0.08
00406	PH, FIELD														1	0	0.00
	Other-Lo Lim.	4.	58	3	0.05	45	2	0.04									
	Other-Hi Lim.	9.	10	1	0.10	9	1	0.11									
	Other-Lo Lim.	6.5	10	0	0.00	9	0	0.00							1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.														1	0	0.00
	Drinking Water	10.	5	0	0.00	4	0	0.00									
82078	TURBIDITY, FIELD														1	0	0.00
	Other-Hi Lim.	50.	5	0	0.00	4	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0124

NPS Station ID: SLBE0124
 Location: SHALDA CREEK OVERTURN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.924755/ -85.864366

Depth of Water: 0
 Elevation: 181

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S13
 Within Park Boundary: No

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED AT THE POINT SHALDA CREEK CROSSES NORTH TRAVERSE LAKE ROAD NEAR THE OUTLET OF LITTLE TRAVERSE LAKE. THIS SITE WAS ORIGINALLY ESTABLISHED AS PART OF THE LAKE OVERTURN SAMPLING CONDUCTED BY SLEEPING BEAR DUNES NATIONAL LAKESHORE. LAKE OVERTURN SAMPLING OCCURRED IN APRIL AND DECEMBER OF 1990 AND IN APRIL AND NOVEMBER OF 1991. SITE IS LOCATED ON THE GOOD HARBOR BAY MICHIGAN 7.5 MINUTE SERIES(TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/24/90-04/24/90	1	354.	354.	354.	354.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	04/24/90-04/24/90	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	04/24/90-04/24/90	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/90-04/24/90	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/24/90-04/24/90	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	04/24/90-04/24/90	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS Ca)	12/07/90-12/07/90	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/90-04/24/90	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/07/90-12/07/90	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	04/24/90-04/24/90	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/24/90-04/24/90	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/24/90-04/24/90	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/24/90-04/24/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL (MG/L AS K)	12/07/90-12/07/90	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/24/90-10/10/91	4	30.	30.25	32.	29.	2.25	1.5	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/24/90-12/07/90	2	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	04/24/90-12/07/90	2	8.5	8.5	9.2	7.8	0.98	0.99	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/24/90-04/24/90	1###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/07/90-12/07/90	1###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS Ba)	04/24/90-04/24/90	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/24/90-04/24/90	1###	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/07/90-12/07/90	1###	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS Cd)	04/24/90-04/24/90	1###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS Cd)	12/07/90-12/07/90	1###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/24/90-04/24/90	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/07/90-12/07/90	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/90-10/10/91	3 ##	5.	200.	590.	5.	114075.	337.75	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/24/90-04/24/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/07/90-12/07/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/90-12/07/90	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/24/90-04/24/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/07/90-12/07/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	04/24/90-04/24/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/24/90-04/24/90	1	440.	440.	440.	440.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/24/90-04/24/90	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/24/90-04/24/90	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/90-12/07/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/90-10/10/91	3	20.	55.	140.	5.	5475.	73.993	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/24/90-04/24/90	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	12/07/90-12/07/90	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/07/90-12/07/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/24/90-04/24/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/07/90-12/07/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	04/24/90-10/10/91	4	6.	5.9	6.2	5.4	0.147	0.383	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0124

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406	PH, FIELD																
	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	250.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	4.	2	0	0.00				1	0	0.00				1	0	0.00
01000	ARSENIC, DISSOLVED																
	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00												
01002	ARSENIC, TOTAL								1	0	0.00						
	Fresh Acute	360.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00												
01005	BARIUM, DISSOLVED	2000.	1	0	0.00										1	0	0.00
01010	BERYLLIUM, DISSOLVED														1	0	0.00
	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00												
01012	BERYLLIUM, TOTAL								1	0	0.00						
	Fresh Acute	130.	1	0	0.00												
	Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED																
	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01027	CADMIUM, TOTAL								1	0	0.00						
	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
	Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	100.	1	0	0.00										1	0	0.00
01034	CHROMIUM, TOTAL	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED														1	0	0.00
	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00												
01042	COPPER, TOTAL								1	0	0.00						
	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00												
01049	LEAD, DISSOLVED														1	0	0.00
	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00												
01051	LEAD, TOTAL								1	0	0.00						
	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0124

Parameter	Std. Type	Std. Value	Total			8/01-11/30			12/01-2/29			3/01-4/14			4/15-7/31		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						
82295 CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	250000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0125

NPS Station ID: SLBE0125
 Location: SHALDA CREEK UPSTREAM
 Station Type: /TYP/A/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.925671/ -85.873560

Depth of Water: 0
 Elevation: 180

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S12
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED UPSTREAM OF THE COUNTY ROAD 669 CROSSING OF SHALDA CREEK. THE MAIN CHANNEL OF THE SHALDA CREEK IN THIS UPPER SECTION IS RELATIVELY DEEP WITH DEPTH REACHING OVER A METER IN MOST PLACES. THE STREAM EDGE IS LINED WITH DENSE BEDS AND FLOATING MATS OF MACROPHYTES WHICH EXTENDED SEVERAL METERS INTO THE STREAM. AS A RESULT THE RIPARIAN VEGETATION ALONG THE BANKS DID NOT ACT TO SHADE THE MAIN STREAM CHANNEL. THE SUBSTRATE WITHIN THE MAIN CHANNEL CONSISTS OF SAND SILT AND MARL. SITE IS LOCATED ON THE GOOD HARBOR BAY MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0125

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/90-08/10/95	30	19.	17.767	25.	5.	20.823	4.563	9.65	15.625	21.	22.
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/03/90-08/10/95	26	350.	339.5	375.	267.	826.9	28.756	300.	325.	360.	375.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/03/90-08/10/95	26	8.1	8.038	11.5	0.8	3.27	1.808	6.87	7.675	8.7	9.65
00406 PH, FIELD, STANDARD UNITS SU	05/03/90-08/10/95	30	8.2	8.283	8.7	7.7	0.084	0.289	7.9	8.075	8.5	8.7
00406 CONVERTED PH, FIELD, STANDARD UNITS	05/03/90-08/10/95	30	8.2	8.192	8.7	7.7	0.092	0.304	7.9	8.075	8.5	8.7
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/03/90-08/10/95	30	0.006	0.006	0.02	0.002	0.	0.004	0.002	0.003	0.008	0.013
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/03/90-09/16/92	23	146.	145.478	152.	136.	18.625	4.316	139.6	142.	148.	151.2
00600 NITROGEN, TOTAL (MG/L AS N)	05/03/90-09/16/92	27	0.5	0.496	1.4	0.15	0.081	0.284	0.19	0.25	0.7	0.8
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/03/90-09/16/92	27	0.4	0.387	0.7	0.05	0.025	0.157	0.18	0.3	0.5	0.62
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	05/03/90-09/16/92	27	0.1	0.172	1.1	0.05	0.039	0.199	0.05	0.05	0.2	0.22
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/03/90-09/16/92	27 ##	0.005	0.01	0.068	0.002	0.	0.016	0.003	0.004	0.005	0.035
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/90-09/21/90	2	15.05	15.05	16.	14.1	1.805	1.344	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	06/15/90-09/16/92	25	1.1	1.104	2.3	0.7	0.105	0.325	0.76	0.9	1.2	1.44
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/13/90-09/16/92	23	1.4	1.357	2.1	0.7	0.199	0.446	0.74	0.9	1.7	2.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0125

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	26	1	0.04	10	0	0.00							16	1	0.06
00406	PH, FIELD														16	0	0.00
	Other-Hi Lim.	9.	30	0	0.00	14	0	0.00									
	Other-Lo Lim.	6.5	30	0	0.00	14	0	0.00							16	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.														14	0	0.00
	Drinking Water	10.	27	0	0.00	13	0	0.00									
82078	TURBIDITY, FIELD														10	0	0.00
	Other-Hi Lim.	50.	23	0	0.00	13	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0126

NPS Station ID: SLBE0126
 Location: SHELDA SPRINGS NR BASS LAKE
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104
 RF3 Index: 04060104002300.00
 Description:

LAT/LON: 44.929170/ -85.886116

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 2.72

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 445545085531001
 Within Park Boundary: Yes

Date Created: 12/02/81

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.60
 Distance from RF3: 0.25

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0126

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/27/80-08/27/80	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/27/80-08/27/80	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	08/27/80-08/27/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/80-08/27/80	1	237.	237.	237.	237.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/27/80-08/27/80	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/27/80-08/27/80	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/80-08/27/80	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/27/80-08/27/80	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/27/80-08/27/80	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/27/80-08/27/80	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/80-08/27/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	08/27/80-08/27/80	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/27/80-08/27/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/27/80-08/27/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/27/80-08/27/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/27/80-08/27/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/27/80-08/27/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/27/80-08/27/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/27/80-08/27/80	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/27/80-08/27/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	08/27/80-08/27/80	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	08/27/80-08/27/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	08/27/80-08/27/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341 GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352 CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361 DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366 DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0126

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/27/80-08/27/80	1	156.	156.	156.	156.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/27/80-08/27/80	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/27/80-08/27/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/27/80-08/27/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0126

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00								
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00								
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00								
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00	1	0	0.00								
		Drinking Water	0.2	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00								
		Drinking Water	250.	1	0	0.00	1	0	0.00								
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00								
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00								
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00								
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00								
		Drinking Water	5.	1	0	0.00	1	0	0.00								
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00								
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00								
		Drinking Water	15.	1	0	0.00	1	0	0.00								
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00								
		Drinking Water	100.	1	0	0.00	1	0	0.00								
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00								
		Drinking Water	5000.	1	0	0.00	1	0	0.00								
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00								
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00								
		Drinking Water	0.2	1	0	0.00	1	0	0.00								
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00								
		Drinking Water	2.	1	0	0.00	1	0	0.00								
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00								
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00								
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00								
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00								
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00								
		Drinking Water	2.	1	0	0.00	1	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0126

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00								
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00								
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00								
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00								
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00								
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00								
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	1	0	0.00	1	0	0.00								
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00								
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0127

NPS Station ID: SLBE0127
 Location: SHALDA CREEK MIDSTREAM
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.932670/ -85.887170

Depth of Water: 0
 Elevation: 179

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S11
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED AT THE END OF A DRIVE 1.5 KILOMETERS WEST OF COUNTY ROAD 669 AND NORTH OF M22. RIPARIAN VEGETATION CONSISTS OF CEDAR BIRCH OAK AND MAPLE TREES AND SHADES APPROXIMATELY 50% OF THE STREAM. MANY TREES HAVE FALLEN INTO THE STREAM AND THE SUBSTRATE IS DOMINATED BY FINE AND SILT. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0127

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/94-08/10/95	2	24.	24.	25.	23.	2.	1.414	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/01/94-08/10/95	2	305.5	305.5	335.	276.	1740.5	41.719	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/01/94-08/10/95	2	8.1	8.1	8.2	8.	0.02	0.141	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	07/01/94-08/10/95	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/01/94-08/10/95	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/01/94-08/10/95	2	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0127

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0128

NPS Station ID: SLBE0128
 Location: LAKE MICHIGAN OPEN WATER
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: LAKE MICHIGAN
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:
 OPEN WATER LAKE MICHIGAN SURVEILLANCE STATION SAMPLED THREE TIMES A YEAR AT THE SURFACE,THERMOCLINE AND NEAR THE BOTTOM

LAT/LON: 44.933337/ -86.083338

Depth of Water: 19
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 1115G050
 FIPS State/County: 26998 MICHIGAN/
 STORET Station ID(s): L. MICH 42 /L.MICH42
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/62-10/03/74	20	9.	10.76	21.4	4.	31.475	5.61	4.1	5.5	15.175	20.96
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/13/70-08/13/70	1	22.4	22.4	22.4	22.4	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/13/70-08/13/70	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	06/08/62-05/26/63	10	0.8	1.12	4.	0.5	1.064	1.032	0.5	0.725	0.975	3.72
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/03/74-10/03/74	3	2.	4.	9.	1.	19.	4.359	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/13/70-08/13/70	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00092	FLOW, MAXIMUM OF FLOW RANGE CFS	08/13/70-10/05/70	2	16.	16.	21.	11.	50.	7.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/62-10/03/74	19	275.	276.263	288.	266.	46.871	6.846	266.	270.	282.	285.
00300	OXYGEN, DISSOLVED MG/L	06/08/62-10/03/74	26	11.35	11.069	13.1	8.6	2.849	1.688	8.67	9.	12.525	13.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/08/62-07/17/63	10	105.	103.92	110.4	89.7	32.182	5.673	90.96	102.3	107.65	110.14
00400	PH (STANDARD UNITS)	06/08/62-10/03/74	26	8.25	8.219	8.5	7.7	0.038	0.196	7.94	8.1	8.4	8.4
00400	CONVERTED PH (STANDARD UNITS)	06/08/62-10/03/74	26	8.247	8.17	8.5	7.7	0.041	0.202	7.94	8.1	8.4	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/08/62-10/03/74	26	0.006	0.007	0.02	0.003	0.	0.004	0.004	0.004	0.008	0.012
00403	PH, LAB, STANDARD UNITS SU	10/03/74-10/03/74	3	8.1	8.033	8.2	7.8	0.043	0.208	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/03/74-10/03/74	3	8.1	7.999	8.2	7.8	0.045	0.212	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/03/74-10/03/74	3	0.008	0.01	0.016	0.006	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	06/08/62-10/03/74	19	110.	112.421	120.	100.	25.591	5.059	109.	110.	117.	120.
00500	RESIDUE, TOTAL (MG/L)	06/08/62-06/08/62	3	155.	168.667	198.	153.	646.333	25.423	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/08/62-10/05/70	14	165.	165.714	198.	146.	164.066	12.809	148.	158.25	170.	189.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/08/62-08/13/70	4	0.	2.25	9.	0.	20.25	4.5	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/07/62-06/07/62	3	0.49	0.423	0.6	0.18	0.047	0.218	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	06/07/62-10/03/74	16	0.135	0.181	0.55	0.	0.029	0.17	0.	0.064	0.313	0.515
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/62-10/03/74	19	0.03	0.052	0.18	0.003	0.003	0.051	0.004	0.01	0.09	0.13
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/62-10/05/70	17	0.17	0.165	0.38	0.07	0.005	0.067	0.078	0.135	0.175	0.236
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/13/70-10/03/74	10	0.108	0.205	0.56	0.02	0.041	0.202	0.02	0.058	0.405	0.555
00630	NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	10/03/74-10/03/74	3	0.16	0.2	0.3	0.14	0.008	0.087	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/08/62-07/17/63	10	0.015	0.051	0.16	0.	0.004	0.065	0.001	0.01	0.128	0.159
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/13/70-10/03/74	10	0.006	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.009	0.012
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/03/74-10/03/74	3	0.002	0.003	0.004	0.002	0.	0.001	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	06/08/62-05/26/63	7	34.	33.857	35.	33.	0.476	0.69	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS Ca)	08/13/70-10/03/74	10	33.	33.3	38.	31.	3.789	1.947	31.1	32.	34.	37.6
00920	MAGNESIUM (MG/L AS CaCO3)	06/08/62-05/26/63	7	4.	4.057	4.3	4.	0.013	0.113	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/62-10/05/70	14	13.5	13.071	15.	10.	2.841	1.685	10.5	11.	14.25	15.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/03/74-10/03/74	3	10.7	10.767	11.1	10.5	0.093	0.306	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS Na)	08/13/70-10/03/74	10	4.15	4.27	5.2	3.5	0.425	0.652	3.51	3.6	5.05	5.2
00937	POTASSIUM, TOTAL MG/L AS K)	06/08/62-10/03/74	17	1.2	1.14	1.3	0.98	0.012	0.108	0.996	1.	1.2	1.3

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0128

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00940	CHLORIDE,TOTAL IN WATER MG/L	06/08/62-10/03/74	19	8.	8.158	13.	5.	5.585	2.363	6.	6.	10.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/62-10/03/74	19	19.	17.842	22.	12.	10.14	3.184	13.	15.	21.	22.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/03/74-10/03/74	3	0.1	0.103	0.11	0.1	0.	0.006	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/62-10/05/70	11	1.3	1.755	3.6	0.8	0.927	0.963	0.8	0.9	2.6	3.4
00956	SILICA, TOTAL (MG/L AS SI02)	10/03/74-10/03/74	3	0.6	1.8	4.4	0.4	5.08	2.254	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/13/70-10/05/70	2	9.5	9.5	15.	4.	60.5	7.778	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/03/74-10/03/74	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/70-10/03/74	10	0.025	0.075	0.4	0.	0.017	0.13	0.	0.	0.088	0.38
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/70-10/03/74	10	1.	1.48	5.	0.	2.971	1.724	0.	0.	2.5	4.9
01037	COBALT, TOTAL (UG/L AS CO)	10/03/74-10/03/74	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/13/70-10/03/74	10	2.	3.5	13.	1.	16.722	4.089	1.	1.	3.75	12.6
01045	IRON, TOTAL (UG/L AS FE)	10/03/74-10/03/74	3 ##	5.	36.667	100.	5.	3008.333	54.848	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/13/70-10/03/74	10	2.	2.7	6.	0.	5.067	2.251	0.05	0.5	5.25	6.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/03/74-10/03/74	3	0.7	2.733	7.	0.5	13.663	3.696	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/13/70-10/03/74	10	2.5	2.75	5.	1.	1.903	1.379	1.	1.75	3.5	5.
01077	SILVER, TOTAL (UG/L AS AG)	10/03/74-10/03/74	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	10/03/74-10/03/74	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/13/70-10/03/74	10	19.5	17.65	34.	6.5	67.392	8.209	6.7	10.375	22.	32.8
01102	TIN, TOTAL (UG/L AS SN)	10/03/74-10/03/74	3	112.	112.333	113.	112.	0.333	0.577	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/03/74-10/03/74	3	20.	180.	500.	20.	76800.	277.128	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/03/74-10/03/74	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
02060	INVALID PARAMETER	08/13/70-08/13/70	1	22.4	22.4	22.4	22.4	0.	0.	**	**	**	**
03401	INVALID PARAMETER	08/13/70-10/05/70	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
04201	HYDROGEN, DRY WEIGHT, MOLLUSK TISSUE %	08/13/70-10/05/70	2	1.7	1.7	2.	1.4	0.18	0.424	**	**	**	**
05000	INVALID PARAMETER	08/13/70-10/05/70	2	52.5	52.5	63.	42.	220.5	14.849	**	**	**	**
05101	INVALID PARAMETER	08/13/70-10/05/70	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
06701	INVALID PARAMETER	08/13/70-10/05/70	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
30000	DIMETHOATE, SOIL, RECOVERABLE MG/KG	08/13/70-10/05/70	2	9.	9.	9.	9.	0.	0.	**	**	**	**
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	10/03/74-10/03/74	3	2.	4.833	12.	0.5	39.083	6.252	**	**	**	**
31749	LOG PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	10/03/74-10/03/74	3	0.301	0.36	1.079	-0.301	0.479	0.692	**	**	**	**
31749	GM PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	GEOMETRIC MEAN =			2.289								
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	10/03/74-10/03/74	3	1.	1.167	2.	0.5	0.583	0.764	**	**	**	**
31751	LOG PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	10/03/74-10/03/74	3	0.	0.	0.301	-0.301	0.091	0.301	**	**	**	**
31751	GM PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	GEOMETRIC MEAN =			1.								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/08/62-05/26/63	7	0.04	0.047	0.12	0.02	0.001	0.033	**	**	**	**
40000	INVALID PARAMETER	08/13/70-10/05/70	2	8.2	8.2	8.4	8.	0.08	0.283	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	08/13/70-10/05/70	7	105.	102.	147.	42.	1386.	37.229	**	**	**	**
61000	INVALID PARAMETER	08/13/70-10/05/70	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/03/74-10/03/74	3	164.	163.	188.	137.	651.	25.515	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/13/70-08/13/70	3	0.6	0.433	0.7	0.	0.143	0.379	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0128

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00	3	0	0.00								
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	3	0	0.00								
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	26	0	0.00	10	0	0.00						16	0	0.00
00400	PH	Other-Hi Lim.	9.	26	0	0.00	10	0	0.00						16	0	0.00
		Other-Lo Lim.	6.5	26	0	0.00	10	0	0.00								
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00								
		Other-Lo Lim.	6.5	3	0	0.00	3	0	0.00								
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	17	0	0.00	7	0	0.00						10	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	3	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	19	0	0.00	10	0	0.00						9	0	0.00
		Drinking Water	250.	19	0	0.00	10	0	0.00						9	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	19	0	0.00	10	0	0.00						9	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	3	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0128

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	2	0	0.00									
	Drinking Water	50.	2	0	0.00	2	0	0.00									
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	3	0	0.00									
	Drinking Water	4.	3	0	0.00	3	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	10	0	0.00	10	0	0.00									
	Drinking Water	5.	10	0	0.00	10	0	0.00									
01034 CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00	10	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	10	0	0.00	10	0	0.00									
	Drinking Water	1300.	10	0	0.00	10	0	0.00									
01051 LEAD, TOTAL	Fresh Acute	82.	10	0	0.00	10	0	0.00									
	Drinking Water	15.	10	0	0.00	10	0	0.00									
01067 NICKEL, TOTAL	Fresh Acute	1400.	10	0	0.00	10	0	0.00									
	Drinking Water	100.	10	0	0.00	10	0	0.00									
01077 SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	3	0	0.00									
	Drinking Water	100.	3	0	0.00	3	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	10	0	0.00	10	0	0.00									
	Drinking Water	5000.	10	0	0.00	10	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	3	0	0.00									
	Drinking Water	50.	3	0	0.00	3	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
	Drinking Water	2.	3	0	0.00	3	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 8/01 to 11/30 - Station SLBE0128

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10	13.75	12.52	21.4	4.	41.786	6.464	4.	4.75	16.9	21.4
00300	OXYGEN, DISSOLVED MG/L	10	8.95	9.21	10.5	8.6	0.474	0.689	8.6	8.675	10.	10.45
00400	PH (STANDARD UNITS)	10	8.35	8.24	8.5	7.7	0.06	0.246	7.73	8.075	8.4	8.49
00400	CONVERTED PH (STANDARD UNITS)	10	8.347	8.166	8.5	7.7	0.067	0.258	7.73	8.075	8.4	8.49
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10	0.004	0.007	0.02	0.003	0.	0.005	0.003	0.004	0.008	0.019
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10	0.103	0.187	0.55	0.	0.04	0.2	0.	0.045	0.365	0.545
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10	0.01	0.018	0.05	0.003	0.	0.017	0.003	0.004	0.033	0.049
00937	POTASSIUM, TOTAL MG/L AS K	10	1.1	1.108	1.3	0.98	0.015	0.122	0.982	1.	1.2	1.29
00940	CHLORIDE, TOTAL IN WATER MG/L	10	9.5	9.9	13.	8.	3.433	1.853	8.	8.	12.	12.9
00945	SULFATE, TOTAL (MG/L AS SO4)	10	15.	16.4	22.	12.	14.489	3.806	12.1	13.75	21.25	22.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 4/15 to 7/31 - Station SLBE0128

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10	7.5	9.	17.	5.	17.778	4.216	5.	6.5	11.5	16.9
00300	OXYGEN, DISSOLVED MG/L	16	12.5	12.231	13.1	10.3	0.718	0.848	10.72	11.85	12.775	13.1
00400	PH (STANDARD UNITS)	16	8.2	8.206	8.4	7.8	0.027	0.165	7.94	8.125	8.3	8.4
00400	CONVERTED PH (STANDARD UNITS)	16	8.2	8.173	8.4	7.8	0.028	0.169	7.94	8.125	8.3	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	16	0.006	0.007	0.016	0.004	0.	0.003	0.004	0.005	0.008	0.012
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	6	0.15	0.172	0.32	0.	0.014	0.118	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	9	0.09	0.09	0.18	0.01	0.003	0.05	0.01	0.055	0.12	0.18
00937	POTASSIUM, TOTAL MG/L AS K	7	1.2	1.186	1.3	1.1	0.005	0.069	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	9	6.	6.222	8.	5.	0.694	0.833	5.	6.	6.5	8.
00945	SULFATE, TOTAL (MG/L AS SO4)	9	19.	19.444	21.	18.	1.028	1.014	18.	19.	20.5	21.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: SLBE0129

NPS Station ID: SLBE0129		LAT/LON: 44.934087/ -85.906116		Agency: 11NPSWRD		Date Created: 03/09/96	
Location: NARADA LAKE NUTRIENT AND CHLOROPHYLL A				FIPS State/County: 26089 MICHIGAN/LEELANAU			
Station Type: /TYP/A/AMBNT/LAKE				STORET Station ID(s): SLBE_L28			
RMI-Indexes:				Within Park Boundary: Yes			
RMI-Miles:							
HUC: 04060104		Depth of Water: 0		Aquifer:			
Major Basin: MICHIGAN		Elevation: 179		Water Body Id:			
Minor Basin: PLATTE RIVER				ECO Region:			
RF1 Index: 04060104		RF1 Mile Point: 0.000		Distance from RF1: 2.70		On/Off RF1:	
RF3 Index: 04060104000500.00		RF3 Mile Point: 5.47		Distance from RF3: 0.76		On/Off RF3:	
Description:							
NARADA LAKE LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. A SMALL STREAM FLOWS FROM NARADA LAKE INTO SHALDA CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE WAS USED FOR NUTRIENT AND CHLOROPHYLL A SAMPLING IN 1994. THE SITE IS LOCATED ALONG THE SOUTHERN SHORELINE OF THE LAKE.							
SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.							

Parameter Inventory for Station: SLBE0129

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.052	0.052	0.052	0.052	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/03/94-08/03/94	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0129

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0130

NPS Station ID: SLBE0130
 Location: NARADA LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.935170/ -85.904893

Depth of Water: 0
 Elevation: 179

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L05
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

NARADA LAKE LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. A SMALL STREAM FLOWS FROM NARADA LAKE INTO SHALDA CREEK WHICH THEN FLOWS INTO LAKE MICHIGAN. THE SITE IS LOCATED IN THE DEEPEST AREA OF NARADA LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	102	12.	13.95	26.5	5.	44.403	6.664	7.	8.	21.625	24.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/07/93-08/09/95	54	26.	24.667	27.	22.	4.755	2.181	22.	22.	26.	27.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/25/90-08/09/95	6	4.25	3.983	5.	2.5	0.87	0.933	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/21/94-08/09/95	2	216.5	216.5	253.	180.	2664.5	51.619	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	101	4.9	5.017	11.8	0.05	16.335	4.042	0.4	0.9	9.	10.16
00406 PH, FIELD, STANDARD UNITS SU	07/25/90-08/09/95	11	8.3	8.277	8.9	7.2	0.247	0.497	7.3	8.1	8.7	8.86
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/25/90-08/09/95	11	8.3	7.961	8.9	7.2	0.357	0.597	7.3	8.1	8.7	8.86
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/25/90-08/09/95	11	0.005	0.011	0.063	0.001	0.	0.018	0.001	0.002	0.008	0.054
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/25/90-08/05/92	6	148.	148.333	178.	124.	458.267	21.407	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/25/90-08/05/92	7	0.44	0.454	0.6	0.3	0.014	0.119	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/25/90-08/05/92	6 ##	0.025	0.029	0.05	0.01	0.	0.017	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/90-08/09/95	8 ##	0.01	0.02	0.08	0.004	0.001	0.026	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/25/90-07/21/94	11	6.2	5.582	16.2	1.1	19.42	4.407	1.16	1.7	6.2	14.88
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/25/90-08/05/92	6	1.25	1.317	2.	0.8	0.186	0.431	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0130

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	100 &	47	0.47	65	29	0.45							35	18	0.51
00406 PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	8	0	0.00							3	0	0.00
	Other-Lo Lim.	6.5	11	0	0.00	8	0	0.00							3	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL I DET.	Drinking Water	10.	6	0	0.00	4	0	0.00							2	0	0.00
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	6	0	0.00	4	0	0.00							2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1990 - Station SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	15	15.5	16.127	26.	7.	46.541	6.822	7.3	9.	23.2	25.28
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	15	5.	4.863	11.	0.05	17.394	4.171	0.08	0.4	8.8	10.34

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	12	12.	14.208	23.	7.	47.884	6.92	7.	7.625	22.75	23.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	12	0.85	3.2	9.	0.1	14.424	3.798	0.1	0.2	7.65	9.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	21	13.5	14.524	22.5	7.	44.737	6.689	7.	7.25	22.25	22.5
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	21	7.9	5.267	11.8	0.9	17.997	4.242	0.9	0.9	9.05	10.38

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	21	10.5	9.929	12.	5.	5.532	2.352	6.	8.5	12.	12.
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	20	9.4	7.78	11.	1.2	13.616	3.69	1.22	4.3	10.4	10.96

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	21	12.5	14.5	24.5	6.	54.7	7.396	6.1	7.25	23.5	24.5
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	21	3.	4.095	9.5	0.5	12.995	3.605	0.5	0.65	8.	9.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

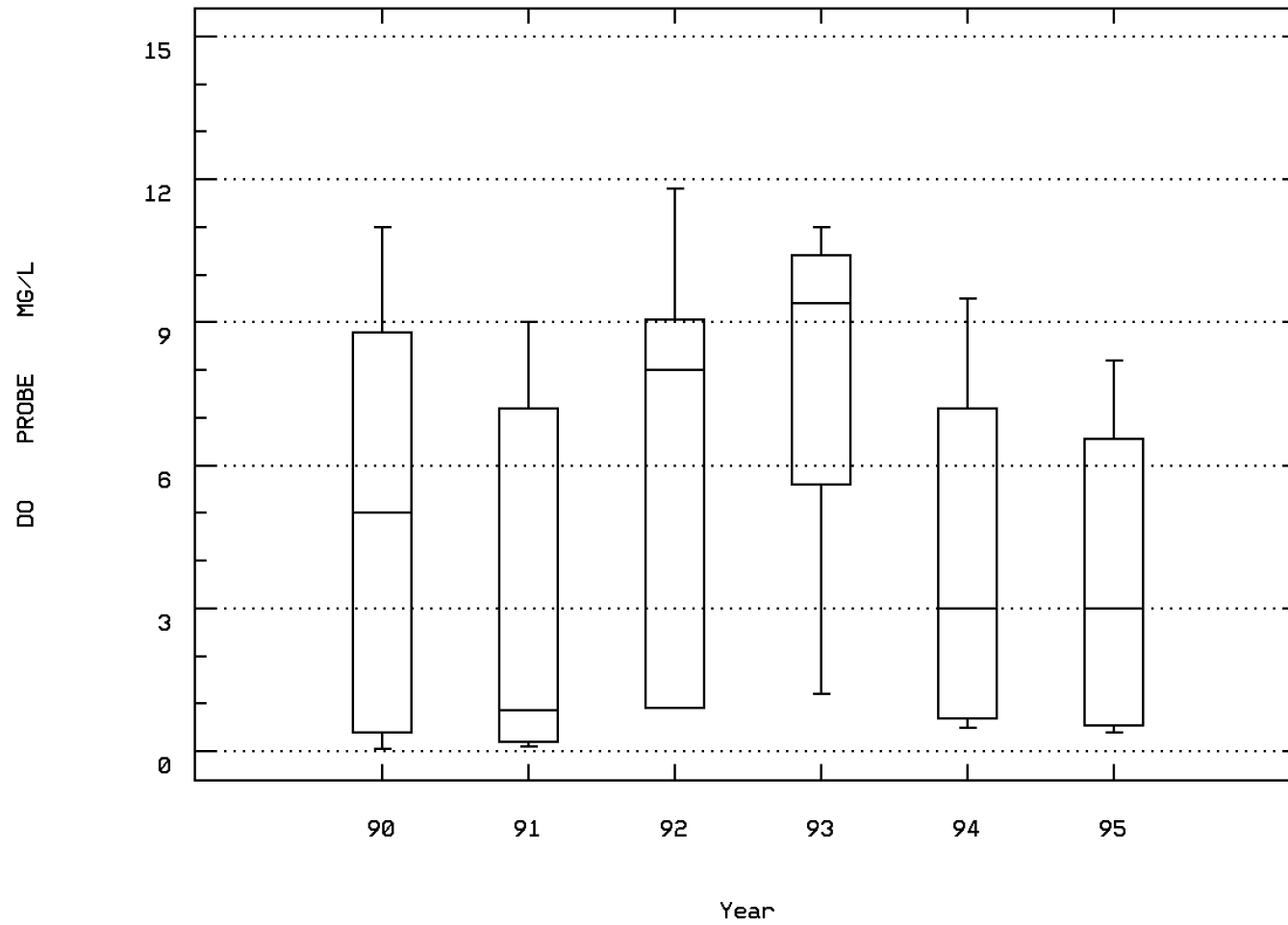
Annual Analysis for 1995 - Station SLBE0130

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-08/09/95	12	13.75	16.042	26.5	7.5	66.339	8.145	7.5	8.	25.875	26.5
00299p OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/25/90-08/09/95	12	3.	3.6	8.2	0.4	10.627	3.26	0.43	0.525	7.175	8.17

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: SLBE0130 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



NARADA LAKE

Station Inventory for Station: SLBE0131

NPS Station ID: SLBE0131	LAT/LON: 44.945809/ -85.886088	Agency: 11NPSWRD	Date Created: 03/09/96
Location: SHALDA CREEK DOWNSTREAM		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/STREAM		STORET Station ID(s): SLBE_S09	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 178	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:

Description:
 SITE IS LOCATED APPROXIMATELY 300 METERS UPSTREAM FROM THE LAKE MICHIGAN ROAD CROSSING OF THE SHALDA CREEK. IN THIS AREA THE CHANNEL WIDTH IS APPROXIMATELY 7 METERS AND DEPTHS RANGE UP TO 0.75 METERS. RIPARIAN VEGETATION IS NOT EXTREMELY DENSE WITH ONLY 25% OF THE STREAM SHADED. PATCHES OF GRAVEL WERE PRESENT HOWEVER SAND WAS THE DOMINANT SUBSTRATE. THE SITE WAS USED FOR SAMPLING FROM 1990 THROUGH 1993.
 SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0131

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/90-09/10/93	29	18.	16.862	22.	5.	18.695	4.324	9.	14.5	20.	21.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/10/93-09/10/93	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	05/03/90-09/16/92	24	325.	326.458	375.	200.	1529.303	39.106	275.	313.75	350.	375.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/03/90-09/10/93	25	8.	8.352	11.6	7.	1.228	1.108	7.46	7.65	8.65	10.4
00406 PH, FIELD, STANDARD UNITS SU	05/03/90-09/10/93	29	7.9	7.972	8.7	7.4	0.1	0.316	7.6	7.75	8.2	8.5
00406 CONVERTED PH, FIELD, STANDARD UNITS	05/03/90-09/10/93	29	7.9	7.872	8.7	7.4	0.11	0.332	7.6	7.75	8.2	8.5
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/03/90-09/10/93	29	0.013	0.013	0.04	0.002	0.	0.009	0.003	0.006	0.018	0.025
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/03/90-09/16/92	23	152.	152.609	176.	144.	45.613	6.754	144.8	148.	154.	160.8
00600 NITROGEN, TOTAL (MG/L AS N)	05/03/90-09/16/92	27 ##	0.4	0.428	0.9	0.15	0.047	0.216	0.15	0.25	0.6	0.72
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/03/90-09/16/92	27	0.4	0.424	0.7	0.05	0.025	0.158	0.18	0.4	0.5	0.7
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	05/03/90-09/16/92	27 ##	0.05	0.1	0.2	0.005	0.005	0.069	0.05	0.05	0.2	0.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/03/90-09/16/92	27	0.01	0.009	0.03	0.004	0.	0.006	0.004	0.005	0.011	0.014
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	06/01/90-09/21/90	4	74.65	85.875	150.	44.2	2435.409	49.35	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/06/92-09/16/92	6	0.95	1.067	1.7	0.8	0.127	0.356	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/13/90-09/16/92	22	1.1	1.15	2.4	0.5	0.205	0.452	0.6	0.775	1.425	1.67

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0131

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	25	0	0.00	10	0	0.00							15	0	0.00
00406	PH, FIELD														15	0	0.00
	Other-Hi Lim.	9.	29	0	0.00	14	0	0.00									
	Other-Lo Lim.	6.5	29	0	0.00	14	0	0.00							15	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.														14	0	0.00
	Drinking Water	10.	27	0	0.00	13	0	0.00									
82078	TURBIDITY, FIELD														10	0	0.00
	Other-Hi Lim.	50.	22	0	0.00	12	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0132

NPS Station ID: SLBE0132
 Location: SHALDA CREEK NR GLEN ARBOR, MICHIGAN
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin:
 Minor Basin:
 RF1 Index: 04060104003
 RF3 Index: 04060104002100.00
 Description:

LAT/LON: 44.946670/ -85.885281

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.100
 RF3 Mile Point: 2.93

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 04126810
 Within Park Boundary: Yes

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: SLBE0132

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/79-10/27/81	3	8.	10.	16.	6.	28.	5.292	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/80-05/14/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	08/16/79-10/27/81	3	21.	22.667	28.	19.	22.333	4.726	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/16/79-10/27/81	3	1.	0.933	1.	0.8	0.013	0.115	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/14/80-10/27/81	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/16/79-08/16/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/79-10/27/81	3	338.	339.333	360.	320.	401.333	20.033	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/16/79-10/27/81	3	10.5	10.333	11.4	9.1	1.343	1.159	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/16/79-10/27/81	3	93.	92.667	95.	90.	6.333	2.517	**	**	**	**
00400 PH (STANDARD UNITS)	08/16/79-10/27/81	3	7.9	7.967	8.1	7.9	0.013	0.115	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/16/79-10/27/81	3	7.9	7.957	8.1	7.9	0.013	0.116	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/16/79-10/27/81	3	0.013	0.011	0.013	0.008	0.	0.003	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/27/81-10/27/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/27/81-10/27/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/81-10/27/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	08/16/79-05/14/80	2	3.2	3.2	4.	2.4	1.28	1.131	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/16/79-05/14/80	2	156.5	156.5	160.	153.	24.5	4.95	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	08/16/79-05/14/80	2	193.	193.	200.	186.	98.	9.899	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	08/16/79-05/14/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-10/27/81	3 ##	0.005	0.003	0.005	0.	0.	0.003	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/16/79-05/14/80	2	0.195	0.195	0.24	0.15	0.004	0.064	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/79-10/27/81	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/16/79-10/27/81	3	0.01	0.048	0.13	0.005	0.005	0.071	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	05/14/80-10/27/81	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
00723 CYANIDE, DISSOLVED STD METHOD (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/16/79-10/27/81	3	180.	176.667	180.	170.	33.333	5.774	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/16/79-05/14/80	2	17.5	17.5	18.	17.	0.5	0.707	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/16/79-10/27/81	3	46.	47.	50.	45.	7.	2.646	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/79-10/27/81	3	14.	14.333	15.	14.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	08/16/79-10/27/81	3	3.4	3.6	4.1	3.3	0.19	0.436	**	**	**	**
00931 SODIUM ADSORPTION RATIO	08/16/79-10/27/81	3	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	08/16/79-10/27/81	3	4.	4.333	5.	4.	0.333	0.577	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	08/16/79-10/27/81	3	0.6	0.567	0.7	0.4	0.023	0.153	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/16/79-10/27/81	3	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/16/79-10/27/81	3	26.	25.333	27.	23.	4.333	2.082	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/16/79-10/27/81	3	0.5	0.533	0.6	0.5	0.003	0.058	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	08/16/79-10/27/81	3	6.9	7.533	9.2	6.5	2.123	1.457	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	08/16/79-10/27/81	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**

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Parameter Inventory for Station: SLBE0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/16/79-10/27/81	3	30.	33.333	40.	30.	33.333	5.774	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/16/79-10/27/81	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/16/79-10/27/81	3	2.	1.5	2.	0.5	0.75	0.866	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/16/79-10/27/81	3	8.	11.	20.	5.	63.	7.937	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/16/79-10/27/81	3	1.	0.667	1.	0.	0.333	0.577	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/79-10/27/81	3	3.	3.667	6.	2.	4.333	2.082	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/16/79-10/27/81	3 ##	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/16/79-10/27/81	3	3.	3.667	6.	2.	4.333	2.082	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/16/79-10/27/81	3 ##	0.5	0.333	0.5	0.	0.083	0.289	**	**	**	**
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79	1	44.	44.	44.	44.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/16/79-08/16/79	1	1.643	1.643	1.643	1.643	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			44.								
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	08/16/79-08/16/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/16/79-10/27/81	3	203.	203.667	214.	194.	100.333	10.017	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/79-10/27/81	3	199.	198.667	205.	192.	42.333	6.506	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/16/79-10/27/81	3	10.9	12.6	16.4	10.5	10.87	3.297	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/79-10/27/81	3	0.28	0.277	0.29	0.26	0.	0.015	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/16/79-05/14/80	2	3.85	3.85	6.6	1.1	15.125	3.889	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	08/16/79-05/14/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/16/79-10/27/81	3 ##	0.05	0.117	0.25	0.05	0.013	0.115	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: SLBE0132

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00						1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	2	0	0.00						1	0	0.00
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00						1	0	0.00
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00						1	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	2	0	0.00						1	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00						1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00						1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	0.2	2	0	0.00	1	0	0.00						1	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	1	0	0.00	1	0	0.00								
		Drinking Water	200.	1	0	0.00	1	0	0.00								
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00						1	0	0.00
		Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00						1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00						1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0132

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00							1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5.	3	0	0.00	2	0	0.00							1	0	0.00
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	15.	3	0	0.00	2	0	0.00							1	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	100.	3	0	0.00	2	0	0.00							1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	5000.	3	0	0.00	2	0	0.00							1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39381 DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
	Drinking Water	3.	1	0	0.00	1	0	0.00									
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.4	1	0	0.00	1	0	0.00									
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00							1	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00							1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00							1	0	0.00
	Drinking Water	2.	3	0	0.00	2	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0133

NPS Station ID: SLBE0133
 Location: SHALDA CREEK DOWNSTREAM 94 - 95
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.947476/ -85.884643

Depth of Water: 0
 Elevation: 178

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_S10
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SITE IS LOCATED UPSTREAM OF THE LAKE MICHIGAN DRIVE CROSSING OF SHALDA CREEK. HERE THE CHANNEL IS 7 METERS WIDE AND THE MAXIMUM DEPTH IS 0.75 METERS. RIPARIAN VEGETATION SHADES MOST OF THE CHANNEL AND THE SUBSTRATE CONSISTS OF SAND AND GRAVEL. THE SITE WAS USED FOR SAMPLING BEGINNING IN 1994. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0133

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/94-08/10/95	2	22.25	22.25	23.5	21.	3.125	1.768	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	07/01/94-08/10/95	2	296.	296.	330.	262.	2312.	48.083	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/01/94-08/10/95	2	8.3	8.3	8.9	7.7	0.72	0.849	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	07/01/94-08/10/95	2	8.15	8.15	8.3	8.	0.045	0.212	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/01/94-08/10/95	2	8.125	8.125	8.3	8.	0.046	0.215	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/01/94-08/10/95	2	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0133

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00							1	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0134

NPS Station ID: SLBE0134 LAT/LON: 44.947504/ -85.886392

Location: SUCKER CR. @ L.MICH.RD.CLEVELAND TWP. SEC.4

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 04060104

Major Basin: MAJ BASIN:LAKE MICHIGAN

Minor Basin: MIN BASIN:PLATTE RIVER

RF1 Index: 04060104

RF3 Index: 04060104000500.00

Description:

SUCKER CREEK AT LAKE MICHIGAN ROAD CLEVELAND TOWNSHIP SECTION 4, T29N,R13W, IN LEEANAU COUNTY.

THIS STATION IS USED TO DETERMINE WATER QUALITY ENTERING LAKE MICHIGAN AND A MAGELLAN GPS, NAV 5000D WAS USED TO DETERMINE THE SITE LOCATION.

Agency: 21MICH

FIPS State/County: 26089 MICHIGAN/LEELANAU

STORET Station ID(s): 450131

Within Park Boundary: Yes

Date Created: 08/07/93

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 5.47

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 2.70

Distance from RF3: 0.76

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: SLBE0134

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/93-09/28/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/28/93-09/28/93	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/93-09/28/93	1	334.	334.	334.	334.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	09/28/93-09/28/93	1	8.09	8.09	8.09	8.09	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	09/28/93-09/28/93	1	8.09	8.09	8.09	8.09	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/93-09/28/93	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	09/28/93-09/28/93	1	138.	138.	138.	138.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	09/28/93-09/28/93	1	222.	222.	222.	222.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/28/93-09/28/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/28/93-09/28/93	1	0.057	0.057	0.057	0.057	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	09/28/93-09/28/93	1	0.093	0.093	0.093	0.093	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/28/93-09/28/93	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/28/93-09/28/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/28/93-09/28/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	09/28/93-09/28/93	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	09/28/93-09/28/93	1	161.	161.	161.	161.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	09/28/93-09/28/93	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/28/93-09/28/93	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	09/28/93-09/28/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	09/28/93-09/28/93	1	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	09/28/93-09/28/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS Ba)	09/28/93-09/28/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	09/28/93-09/28/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	09/28/93-09/28/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	09/28/93-09/28/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	09/28/93-09/28/93	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	09/28/93-09/28/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	09/28/93-09/28/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: SLBE0134

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01062 MOLYBDENUM, TOTAL (UG/L AS MO)	09/28/93-09/28/93	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	09/28/93-09/28/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	09/28/93-09/28/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01087 VANADIUM, TOTAL (UG/L AS V)	09/28/93-09/28/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	09/28/93-09/28/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	09/28/93-09/28/93	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	09/28/93-09/28/93	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	09/28/93-09/28/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01152 TITANIUM, TOTAL (UG/L AS TI)	09/28/93-09/28/93	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
47004 SOLIDS,TOTAL DISSOLVED (ELECT-CONDUCTIVITY) MG/L	09/28/93-09/28/93	1	217.	217.	217.	217.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	09/28/93-09/28/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0134

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01007 BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
	Drinking Water	4.	1	0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
	Drinking Water	5.	1	0	0.00	1	0	0.00									
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	1	0	0.00	1	0	0.00									
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
	Drinking Water	6.	1	0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0135

NPS Station ID: SLBE0135
 Location: SHELL LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060104
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060104
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 44.950392/ -85.902031

Depth of Water: 0
 Elevation: 179

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L06
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

SHELL LAKE LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. THE SITE IS LOCATED IN THE DEEPEST AREA OF SHELL LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0135

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/90-08/09/95	43	22.	22.03	27.	11.5	17.147	4.141	11.7	22.	24.4	26.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/30/93-08/09/95	16	22.	20.438	30.	9.	75.063	8.664	9.	9.	30.	30.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/26/90-08/09/95	6	3.05	3.083	3.5	2.5	0.126	0.354	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	08/02/94-08/09/95	2	193.5	193.5	233.	154.	3120.5	55.861	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/26/90-08/09/95	43	8.6	8.381	9.6	6.7	0.609	0.78	6.7	8.1	8.8	9.3
00406 PH, FIELD, STANDARD UNITS SU	07/26/90-08/09/95	9	8.8	8.753	9.2	8.2	0.114	0.337	8.2	8.5	9.05	9.2
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/26/90-08/09/95	9	8.8	8.64	9.2	8.2	0.128	0.358	8.2	8.5	9.05	9.2
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/90-08/09/95	9	0.002	0.002	0.006	0.001	0.	0.002	0.001	0.001	0.003	0.006
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/26/90-08/07/92	4	96.	99.	112.	92.	78.667	8.869	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/95-08/09/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/26/90-08/07/92	4	0.56	0.585	0.8	0.42	0.038	0.195	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/26/90-08/07/92	4 ##	0.02	0.039	0.1	0.015	0.002	0.041	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/26/90-08/09/95	6 ##	0.007	0.013	0.04	0.004	0.	0.014	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/26/90-08/02/94	4	1.25	1.225	1.4	1.	0.042	0.206	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	08/02/94-08/02/94	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/26/90-08/07/92	4	1.	1.05	1.3	0.9	0.03	0.173	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0135

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE																
	Other-Lo Lim.	4.	43	0	0.00	35	0	0.00							8	0	0.00
00406	PH, FIELD														1	0	0.00
	Other-Hi Lim.	9.	9	2	0.22	8	2	0.25									
	Other-Lo Lim.	6.5	9	0	0.00	8	0	0.00							1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N																
	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL I DET.														1	0	0.00
	Drinking Water	10.	4	0	0.00	3	0	0.00									
82078	TURBIDITY, FIELD														1	0	0.00
	Other-Hi Lim.	50.	4	0	0.00	3	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0136

NPS Station ID: SLBE0136	LAT/LON: 44.953698/ -85.902837	Agency: 11NPSWRD	Date Created: 03/09/96
Location: SHELL LAKE NUTRIENT SAMPLING		FIPS State/County: 26089 MICHIGAN/LEELANAU	
Station Type: /TYPA/AMBNT/LAKE		STORET Station ID(s): SLBE_L29	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 04060104	Depth of Water: 0	Aquifer:	
Major Basin: MICHIGAN	Elevation: 179	Water Body Id:	
Minor Basin: PLATTE RIVER		ECO Region:	
RF1 Index: 04060104	RF1 Mile Point: 0.000	Distance from RF1: 2.70	On/Off RF1:
RF3 Index: 04060104000500.00	RF3 Mile Point: 5.47	Distance from RF3: 0.76	On/Off RF3:
Description:			
SHELL LAKE LIES IN THE LAKES WATERSHED WHICH APPEARS TO BE PRIMARILY GROUNDWATER FED. THE SITE WAS USED FOR NUTRIENT SAMPLING IN 1994. IT IS LOCATED ALONG THE NORTHERN SHORELINE OF THE LAKE. SITE IS LOCATED ON THE GLEN ARBOR MICHIGAN 7.5 MINUTE SERIES (TOPO) QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.			

Parameter Inventory for Station: SLBE0136

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/25/94-07/25/94	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/25/94-07/25/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	07/25/94-07/25/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0136

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
															1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0137

NPS Station ID: SLBE0137
 Location: FLORENCE LAKE SOUTH MANITOU ISLAND MI
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.008892/ -86.121670

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450032086071801
 Within Park Boundary: Yes

Date Created: 08/14/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0137

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1	108.	108.	108.	108.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	1	113.	113.	113.	113.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	1	57.	57.	57.	57.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	1	140.	140.	140.	140.	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0137

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00											1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0137

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0138

NPS Station ID: SLBE0138
 Location: FLORENCE LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.010031/ -86.120754

Depth of Water: 0
 Elevation: 182

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L15
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

FLORENCE LAKE IS LOCATED ON SOUTH MANITOU ISLAND. THE SITE IS LOCATED IN THE DEEPEST AREA OF FLORENCE LAKE AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE SOUTH MANITOU ISLAND MICHIGAN 7.5 MINUTE SERIES QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0138

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-08/01/90	9	23.	22.444	23.	19.	1.778	1.333	19.	22.5	23.	23.
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-08/01/90	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/01/90-08/01/90	9	7.3	6.478	7.7	1.5	4.257	2.063	1.5	6.05	7.5	7.7
00406 PH, FIELD, STANDARD UNITS SU	08/01/90-08/01/90	2	8.4	8.4	8.5	8.3	0.02	0.141	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	08/01/90-08/01/90	2	8.389	8.389	8.5	8.3	0.02	0.142	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/90-08/01/90	2	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/01/90-08/01/90	2	48.	48.	48.	48.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-08/01/90	2	0.55	0.55	0.6	0.5	0.005	0.071	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-08/01/90	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-08/01/90	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-08/01/90	2	2.25	2.25	2.8	1.7	0.605	0.778	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	08/01/90-08/01/90	2	0.7	0.7	0.9	0.5	0.08	0.283	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0138

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	1	0.11	9	1	0.11									
00406 PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
	Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0138

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0139

NPS Station ID: SLBE0139
 Location: THE SPRING
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.089170/ -85.991670

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450521085593001
 Within Park Boundary: Yes

Date Created: 09/25/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0139

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	348.	348.	348.	348.	0.	0.	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/82-07/27/82	1	200.	200.	200.	200.	0.	0.	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	07/27/82-07/27/82	1	49.	49.	49.	49.	0.	0.	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	1	18.	18.	18.	18.	0.	0.	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	07/27/82-07/27/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**
00931	SODIUM ADSORPTION RATIO	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	1	13.	13.	13.	13.	0.	0.	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	07/27/82-07/27/82	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	1	204.	204.	204.	204.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0139

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00									1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00
		Other-Hi Lim.	9.	1	0	0.00									1	0	0.00
00403	PH, LAB	Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00
		Drinking Water	10.	1	0	0.00									1	0	0.00
		Fresh Acute	860.	1	0	0.00									1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00									1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Drinking Water	250.	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0140

NPS Station ID: SLBE0140
 Location: ANGELL SPRING
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.091670/ -86.004170

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450530086001501
 Within Park Boundary: Yes

Date Created: 09/25/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0140

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	07/27/82-07/27/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	313.	313.	313.	313.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/27/82-07/27/82	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/82-07/27/82	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/27/82-07/27/82	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/27/82-07/27/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	07/27/82-07/27/82	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	1	182.	182.	182.	182.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0140

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0140

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0141

NPS Station ID: SLBE0141
 Location: TAMARACK LAKE NORTH MANITOU ISLAND MI
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.100003/ -86.035837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450600086020901
 Within Park Boundary: Yes

Date Created: 09/25/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0141

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	24.5	24.5	24.5	24.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/27/82-07/27/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/27/82-07/27/82	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/27/82-07/27/82	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/27/82-07/27/82	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/82-07/27/82	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/27/82-07/27/82	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/27/82-07/27/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	07/27/82-07/27/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	07/27/82-07/27/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	1	35.	35.	35.	35.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/82-07/27/82	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0141

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0141

Parameter	Std. Type	Std. Value	Total		Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Exceed Standard		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00631 NITRITE PLUS NITRATE, DISS. I DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0142

NPS Station ID: SLBE0142
 Location: UNNAMED CREEK NR TAMARACK LAKE, MI.
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.100003/ -86.040005

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450600086022401
 Within Park Boundary: Yes

Date Created: 09/25/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0142

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-07/27/82	1	13.	13.	13.	13.	0.	0.	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/82-07/27/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-07/27/82	1	376.	376.	376.	376.	0.	0.	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/82-07/27/82	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/27/82-07/27/82	1	98.	98.	98.	98.	0.	0.	**	**	**
00400	PH (STANDARD UNITS)	07/27/82-07/27/82	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-07/27/82	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/27/82-07/27/82	1	8.	8.	8.	8.	0.	0.	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/82-07/27/82	1	8.	8.	8.	8.	0.	0.	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-07/27/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/82-07/27/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/27/82-07/27/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/27/82-07/27/82	1	210.	210.	210.	210.	0.	0.	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	07/27/82-07/27/82	1	51.	51.	51.	51.	0.	0.	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/82-07/27/82	1	19.	19.	19.	19.	0.	0.	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	07/27/82-07/27/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**
00931	SODIUM ADSORPTION RATIO	07/27/82-07/27/82	1	0.	0.	0.	0.	0.	0.	**	**	**
00932	SODIUM, PERCENT	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/82-07/27/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	07/27/82-07/27/82	1	1.	1.	1.	1.	0.	0.	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/82-07/27/82	1	14.	14.	14.	14.	0.	0.	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	07/27/82-07/27/82	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/27/82-07/27/82	1	215.	215.	215.	215.	0.	0.	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	07/27/82-07/27/82	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/27/82-07/27/82	1	0.29	0.29	0.29	0.29	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0142

			Total	Exceed	Prop.	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00									1	0	0.00
00400	PH	Other-Hi Lim.	9.	1	0	0.00									1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0142

Parameter	Std. Type	Std. Value	Total			-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
	Fresh Acute	860.	1	0	0.00										1	0	0.00
00940 CHLORIDE, TOTAL IN WATER	Drinking Water	250.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0143

NPS Station ID: SLBE0143
 Location: OPEN WATER
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: GREAT LAKES
 Minor Basin: LAKE MICHIGAN
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.120004/ -86.073337

Depth of Water: 22
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 31UMGLSB
 FIPS State/County: 26998 MICHIGAN/
 STORET Station ID(s): NCM022
 Within Park Boundary: No

Date Created: 12/07/77

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/76-10/10/76	10	12.25	12.46	19.1	3.8	30.027	5.48	3.8	8.45	16.925	19.07
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/24/76-10/10/76	9	32.1	35.133	67.	5.2	429.56	20.726	5.2	17.85	55.7	67.
00078	TRANSPARENCY, SECCHI DISC (METERS)	04/24/76-10/10/76	5	6.9	6.14	8.	3.3	3.313	1.82	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/76-10/10/76	8	270.5	270.375	272.	269.	1.125	1.061	**	**	**	**
00400	PH (STANDARD UNITS)	06/05/76-10/10/76	8	8.585	8.569	8.65	8.47	0.005	0.07	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/05/76-10/10/76	8	8.585	8.564	8.65	8.47	0.005	0.07	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/76-10/10/76	8	0.003	0.003	0.003	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	04/24/76-10/10/76	5	108.	107.2	111.	100.	20.7	4.55	**	**	**	**
00601	NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	07/14/76-10/10/76	3	0.03	0.03	0.04	0.02	0.	0.01	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/24/76-10/10/76	9	0.007	0.007	0.013	0.003	0.	0.003	0.003	0.004	0.01	0.013
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/24/76-10/10/76	10	0.2	0.18	0.2	0.1	0.002	0.042	0.1	0.175	0.2	0.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/76-10/10/76	10	0.006	0.008	0.021	0.004	0.	0.005	0.004	0.005	0.01	0.02
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/24/76-08/14/76	8	0.003	0.003	0.005	0.002	0.	0.001	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/14/76-08/14/76	3	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00694	CARBON, SUSPENDE TOTAL (MG/L AS C)	07/14/76-10/10/76	3	0.34	0.313	0.35	0.25	0.003	0.055	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/76-10/10/76	10	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00955	SILICA, DISSOLVED (MG/L AS SiO2)	04/24/76-10/10/76	10	0.5	0.46	1.1	0.1	0.129	0.36	0.1	0.1	0.625	1.09
00957	SILICA, SUSPENDE (MG/L AS SiO2)	04/24/76-10/10/76	10	0.35	0.36	0.6	0.2	0.023	0.151	0.2	0.2	0.45	0.6
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/24/76-10/10/76	10	1.3	1.59	2.4	1.	0.305	0.553	1.01	1.175	2.175	2.4
70961	PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	04/24/76-10/10/76	5	240.	199.68	314.4	45.6	11578.752	107.605	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0143

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00						4	0	0.00
		Other-Lo Lim.	6.5	8	0	0.00	4	0	0.00						4	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	10	0	0.00	4	0	0.00						6	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	10	0	0.00	4	0	0.00						6	0	0.00
		Drinking Water	250.	10	0	0.00	4	0	0.00						6	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0144

NPS Station ID: SLBE0144
 Location: LAKE MANITOU, NORTH MANITOU ISLAND, MI.
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.120837/ -86.020003

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450715086011201
 Within Park Boundary: Yes

Date Created: 09/25/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0144

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/82-07/26/82	1	24.5	24.5	24.5	24.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/82-07/26/82	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/26/82-07/26/82	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/26/82-07/26/82	1	113.	113.	113.	113.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/26/82-07/26/82	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/26/82-07/26/82	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/82-07/26/82	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/26/82-07/26/82	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/26/82-07/26/82	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/82-07/26/82	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/26/82-07/26/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/26/82-07/26/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/26/82-07/26/82	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/26/82-07/26/82	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/82-07/26/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/26/82-07/26/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	07/26/82-07/26/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	07/26/82-07/26/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/26/82-07/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	07/26/82-07/26/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/26/82-07/26/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	07/26/82-07/26/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/82-07/26/82	1	132.	132.	132.	132.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/26/82-07/26/82	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0144

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0144

Parameter	Std. Type	Std. Value	Total		Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Exceed Standard		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00631 NITRITE PLUS NITRATE, DISS. I DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0145

NPS Station ID: SLBE0145
 Location: LAKE MANITOU
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: MICHIGAN
 Minor Basin: PLATTE RIVER
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.128281/ -86.024477

Depth of Water: 0
 Elevation: 199

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 11NPSWRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): SLBE_L18
 Within Park Boundary: Yes

Date Created: 03/09/96

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

LAKE MANITOU IS LOCATED ON NORTH MANITOU ISLAND. THE SITE IS LOCATED IN THE DEEPEST AREA OF LAKE MANITOU AND WAS FOUND BY USING BATHYMETRIC MAPS AND SONAR. SITE IS LOCATED ON THE NORTH MANITOU ISLAND MICHIGAN 7.5 MINUTE SERIES QUADRANGLE. IT IS THE RESPONSIBILITY OF SLEEPING BEAR DUNES NATIONAL LAKESHORE P.O. BOX 277 9922 FRONT STREET - EMPIRE MICHIGAN 49630 PH(616) 326-5134. FOR MORE INFORMATION CONTACT STEVE YANCHO - RESOURCE MANAGEMENT AT SLEEPING BEAR DUNES NATIONAL LAKESHORE. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS COLORADO. PHONE (970) 225-3556 FAX (970) 225-9965.

Parameter Inventory for Station: SLBE0145

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/90-07/31/90	16	20.5	18.813	23.	11.5	15.996	3.999	11.85	15.25	22.	23.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/31/90-07/31/90	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/31/90-07/31/90	16	6.45	4.981	8.5	0.3	11.959	3.458	0.37	0.675	8.325	8.43
00406 PH, FIELD, STANDARD UNITS SU	07/31/90-07/31/90	2	8.95	8.95	9.	8.9	0.005	0.071	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	07/31/90-07/31/90	2	8.947	8.947	9.	8.9	0.005	0.071	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/90-07/31/90	2	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/31/90-07/31/90	2	121.	121.	122.	120.	2.	1.414	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/31/90-07/31/90	2	0.9	0.9	1.1	0.7	0.08	0.283	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/31/90-07/31/90	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/31/90-07/31/90	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/31/90-07/31/90	2	2.35	2.35	2.4	2.3	0.005	0.071	**	**	**	**
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	07/31/90-07/31/90	2	5.4	5.4	6.5	4.3	2.42	1.556	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0145

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	16	6	0.38										16	6	0.38
00406 PH, FIELD	Other-Hi Lim.	9.	2	1	0.50										2	1	0.50
	Other-Lo Lim.	6.5	2	0	0.00										2	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0145

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0146

NPS Station ID: SLBE0146
 Location: OPEN WATER
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin: LAKE MICHIGAN
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.128337/ -86.133337

Depth of Water: 246
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 31UMGLSB
 FIPS State/County: 26998 MICHIGAN/
 STORET Station ID(s): NCM023 /230
 Within Park Boundary: No

Date Created: 09/15/76

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

THESE STATIONS WERE SAMPLED ABOVE AT AND BELOW THE THERMOCLINE ON THE UNIVERSITY OF MICHIGAN RESEARCH VESSAL LAURENTIAN FOR THE SUMMER OF 197
 UNDER CONTRACT TO ENVIRONMENTAL PROTECTION AGENCY,REGION 5,ROBERT BOWDEN CHIEF-GREAT LAKES SURVEILLANCE BRANCH,312-353-5826.

Parameter Inventory for Station: SLBE0146

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/76-10/10/76	32	6.05	7.875	18.9	3.2	19.242	4.387	3.2	4.425	11.25	14.75
00031 LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/24/76-10/10/76	13	13.5	15.9	44.5	0.3	233.255	15.273	0.38	1.7	27.65	42.02
00078 TRANSPARENCY, SECCHI DISC (METERS)	04/24/76-10/10/76	5	6.5	6.2	8.5	3.2	4.895	2.212	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/76-10/10/76	27	273.	272.593	276.	267.	4.943	2.223	269.4	271.	275.	275.
00400 PH (STANDARD UNITS)	06/05/76-10/10/76	27	8.35	8.407	8.66	8.2	0.02	0.142	8.234	8.31	8.55	8.61
00400 CONVERTED PH (STANDARD UNITS)	06/05/76-10/10/76	27	8.35	8.386	8.66	8.2	0.021	0.143	8.234	8.31	8.55	8.61
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/76-10/10/76	27	0.004	0.004	0.006	0.002	0.	0.001	0.002	0.003	0.005	0.006
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/24/76-10/10/76	5	110.	109.4	111.	107.	3.3	1.817	**	**	**	**
00601 NITROGEN TOTAL NON-FILTERABLE (MG/L AS N)	08/14/76-10/10/76	2	0.025	0.025	0.03	0.02	0.	0.007	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/24/76-10/10/76	25	0.008	0.009	0.028	0.002	0.	0.006	0.003	0.006	0.013	0.019
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/24/76-10/10/76	32	0.2	0.228	0.3	0.1	0.003	0.058	0.2	0.2	0.3	0.3
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/24/76-10/10/76	31	0.007	0.007	0.011	0.005	0.	0.001	0.006	0.006	0.008	0.009
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	04/24/76-08/14/76	24	0.003	0.003	0.005	0.002	0.	0.001	0.003	0.003	0.004	0.004
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/14/76-08/14/76	9	0.001	0.001	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.003
00694 CARBON, SUSPENDED TOTAL (MG/L AS C)	07/14/76-10/10/76	3	0.33	0.327	0.38	0.27	0.003	0.055	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	04/24/76-10/10/76	32	8.	7.969	8.	7.	0.031	0.177	8.	8.	8.	8.
00955 SILICA, DISSOLVED (MG/L AS SiO2)	04/24/76-10/10/76	32	0.8	0.809	1.4	0.1	0.14	0.374	0.2	0.525	1.1	1.2
00957 SILICA, SUSPENDED (MG/L AS SiO2)	04/24/76-10/10/76	32	0.5	0.5	1.2	0.2	0.043	0.208	0.3	0.4	0.575	0.8
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	04/24/76-10/10/76	32	1.55	1.741	6.	0.2	1.638	1.28	0.53	0.8	1.975	4.07
70961 PRODUCTIVITY, PRIMARY, GROSS (MGC/CU M/DAY)	04/24/76-10/10/76	5	261.6	234.24	360.	100.8	9332.928	96.607	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0146

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Other-Hi Lim.	9.	27	0	0.00	17	0	0.00							10	0	0.00
	Other-Lo Lim.	6.5	27	0	0.00	17	0	0.00							10	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	32	0	0.00	17	0	0.00							15	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0146

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	32	0	0.00	17	0	0.00							15	0	0.00
	Drinking Water	250.	32	0	0.00	17	0	0.00							15	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0147

NPS Station ID: SLBE0147
Location: LAKE MICHIGAN OPEN LAKE
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 04060200
Major Basin: LAKE MICHIGAN
Minor Basin: NORTHERN BASIN
RF1 Index: 04060200
RF3 Index: 04060104000500.00
Description:

LAT/LON: 45.128337/ -86.133337

Depth of Water: 246
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 5.47

Agency: 1115GLSB
FIPS State/County: 26998 MICHIGAN/
STORET Station ID(s): L. MICH 48
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 2.70
Distance from RF3: 0.76

Date Created: 05/16/81

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: SLBE0147

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: SLBE0148

NPS Station ID: SLBE0148
 Location: UNNAMED SPRING
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200
 Major Basin:
 Minor Basin:
 RF1 Index: 04060200
 RF3 Index: 04060104000500.00
 Description:

LAT/LON: 45.148337/ -85.988337

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.47

Agency: 112WRD
 FIPS State/County: 26089 MICHIGAN/LEELANAU
 STORET Station ID(s): 450854085591801
 Within Park Boundary: Yes

Date Created: 09/25/82

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0148

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/82-07/26/82	1	15.	15.	15.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/26/82-07/26/82	1	0.1	0.1	0.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/82-07/26/82	1	412.	412.	412.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/26/82-07/26/82	1	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/26/82-07/26/82	1	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/82-07/26/82	1	0.02	0.02	0.02	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/26/82-07/26/82	1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/26/82-07/26/82	1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/82-07/26/82	1	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/26/82-07/26/82	1	0.5	0.5	0.5	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/26/82-07/26/82	1	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/26/82-07/26/82	1	240.	240.	240.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	07/26/82-07/26/82	1	58.	58.	58.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/82-07/26/82	1	22.	22.	22.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/82-07/26/82	1	2.2	2.2	2.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/26/82-07/26/82	1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/26/82-07/26/82	1	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/82-07/26/82	1	0.3	0.3	0.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/82-07/26/82	1	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/82-07/26/82	1	16.	16.	16.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	07/26/82-07/26/82	1	13.	13.	13.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/82-07/26/82	1	249.	249.	249.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0148

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00									1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00									1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00									1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00									1	0	0.00
		Drinking Water	250.	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: SLBE0148

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: SLBE0149

NPS Station ID: SLBE0149 LAT/LON: 45.163060/ -86.085281
 Location: L MANISTEE R AT RIVER DV NEAR FREESOIL, MICH. .
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 04060200 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 04060200 RF1 Mile Point: 0.000
 RF3 Index: 04060104000500.00 RF3 Mile Point: 5.47
 Description:

Agency: 112WRD
 FIPS State/County: 26105 MICHIGAN/MASON
 STORET Station ID(s): 04126190
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.70
 Distance from RF3: 0.76

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: SLBE0149

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/23/71-06/23/71	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/23/71-06/23/71	1	141.	141.	141.	141.	0.	0.	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/23/71-06/23/71	1	1.	1.	1.	1.	0.	0.	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/23/71-06/23/71	1	20.	20.	20.	20.	0.	0.	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/23/71-06/23/71	1	280.	280.	280.	280.	0.	0.	**	**	**
00400	PH (STANDARD UNITS)	06/23/71-06/23/71	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/23/71-06/23/71	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/23/71-06/23/71	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/23/71-06/23/71	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/23/71-06/23/71	1	140.	140.	140.	140.	0.	0.	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/23/71-06/23/71	1	171.	171.	171.	171.	0.	0.	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/23/71-06/23/71	1	0.	0.	0.	0.	0.	0.	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/23/71-06/23/71	1	148.	148.	148.	148.	0.	0.	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/23/71-06/23/71	1	8.	8.	8.	8.	0.	0.	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/23/71-06/23/71	1	5.	5.	5.	5.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: SLBE0149

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00									1	0	0.00
00400	PH	Other-Hi Lim.	9.	1	0	0.00									1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00									1	0	0.00
		Drinking Water	250.	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire SLBE Study Area

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	351	0	0.00	125	0	0.00	60	0	0.00	56	0	0.00	110	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	462	0	0.00	205	0	0.00	59	0	0.00	33	0	0.00	165	0	0.00
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1624 &	311	0.19	867	189	0.22	99	2	0.02	35	2	0.06	623	118	0.19
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2642 &	307	0.12	1011	206	0.20	409	1	0.00	279	4	0.01	943	96	0.10
00400	PH	Other-Hi Lim.	9.	2078	7	0.00	826	7	0.01	326	0	0.00	195	0	0.00	731	0	0.00
00403	PH, LAB	Other-Lo Lim.	6.5	2078	0	0.00	826	0	0.00	326	0	0.00	195	0	0.00	731	0	0.00
		Other-Hi Lim.	9.	172	0	0.00	86	0	0.00	1	0	0.00				85	0	0.00
		Other-Lo Lim.	6.5	172	0	0.00	86	0	0.00	1	0	0.00				85	0	0.00
00406	PH, FIELD	Other-Hi Lim.	9.	461	9	0.02	201	7	0.03							260	2	0.01
		Other-Lo Lim.	6.5	461	0	0.00	201	0	0.00							260	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	363	0	0.00	129	0	0.00	72	0	0.00	56	0	0.00	106	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	154	0	0.00	43	0	0.00	16	0	0.00	3	0	0.00	92	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	22	0	0.00	12	0	0.00							10	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	514	0	0.00	191	0	0.00	88	0	0.00	61	0	0.00	174	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	727	0	0.00	321	0	0.00	50	0	0.00	36	0	0.00	320	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	90	0	0.00	46	0	0.00							44	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	40	0	0.00	26	0	0.00							14	0	0.00
		Drinking Water	0.2	40	0	0.00	26	0	0.00							14	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	8	0	0.00	8	0	0.00									
		Drinking Water	200.	8	0	0.00	8	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	519	0	0.00	218	0	0.00	48	0	0.00	34	0	0.00	219	0	0.00
		Drinking Water	250.	519	0	0.00	218	0	0.00	48	0	0.00	34	0	0.00	219	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	252	0	0.00	119	0	0.00							133	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	68	0	0.00	29	0	0.00	10	0	0.00	14	0	0.00	15	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	47	0	0.00	27	0	0.00	4	0	0.00				16	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	12	0	0.00	10	0	0.00							2	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	38	0	0.00	24	0	0.00							14	0	0.00
		Drinking Water	50.	38	0	0.00	24	0	0.00							14	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	28	0	0.00	17	0	0.00	4	0	0.00				7	0	0.00
		Drinking Water	50.	28	0	0.00	17	0	0.00	4	0	0.00				7	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	34	0	0.00	20	0	0.00							14	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	12	0	0.00	8	0	0.00							4	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	4	0	0.00										4	0	0.00
		Drinking Water	4.	4	0	0.00										4	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	15	0	0.00	9	0	0.00	4	0	0.00				2	0	0.00
		Drinking Water	4.	7 &	0	0.00	7	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	36	2	0.06	22	0	0.00							14	2	0.14
		Drinking Water	5.	36	1	0.03	22	0	0.00							14	1	0.07
01027	CADMIUM, TOTAL	Fresh Acute	3.9	39	1	0.03	27	0	0.00	4	0	0.00				8	1	0.13
		Drinking Water	5.	39	0	0.00	27	0	0.00	4	0	0.00				8	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	36	0	0.00	22	0	0.00							14	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	8	0	0.00	5	0	0.00							3	0	0.00
		Drinking Water	100.	8	0	0.00	5	0	0.00							3	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	39	0	0.00	27	0	0.00	4	0	0.00				8	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	7	0	0.00	2	0	0.00							5	0	0.00
		Drinking Water	1300.	7	0	0.00	2	0	0.00							5	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	45	4	0.09	33	4	0.12	4	0	0.00				8	0	0.00
		Drinking Water	1300.	45	0	0.00	33	0	0.00	4	0	0.00				8	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	36	0	0.00	22	0	0.00							14	0	0.00
		Drinking Water	15.	36	0	0.00	22	0	0.00							14	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	39	0	0.00	27	0	0.00	4	0	0.00				8	0	0.00
		Drinking Water	15.	39	2	0.05	27	0	0.00	4	0	0.00				8	2	0.25
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	7	0	0.00	2	0	0.00							5	0	0.00
		Drinking Water	100.	7	0	0.00	2	0	0.00							5	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	39	0	0.00	27	0	0.00	4	0	0.00				8	0	0.00
		Drinking Water	100.	39	0	0.00	27	0	0.00	4	0	0.00				8	0	0.00
01075	SILVER, DISSOLVED	Fresh Acute	4.1	36	0	0.00	22	0	0.00							14	0	0.00
		Drinking Water	100.	36	0	0.00	22	0	0.00							14	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	27	0	0.00	20	0	0.00							7	0	0.00
		Drinking Water	100.	27	0	0.00	20	0	0.00							7	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	36	0	0.00	22	0	0.00							14	0	0.00
		Drinking Water	5000.	36	0	0.00	22	0	0.00							14	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire SLBE Study Area

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01092 ZINC, TOTAL	Fresh Acute	120.	44	2	0.05	33	1	0.03	4	0	0.00				7	1	0.14
	Drinking Water	5000.	44	0	0.00	33	0	0.00	4	0	0.00				7	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	4	0	0.00	4	0	0.00									
	Drinking Water	6.	4	0	0.00	4	0	0.00									
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	31	0	0.00	21	0	0.00							10	0	0.00
	Drinking Water	50.	31	0	0.00	21	0	0.00							10	0	0.00
01146 SELENIUM, SUSPENDED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	24	0	0.00	16	0	0.00	4	0	0.00				4	0	0.00
	Drinking Water	50.	24	0	0.00	16	0	0.00	4	0	0.00				4	0	0.00
07000 TRITIUM, TOTAL	Drinking Water	20000.	2	0	0.00	2	0	0.00									
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31504 COLIFORM.TOT.MEMBRANE FILTR.IMMED. LES-E	Other-Hi Lim.	1000.	792	231	0.29	276	115	0.42	91	7	0.08	51	5	0.10	374	104	0.28
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	936	9	0.01	324	4	0.01	127	0	0.00	74	0	0.00	411	5	0.01
31625 FECAL COLIFORM, MF	Other-Hi Lim.	200.	4	0	0.00	4	0	0.00									
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	4	0	0.00	2	0	0.00							2	0	0.00
39331 ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	12	0	0.00	11	0	0.00							1	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	4	0	0.00	2	0	0.00							2	0	0.00
	Drinking Water	0.2	4	0	0.00	2	0	0.00							2	0	0.00
39341 GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	12	0	0.00	11	0	0.00							1	0	0.00
	Drinking Water	0.2	12	0	0.00	11	0	0.00							1	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	4	0	0.00	2	0	0.00							2	0	0.00
	Drinking Water	2.	4	0	0.00	2	0	0.00							2	0	0.00
39352 CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	12	0	0.00	11	0	0.00							1	0	0.00
	Drinking Water	2.	12	0	0.00	11	0	0.00							1	0	0.00
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	4	0	0.00	2	0	0.00							2	0	0.00
39361 DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	12	0	0.00	11	0	0.00							1	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	119	0	0.00	52	0	0.00	20	0	0.00	15	0	0.00	32	0	0.00
39366 DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	12	0	0.00	11	0	0.00							1	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	119	0	0.00	52	0	0.00	20	0	0.00	15	0	0.00	32	0	0.00
39371 DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	12	0	0.00	11	0	0.00							1	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	108	0	0.00	47	0	0.00	20	0	0.00	15	0	0.00	26	0	0.00
39381 DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	12	0	0.00	11	0	0.00							1	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	4	0	0.00	2	0	0.00							2	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	4	0	0.00	2	0	0.00							2	0	0.00
	Drinking Water	2.	4	0	0.00	2	0	0.00							2	0	0.00
39391 ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	12	0	0.00	11	0	0.00							1	0	0.00
	Drinking Water	2.	12	0	0.00	11	0	0.00							1	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	4	0	0.00	2	0	0.00							2	0	0.00
	Drinking Water	3.	4	0	0.00	2	0	0.00							2	0	0.00
39401 TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	12	0	0.00	11	0	0.00							1	0	0.00
	Drinking Water	3.	12	0	0.00	11	0	0.00							1	0	0.00
39410 HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	4	0	0.00	2	0	0.00							2	0	0.00
	Drinking Water	0.4	4	0	0.00	2	0	0.00							2	0	0.00
39411 HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	12	0	0.00	11	0	0.00							1	0	0.00
	Drinking Water	0.4	12	0	0.00	11	0	0.00							1	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	4	0	0.00	2	0	0.00							2	0	0.00
	Drinking Water	0.2	4	0	0.00	2	0	0.00							2	0	0.00
39421 HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	12	0	0.00	11	0	0.00							1	0	0.00
	Drinking Water	0.2	12	0	0.00	11	0	0.00							1	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	4	0	0.00	2	0	0.00							2	0	0.00
39540 PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	4	0	0.00	2	0	0.00							2	0	0.00
39730 2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	4	0	0.00	2	0	0.00							2	0	0.00
39732 2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	12	0	0.00	11	0	0.00							1	0	0.00
39760 SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	4	0	0.00	2	0	0.00							2	0	0.00
39762 SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	12	0	0.00	11	0	0.00							1	0	0.00
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	21	0	0.00	12	0	0.00							9	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	22	0	0.00	12	0	0.00							10	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	34	0	0.00	20	0	0.00							14	0	0.00
	Drinking Water	2.	34	0	0.00	20	0	0.00							14	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	33	0	0.00	22	0	0.00	4	0	0.00				7	0	0.00
	Drinking Water	2.	33	0	0.00	22	0	0.00	4	0	0.00				7	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire SLBE Study Area

Parameter	Std. Type	Std. Value	Total		Exceed Standard	Prop. Exceeding	-----8/01-11/30-----			-----12/01-2/29-----			-----3/01-4/14-----			-----4/15-7/31-----		
			Obs				Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water 20.	1		0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim. 50.	294		0	0.00	149	0	0.00							145	0	0.00
82295	CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute 860000.	18		0	0.00	5	0	0.00	4	0	0.00	5	0	0.00	4	0	0.00
		Drinking Water 250000.	18		0	0.00	5	0	0.00	4	0	0.00	5	0	0.00	4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

**NPS Servicewide Inventory and Monitoring Program Level I
Water Quality Parameter Inventory Data Evaluation and Analysis:
Missing Level I Groups**

There are STORET Data for Every Level I I&M Parameter Group Within
the SLBE Study Area

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the SLBE Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CaCO ₃)	1579	1204	325	50	74
00430	ALKALINITY, CARBONATE (MG/L AS CaCO ₃)	134	0	131	3	4
00440	BICARBONATE ION (MG/L AS HCO ₃)	25	0	22	3	16
00445	CARBONATE ION (MG/L AS CO ₃)	26	0	23	3	16
		1764	1204	501	59	110 (74) ¹
pH		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	2081	1040	544	497	62
00403	PH, LAB (STANDARD UNITS)	172	0	168	4	26
00406	PH, FIELD (STANDARD UNITS)	461	461	0	0	36
		2714	1501	712	501	124 (99) ¹
Conductivity		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	623	361	262	0	40
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	600	8	461	131	56
		1223	369	723	131	96 (85) ¹
Dissolved Oxygen		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	1630	1630	0	0	36
00300	OXYGEN, DISSOLVED (MG/L)	2653	1556	555	542	52
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	42	0	32	10	14
		4325	3186	587	552	102 (87) ¹
Water Temperature		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	2805	1285	711	809	105
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	1692	1692	0	0	7
		4497	2977	711	809	112(112) ¹
Flow		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00060	FLOW, STREAM, MEAN DAILY CFS	17	0	0	17	3
00061	FLOW, STREAM, INSTANTANEOUS CFS	182	155	24	3	17
		199	155	24	20	20 (20) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	351	0	2	349	19
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10	0	0	10	1
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	462	8	409	45	43
00077	TRANSPARENCY, SECCHI DISC (INCHES)	566	428	134	4	12
00078	TRANSPARENCY, SECCHI DISC (METERS)	95	80	15	0	25
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	815	8	385	422	30
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	294	294	0	0	30
		2593	818	945	830	160 (81) ¹
Nitrate/Nitrogen		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	208	203	2	3	11
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	445	24	376	45	28
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	44	0	44	0	4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	937	60	393	484	55
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	22	0	22	0	12
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	517	30	16	471	46
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	573	315	235	23	51
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	729	320	380	29	52
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	90	0	90	0	22
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	1	0	1	0	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	24	0	22	2	14
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	22	0	22	0	12
		3612	952	1603	1057	308 (96) ¹
Phosphate/Phosphorus		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	7	6	0	1	7
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	1	0	0	1	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	6508	5540	516	452	93
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	80	0	77	3	23
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	182	0	169	13	7
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	603	8	393	202	29
		7381	5554	1155	672	160(112) ¹
Chlorophyll		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	597	404	191	2	51
		597	404	191	2	51 (51) ¹
Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	182	12	152	18	43
00945	SULFATE, TOTAL (MG/L AS SO4)	254	14	219	21	38
00946	SULFATE, DISSOLVED (MG/L AS SO4)	71	18	39	14	15
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	373	176	194	3	19
		880	220	604	56	115 (52) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Bacteria		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31504	COLIFORM, TOT, MEMBRANE FILTER, IMME,L-ENDAGAR,35C	792	0	37	755	27
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	936	0	178	758	27
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	10	0	10	0	10
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	9	0	9	0	9
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	3	0	0	3	1
		1750	0	234	1516	74 (38) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements		Total Obs.	01/01/85 to 10/01/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01097	ANTIMONY, TOTAL (UG/L AS SB)	4	4	0	0	4
01000	ARSENIC, DISSOLVED (UG/L AS AS)	38	4	32	2	19
01002	ARSENIC, TOTAL (UG/L AS AS)	28	12	16	0	13
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	4	4	0	0	4
01012	BERYLLIUM, TOTAL (UG/L AS BE)	15	8	4	3	11
01025	CADMIUM, DISSOLVED (UG/L AS CD)	36	4	32	0	18
01027	CADMIUM, TOTAL (UG/L AS CD)	39	12	17	10	15
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	36	4	32	0	18
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	8	8	0	0	4
01034	CHROMIUM, TOTAL (UG/L AS CR)	39	12	17	10	15
01040	COPPER, DISSOLVED (UG/L AS CU)	7	4	3	0	7
01042	COPPER, TOTAL (UG/L AS CU)	45	12	17	16	17
01049	LEAD, DISSOLVED (UG/L AS PB)	36	4	32	0	18
01051	LEAD, TOTAL (UG/L AS PB)	39	12	17	10	15
71890	MERCURY, DISSOLVED (UG/L AS HG)	34	4	30	0	16
71900	MERCURY, TOTAL (UG/L AS HG)	33	12	18	3	14
01065	NICKEL, DISSOLVED (UG/L AS NI)	7	4	3	0	7
01067	NICKEL, TOTAL (UG/L AS NI)	39	12	17	10	15
01145	SELENIUM, DISSOLVED (UG/L AS SE)	31	0	31	0	14
01146	SELENIUM, SUSPENDED (UG/L AS SE)	1	0	1	0	1
01147	SELENIUM, TOTAL (UG/L AS SE)	24	8	13	3	14
01075	SILVER, DISSOLVED (UG/L AS AG)	36	4	32	0	18
01077	SILVER, TOTAL (UG/L AS AG)	27	8	16	3	10
01090	ZINC, DISSOLVED (UG/L AS ZN)	36	4	32	0	18
01092	ZINC, TOTAL (UG/L AS ZN)	44	12	16	16	16
00720	CYANIDE, TOTAL (MG/L AS CN)	40	0	40	0	17
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	8	0	8	0	8
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	12	0	12	0	12
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	4	0	4	0	2
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	12	0	12	0	12
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	4	0	4	0	2
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	12	0	12	0	12
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	0	1	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	120	0	4	116	8
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	120	0	4	116	8
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	5	0	4	1	3
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	12	0	12	0	12
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	109	0	4	105	8
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	12	0	12	0	12
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	100	0	0	100	6
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0	2
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12	0	12	0	12
		1349	172	652	525	526 (31) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

Parameter Group	Total Obs.	Obs. Since 1985	% Obs. Since 1985	Stations Measuring This Group	% of Total Stations Measuring This Group	Obs. Per Station Measuring This Group	Period of Record For This Group	Observations Per Year of Period of Record
Alkalinity	1764	1204	68.3	74	53.2	23.8	06/08/62-10/01/96	51.4
pH	2714	1501	55.3	99	71.2	27.4	06/08/62-10/01/96	79.1
Conductivity	1223	369	30.2	85	61.2	14.4	06/08/62-08/10/95	36.9
Dissolved Oxygen	4325	3186	73.7	87	62.6	49.7	06/08/62-10/01/96	126.0
Water Temperature	4497	2977	66.2	112	80.6	40.2	06/08/62-10/01/96	131.0
Flow	199	155	77.9	20	14.4	9.9	11/06/67-09/03/96	6.9
Clarity/Turbidity	2593	818	31.5	81	58.3	32.0	06/08/62-10/01/96	75.6
Nitrate/Nitrogen	3612	952	26.4	96	69.1	37.6	06/07/62-08/09/95	108.9
Phosphate/Phosphorus	7381	5554	75.2	112	80.6	65.9	04/12/67-10/01/96	250.4
Chlorophyll	597	404	67.7	51	36.7	11.7	09/15/74-09/17/96	27.1
Sulfates/Total Dissolved Solids/Hardness	880	220	25.0	52	37.4	16.9	06/08/62-10/01/96	25.6
Bacteria	1750	0	0.0	38	27.3	46.1	11/06/67-05/12/81	129.5
Toxic Elements	1349	172	12.8	31	22.3	43.5	08/13/70-09/28/93	58.3

**Water Quality Observations
Outside STORET Edit Criteria for SLBE
(Disposition: X = Discarded, Blank = Retained)**

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
SLBE0064	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	900529		123.8000000	11NPSWRD	SLBE_S02	
SLBE0073	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	900613		138.5000000	11NPSWRD	SLBE_S05	
SLBE0078	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	900613		149.4000000	11NPSWRD	SLBE_S03	
SLBE0078	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	900626		112.7000000	11NPSWRD	SLBE_S03	
SLBE0131	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	900629		150.0000000	11NPSWRD	SLBE_S09	
SLBE0131	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	900713		114.5000000	11NPSWRD	SLBE_S09	
SLBE0137	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	820602	1600	110.0000000	112WRD	450032086071801	

APPENDICES

Appendix A
Computer Files Transmitted With
Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E *COMPRESS.ZIP FILENAME.EXT*

where *COMPRESS.ZIP* is the name of one of the seven compressed (ZIP) files listed below and *FILENAME.EXT* is the name of the file you wish to extract. If you want to decompress all of the files in *COMPRESS.ZIP*, simply omit the *FILENAME.EXT*. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V *COMPRESS.ZIP* |MORE

where *COMPRESS.ZIP* is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for *FILENAME.EXT* in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menu-driven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) SLBETABS.ZIP

This compressed file contains all the tables presented in the report. The files compressed into this file include:

- (a) SLBESITE.DOC - Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.
- (b) SLBEAGNC.DOC - Contacts for agencies whose data were retrieved within the study area.
- (c) SLBEAGNQ.DOC - Number of stations, observations, and parameters retrieved by agency code within the study area and park.

- (d) SLBEOV0.DOC - Overview of park and retrieved data.
- (e) SLBEOV1.DOC - Station period of record table.
- (f) SLBEOV2.DOC - Parameter period of record table.
- (g) SLBEOV3.DOC - Station/parameter period of record table.
- (h) SLBEINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.
- (i) SLBESEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.
- (j) SLBEEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.
- (k) SLBEIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.
- (l) SLBEBAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document SLBEOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\SLBEOV1.DOC. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). Alternatively, you can use the PRINTZIP program to decompress and print any of these files provided the ZIP file doesn't span multiple disks. These ASCII files can also be imported into word-processed documents, but the printer codes will then have to be removed.

(2) SLBEFIGS.ZIP

This compressed file contains graphics files for all the statistical figures (time series plots; annual box and whiskers plots; seasonal box and whiskers plots) in the report in two different formats: Computer Graphic Metafile (CGM) and Hewlett-Packard Printer Control Language (PCL). The files are named with the last three digits of the Station Name followed by the five digit STORET code. The file name extension begins with either a 1 (time series), 2 (annual), or 3 (seasonal) and then either GM for CGM or CL for PCL. For example, 00100300.2GM would denote the file contains an annual box and whiskers plot in CGM format for parameter 00300 (dissolved oxygen) at station SLBE0001. While at the DOS prompt, any PCL file can be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the COPY command. For example, if the graphic 00100300.2CL (an annual box and whiskers plot of parameter 00300, dissolved oxygen, at station SLBE0001) is in the subdirectory C:\WATER, you would type: COPY C:\WATER\00100300.2CL LPT1: /B. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). The /B is necessary because the PCL file is in a binary format. Alternatively, you can use the PRINTZIP program to decompress and print any of the PCL files provided the ZIP file doesn't span multiple disks. The CGM files can be imported and/or edited in most graphics packages, including WordPerfect.

(3) SLBEPARM.ZIP

This file compresses SLBEPARM.DBF which contains all the actual values (raw data) of all the water quality data downloaded from STORET and summarized in the report. The detailed database structure for this file is contained in Appendix B.

(4) SLBESITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

- (a) SLBEWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.
- (b) SLBEIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.
- (c) SLBEDRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.
- (d) SLBEGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.
- (e) SLBEDAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) SLBEMISC.ZIP

This compressed file contains a variety of graphic and document files that are contained in the report. They are grouped into this miscellaneous compressed (ZIP) file because they don't fit neatly into any of the other compressed files. The files contained in this compressed file include:

- (a) SLBEEEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.
- (b) SLBETOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.
- (c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.
- (d) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.
- (e) SLBEREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.
- (f) SLBEWQ - PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (SLBEWQA, SLBEWQB, SLBEWQC, etc.) and the index map name will end with an ampersand (&).

- (g) SLBEIDG - PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (SLBEIDGA, SLBEIDGB, SLBEIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.
- (h) SLBESEHY - PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with SLBEFIGS.ZIP and SLBETABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in SLBEMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) SLBERF3.ZIP

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

- (a) 12345678.RF3 - ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.
- (b) 12345678.DBF - DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.
- (c) 12345678.TRC - ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.
- (d) 12345678.CUB - ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) SLBEWQMW.ZIP

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

Parameter Data File: SLBEPARM.DBF in SLBEPARM.ZIP				
Field Name	Start	Stop	Length	Field Description
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
BEGDATE	9	14	6	Measurement Start Date [yymmdd]
BEGTIME	15	18	4	Measurement Start Time [hhmm]
PARMCODE	19	23	5	STORET Parameter Code
PARMVALU	24	39	16.7	Parameter Value
REMARK	40	40	1	Parameter Remark Value
				A=Value is Mean of 2 or More Determinations
				B=Results Based Upon Colony Counts Outside Acceptable Range
				C=Value Calculated
				D=Field Measurement
				E=Extra Sample Taken in Compositing Process
				F=Female Species
				G=Maximum of 2 or More Determinations
				H=Based on Field Kit Determination
				I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit
				J=Estimated, Not the Result of Analytic Measurement
				K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown
				L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown

Parameter Data File: SLBEPARM.DBF in SLBEPARM.ZIP				
Field Name	Start	Stop	Length	Field Description
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value
				N=Presumptive Evidence of Presence
				O=Analysis Lost
				P=Too Numerous to Count
				Q=Exceeded Normal Holding Time
				R=Significant Rain in Last 48 Hours
				S=Laboratory test
				T=Less Than Detection Criteria
				U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined
				V=Analyte was Detected in Sample and Method Blank
				W=Less Than Lowest Value Reportable Under Remark "T"
				X=Quasi Vertically-Integrated Sample
				Y=Analysis of Unpreserved Sample
				Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value
				\$=Calculated By Retrieval Software
MEDIA	41	46	6	Sample Media
DEPTH	47	55	9.3	Depth of Sample [in feet]
ENDDATE	56	61	6	Measurement End Date [yymmdd] [all composite samples]
ENDTIME	62	65	4	Measurement End Time [hhmm] [all composite samples]
SAMPTYPE	66	69	4	Type of Sample ["sophisticated" composite samples]
				C=Continuous Collection
				G=Collection of Individual Grab Samples
				GNxx=xx is the Number of Individual Grab Samples
				B=N/A

Parameter Data File: SLBEPARM.DBF in SLBEPARM.ZIP				
Field Name	Start	Stop	Length	Field Description
COMPTYPE	70	70	1	Composite Value Type ["sophisticated" composite samples]
				A=Average
				H=Maximum
				L=Minimum
				N=Number of Observations
				#=Number of Observations
				S=Standard Deviation
				U=Sum of Squares
				V=Variance
				C=Coefficient of Error
				X=Coefficient of Variance
				E=Skewness
				F=Kurtosis
				Z=Number of Observations That Exceed an Established Limit
				%=Precision
				\$=Accuracy
				B=N/A
				D=Indicates Replicate Sample
COMPST	71	71	1	Composite Space/Time Indicator
				S=Space
				T=Time
				B=Space and Time
				F=Flow Proportional
				1-9=Replicate Number

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Quality Station Data File: SLBEWQ.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
AGENCY	9	16	8	Agency Code of Station Owner
STORIDP	17	31	15	STORET Primary Station Code
STORIDS1	32	43	12	STORET First Secondary Station Code
STORIDS2	44	55	12	STORET Second Secondary Station Code
STORIDS3	56	65	10	STORET Third Secondary Station Code
LATITUDE	66	73	8	Station Latitude [degrees:minutes:seconds]
LONGITUDE	74	82	9	Station Longitude [degrees:minutes:seconds]
LAT	83	93	11.6	Station Latitude [decimal degrees, (-) below equator]
LON	94	104	11.6	Station Longitude [decimal degrees, (-) western hemisphere]
LLPREC	105	105	1	Latitude/Longitude Precision Code
RMI	106	329	224	River Mile Index
STATLOC	330	377	48	Station Location Description
CNTYCODE	378	382	5	FIPS State/County Code
STNAME	383	398	16	State Name
CNTYNAME	399	418	20	County Name
HYDUNIT	419	426	8	Hydrologic Unit Code (MAJ/MIN/SUB = Catalog Unit)
MAJBASN	427	450	24	Major Basin Name
MINBASN	451	490	40	Minor Basin Name
STATTYPE	491	550	60	Station Type
STORDATE	551	556	6	Date Station was Stored in STORET
RF1INDEX	557	567	11	RF1 Reach Number Location [2]
RF1MILE	568	575	8.3	Mile Point on RF1 Reach [2]
RF1LOC	576	578	3	Indicates the Location as ON or OFF RF1 Reach [2]
RF1DIST	579	584	6.2	Distance From RF1 Reach

Water Quality Station Data File: SLBEWQ.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
RF3INDEX	585	601	17	RF3 Reach Number Location [3]
RF3MILE	602	607	6.2	Mile point on RF3 Reach [3]
RF3LOC	608	610	3	Indicates the Location as ON or OFF RF3 Reach [2]
RF3DIST	611	616	6.2	Distance From RF3 Reach
DEPH2O	617	620	4	Depth of Water at Station Location [in feet]
ELEV	621	625	5	Station Elevation
ECOREG	626	628	3	ECO Region
H2OBODY	629	678	50	Waterbody ID
AQUIFERS	679	718	40	Aquifer Description
STATDESC1	719	790	72	Station Sentence Description
STATDESC2	791	862	72	Station Sentence Description
STATDESC3	863	934	72	Station Sentence Description
STATDESC4	935	1006	72	Station Sentence Description
STATDESC5	1007	1078	72	Station Sentence Description
STATDESC6	1079	1150	72	Station Sentence Description
STATDESC7	1151	1222	72	Station Sentence Description
STATDESC8	1223	1294	72	Station Sentence Description
STATDESC9	1295	1366	72	Station Sentence Description
STATDESC10	1367	1438	72	Station Sentence Description
STATDESC11	1439	1510	72	Station Sentence Description
STATDESC12	1511	1582	72	Station Sentence Description
STATDESC13	1583	1654	72	Station Sentence Description
STATDESC14	1655	1726	72	Station Sentence Description
STATDESC15	1727	1798	72	Station Sentence Description
STATLOCKED	1799	1799	1	Station Locked (Logical) True/False

The following table provides the DBASE III+ database field structures for the EPA Industrial Facilities Discharge database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Industrial Facilities Discharges File: SLBEIFD.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
SITEID	1	9	9	Site Identifier (NPDES Number)
LATITUDE	10	17	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	18	26	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	27	37	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	38	48	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	49	59	11	RF1 Reach Number Location
RF1MILE	60	65	6.2	Mile Point on RF1 Reach
RF1DIST	66	71	6.2	Distance From RF1 Reach
RF3INDEX	72	88	17	RF3 Reach Number Location
RF3MILE	89	94	6.2	Mile Point on RF3 Reach
RF3DIST	95	100	6.2	Distance From RF3 Reach
ADR	101	125	25	Address
BFL	126	132	7.2	Total Direct Combined C&P Flow (1000 GPD)
CCFLG	133	133	1	Coastal County Flag "Y"/"N"/"E"=Estuary
CC1	134	138	5	City Code #1 (EPA Code)
CFL	139	145	7.2	Total Direct Cooling Flow (1000 GPD)
CNC	146	148	3	County Code (FIPS)
CTY	149	168	20	City Name
CZIP	169	177	9	Canadian Zip Code
DNB	178	186	9	Dunn & Bradstreet Number
DNBFLG	187	187	1	Dunn & Bradstreet PCS Source Flag
EGF	188	202	15.4	Flow From Effluent Guidelines (1000 GPD)
EGS	203	208	6	Effluent Guidelines Subcategory
EXPDT	209	216	8	Expiration Date (mm/dd/yy)
E308SN	217	220	4	Effluent Guidelines Survey Number
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)
FDS	230	232	3	Facility Data Source

Industrial Facilities Discharges File: SLBEIFD.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
FFL	233	239	7.2	Total Facility Flow (1000 GPD)
FHF	240	240	1	Fac. Hit Flag (Reach File) V=Versar Assumed
FLOTYP	241	243	3	I=Blow Down, R=Bottom Ash, S=Fly Ash
FLR	244	250	7.2	Flow Recvd-Industrial (1000 GPD) Permit Data
FRDS	251	259	9	FRDS ID# - XREF To Water Supply
FRW	260	289	30	Facility Receiving Water Name
FS1	290	293	4	Facility SIC Code (From PCS)
FS2	294	297	4	Facility SIC Code #1
FS3	298	301	4	Facility SIC Code #2
FS4	302	305	4	Facility SIC Code #3
FS5	306	309	4	Facility SIC Code #4
FUD	310	317	8	Facility Level Last Date Updated (mm/dd/yy)
IACC	318	318	1	Inactive/Active Indicator ("I" or "A")
ICAT	319	320	2	WQAB Industrial Category
ICAT2	321	322	2	WQAB Industrial Category 2
ICAT3	323	324	2	WQAB Industrial Category 3
IFL	325	331	7	Total Indirect Flow (1000 GPD)
IFT	332	332	1	Illinois Facility Type (A thru Z)
IG1	333	334	2	Facility Industrial Group #1
IG2	335	336	2	Facility Industrial Group #2
IJCN	337	346	10	Canadian Record Identifier
INACT	347	353	7	Inactive/Rescinded P=Based on Permit;A=Actual
INDCNT	354	357	4	Computed Number of Indirect Dischargers
LATLON	358	372	15	Polygon Retrieval Lat/Long.
MAJ	373	373	1	Major-Minor Flag (From PCS)
MAPID	374	377	4	Map Identifier
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)
NAM	382	441	60	Facility Name
NDC	442	444	3	Number of Discharges (Pipes)

Industrial Facilities Discharges File: SLBEIFD.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
NDSFLO	445	451	7.2	NEEDS Flow (1000 GPD)
NDSIFLO	452	458	7.2	NEEDS Industrial Flow (1000 GPD)
NID	459	462	4	Number of Indirect Dischargers
NPC	463	463	1	NEEDS Pre-Treatment Code "Y"=Yes, "N"=No
NPS	464	464	1	NPDES Facility Source/Status
NSN	465	473	9	NEEDS Survey Number
NTC	474	474	1	NEEDS Treatment Code
OCP	475	480	6	Organic Chemical Producers ID Number
ODESCC	481	481	1	ODES Coastal County "Y"=Yes; "N"=No
OFL	482	488	7.2	Total Non-Direct Other Flow (1000 GPD)
OWN	489	491	3	Ownership Code
PFL	492	498	7.2	Total Direct Process Flow (1000 GPD)
REG	499	500	2	EPA Region
REGKEY	501	504	4	Region Key
RSLOFLO	505	511	7.2	Receiving Stream Low Flow
RSMNFLO	512	518	7.2	Receiving Stream Mean Flow
STA	519	520	2	State Postal Abbreviation
STAID	521	535	15	State Identifier
STC	536	537	2	State Code (FIPS)
STCITY	538	544	7	State/City Code
TFLOW	545	551	7.2	Type Flow (1000 GPD)
UFL	552	558	7.2	Total Direct Undefined Flow (1000 GPD)
XEGS	559	561	3	Effluent Guidelines Subcat Index
XKEY	562	562	1	"1","2","3","4","5","6","7","8","9"
XNME	563	565	3	GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86
ZIP	566	570	5	Zip Code

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

<u>Drinking Water Intakes File: SLBEDRIN.DBF in SLBESITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	29	37	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
AQCD	112	115	4	Aquifer Code
ASC	116	138	23	STORET Agency/Station Code
AVGD	139	142	4	Average Depth
BUY	143	143	1	Purchase Code
CC1	144	148	5	City Code #1 (EPA Code)
CNC	149	151	3	County Code (FIPS)
CNME	152	166	15	Contact Name
CNN	167	186	20	County Name
CTITLE	187	201	15	Contact Title
CTY	202	221	20	City Name
DUD	222	229	8	Date of Update
FRDS	230	238	9	FRDS ID# - Cross-Reference
GEOAG	239	258	20	Geologic Age
GEOCDE	259	261	3	Geologic Age Code
IDAT	262	269	8	Date (mm/dd/yy)

<u>Drinking Water Intakes File: SLBEDRIN.DBF in SLBESITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
INTAKET	270	270	1	Type Source G/S/B
INTRVWR	271	285	15	Interviewer
MAXD	286	289	4	Maximum Depth
MILES	290	296	7.2	Miles
MIND	297	300	4	Minimum Depth
NAME	301	320	20	Name
NPD	321	329	9	NPDES# XREF to IFD Database
NWLS	330	332	3	Number of Wells
OWN	333	335	3	Ownership
PAVGF	336	342	7.2	Production Avg. Daily (Gal/Day)
PCTSUP	343	345	3	%Surface / %Ground
PHONE	346	355	10	Telephone Number
PMAXF	356	362	7.2	Production Max. Daily (Gal/Day)
POPSV	363	371	9	Population Served
REG	372	373	2	EPA Region
SHLAT	374	379	6	Sitehelp Latitude (DDMMSS)
SHLNG	380	386	7	Sitehelp Longitude (DDDMMSS)
SHMILES	387	393	7.2	Sitehelp Miles
SHNME	394	403	10	Sitehelp Source Name
SHPCT	404	410	7.2	Sitehelp Percent of Reach Miles
SRC	411	413	3	Sitehelp Source Code
STA	414	415	2	State Abbreviation
STC	416	417	2	State Code (FIPS)
TUF	418	424	7.2	Total Utility Flow
TYPCDE	425	425	1	Type Code
UHF	426	426	1	Utility Hit Flag (Reach File)
VCDE	427	427	1	Versar Code='V'=>25K; '*'=<25K POPSVD
WFPC	428	428	1	Wellfield Precision Code
WFTYP	429	429	1	Well Type (Cassing,Artesian,Infiltration,etc.)

<u>Drinking Water Intakes File: SLBEDRIN.DBF in SLBESITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
WUN	430	449	20	Water Utility Name

The following table provides the DBASE III+ database field structures for the Water Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

<u>Water Gage File: SLBEGAGE.DBF in SLBESITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (DDMMSS)
LONGITUDE	29	37	9	Facility Longitude (DDDMMSS)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
JAN	112	118	7.2	Monthly Flow - January
FEB	119	125	7.2	Monthly Flow - February
MAR	126	132	7.2	Monthly Flow - March
APR	133	139	7.2	Monthly Flow - April
MAY	140	146	7.2	Monthly Flow - May
JUN	147	153	7.2	Monthly Flow - June
JUL	154	160	7.2	Monthly Flow - July
AUG	161	167	7.2	Monthly Flow - August
SEP	168	174	7.2	Monthly Flow - September
OCT	175	181	7.2	Monthly Flow - October
NOV	182	188	7.2	Monthly Flow - November
DEC	189	195	7.2	Monthly Flow - December
RGN	196	197	2	Region Code
AREA	198	204	7.2	Drainage Area (SQ.MI.)
DUD	205	212	8	Date of Update

<u>Water Gage File: SLBEGAGE.DBF in SLBESITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')
FDFE	214	214	1	Flag - Daily Flows File ('Y')
FQMINV	215	224	10	IHS Pt. Files Index
GHF	225	225	1	Hit Flag (Reach File)
ICDE	226	226	1	Integrity Code
LFVEL	227	233	7.2	Low Flow Velocity
METHOD	234	236	3	Calculation Method Code
MFVEL	237	243	7.2	Mean Flow Velocity
MNFLO	244	250	7.2	USGS Mean Annual Flow
NME	251	298	48	Station Name
SHLAT	299	304	6	Sitehelp Latitude (DDMMSS)
SHLNG	305	311	7	Sitehelp Longitude (DDDMMSS)
SHMILES	312	318	7.2	Sitehelp Miles
SHNME	319	328	10	Sitehelp Source Name
SHPCT	329	335	7.2	Sitehelp Percent of Reach Miles
SITE	336	337	2	Site Location
SRC	338	340	3	Sitehelp Source Code
STCTY	341	345	5	State/County Numeric Code
SVTEN	346	352	7.2	USGS 7-10 Year Flow
BEG_WYR	353	356	4	Beginning Water Year
END_WYR	357	359	4	Ending Water Year
ELEV	361	368	8.2	Elevation (Feet)
WELL_DP	369	376	8.2	Well Depth (Feet)

The following table provides the DBASE III+ database field structures for the Water Impoundment database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Impoundment File: SLBEDAMS.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
SITEID	1	7	7	Site Identifier
SOURCE	8	10	3	Source of Data
ST1	11	12	2	Primary State Code Abbreviation
STCTY1	13	17	5	State/County Numeric Code
NAME	18	47	30	Official Name of Dam
LATITUDE	48	53	6	Facility Latitude (DDMMSS)
LONGITUDE	54	60	7	Facility Longitude (DDDMMSS)
LAT	61	70	10.6	Facility Latitude (decimal degrees, (-) below equator)
LON	71	81	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
INME	82	111	30	Impoundment Name
RNME	112	139	28	River, Stream, or Tributary Name on Which Dam Built
CUSEGMI	140	149	10	Catalog Unit, Segment, and Segment Length
REGN	150	151	2	Water Resources Council Region Code
RGBSN	152	155	4	Water Resources Region/Basin Code
CU	156	163	8	Catalog Unit
SEG	164	166	3	Reach Segment of Dam
SEGL	167	171	5.2	Reach Segment Length
PURP	172	172	1	Major Purpose of Dam
				I=Irrigation
				H=Hydroelectric
				N=Navigation
				S=Water Supply
				R=Recreation
				P=Stock/Farm Pond
				D=Debris Control
				F=Flood Control

Water Impoundment File: SLBEDAMS.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
				O=Other
FRF3	173	189	17	RF3 Reach Number Location
FRF3MI	190	194	5	Mile Point on RF3 Reach
PURPKEY	195	195	1	Purpose Key
PUR2	196	196	1	Purpose of Dam 2 (See Above)
PUR3	197	197	1	Purpose of Dam 3 (See Above)
PUR4	198	198	1	Purpose of Dam 4 (See Above)
PUR5	199	199	1	Purpose of Dam 5 (See Above)
PUR6	200	200	1	Purpose of Dam 6 (See Above)
PUR7	201	201	1	Purpose of Dam 7 (See Above)
PUR8	202	202	1	Purpose of Dam 8 (See Above)
PUR9	203	203	1	Purpose of Dam 9 (See Above)
PUR10	204	204	1	Purpose of Dam 10 (See Above)
TYPDAM	205	206	2	Major Dam Portion Type
				RE=Earth
				VA=Vaulted Arch
				CD=Buttress
				PG=Gravity
				ER=Rockfill
				MV=Multi-Arch
				OT=Other
YRCMP	207	210	4	Year Dam Completed
SHGT	211	214	4	Structural Height (Feet)
HHGT	215	218	4	Hydraulic Height (Feet)
VNORM	219	236	8	Normal Storage of Impoundment (Acre-Feet)
VMAX	227	234	8	Maximum Storage of Impoundment (Acre-Feet)
LCRST	235	239	5	Crest Length of Dam (Feet)
TSPL	240	240	1	Spillway Type
				C=Controlled

Water Impoundment File: SLBEDAMS.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
				U=Uncontrolled
				N=None
				X=Unknown
WSPL	241	244	4	Dam Spillway Width (Feet)
QMAX	245	251	7	Maximum Spillway Discharge (CFS)
PINS	252	258	7.2	Quantity of Installed Power (Megawatts)
PPRO	259	265	7.2	Quantity of Proposed Power (Megawatts)
LOCK	266	266	1	Number of Navigational Locks
OWNR	267	290	24	Name of Impoundment Owner
PFOWN	291	291	1	Ownership Code
				N=Non-Federal
				G=Federal Government Agency
				C=Corps of Engineers
				X=Unknown
FEDR	292	292	1	Federally Regulated (Y=Yes, N=No, X=Unknown)
FLND	293	293	1	Private Dam on Federal Land (Y=Yes, N=No, X=Unknown)
SCSA	294	294	1	Type of Soil Conservation Service Assistance
				N=No Assistance
				T=Technical Assistance
				F=Financial Assistance
				B=Both Technical and Financial Assistance
				X=Unknown
DHAZ	295	295	1	Degree of Downstream Hazard
				1=High (More than a Few Lives Lost; Excessive Economic Loss)
				2=Significant (A Few Lives Lost; Appreciable Economic Loss)
				3=Low (No Lives Expected Lost; Minimal Economic Loss)
DCITY	296	319	24	Nearest Downstream City

Water Impoundment File: SLBEDAMS.DBF in SLBESITE.ZIP				
Field Name	Start	Stop	Length	Field Description
POP	320	326	7	Population of Downstream City
DMILE	327	331	5.2	Distance of Downstream City From Dam (Miles)
RET	332	342	11.2	Retention Coefficient (Dimensionless)
MIX	343	353	11.2	Mixing Coefficient (Dimensionless)
SAREA	354	361	8	Surface Area of Impoundment (Acres)
SAFLG	362	362	1	Surface Area Flag (C=Calc., M=Measured, O=Other)
ILNTH	363	367	5	Length of Impoundment (Feet)
ILFLG	368	368	1	Impoundment Length Flag (C=Calc., M=Measured, O=Other)
UPKEY	369	374	6	Update Key (YYMMDD)

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

<u>RF3 Structure File: 12345678.RF3 and 12345678.DBF in SLBERF3.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
CATUNIT	1	8	8	Cataloging Unit (CU)
SEGM	9	12	4	Segment Number (SEG)
MI	13	17	5.2	Mile Point (MI)
UPMI	18	22	5.2	Upstream Mile Pt.
SEQNO	23	33	11.6	Hydro Sequence No.
RFLAG	34	34	1	Reach Flag (0,1)
OWFLAG	35	35	1	Open Water Flag (0,1)
TFLAG	36	36	1	Terminal Flag (0,1)
SFLAG	37	37	1	Start Flag (0,1)
RCHTYPE	38	38	1	Reach Type Code
LEV	39	40	2	Stream Level
JUNC	41	42	2	Level of Downstream Reach
DIVERGENCE	43	43	1	Divergence Code
STARTCU	44	51	8	Start CU
STRTSG	52	55	4	Start SEG
STOPCU	56	63	8	Stop CU
STOPSG	64	67	4	Stop SEG
USDIR	68	68	1	Upstream Direction
TERMID	69	73	5	Terminal Stream ID
TRMBLV	74	74	1	Terminal Base Level
PNAME	75	104	30	Primary Name
PNMCD	105	115	11	Primary Name Code
CNAME	116	145	30	Complement Name
CNMCD	146	156	11	Complement Name Code

RF3 Structure File: 12345678.RF3 and 12345678.DBF in SLBERF3.ZIP				
Field Name	Start	Stop	Length	Field Description
OWNAME	157	186	30	Open Water Name
OWNMCD	187	197	11	Open Water Name Code
DSCU	198	205	8	Downstream CU
DSSEG	206	209	4	Downstream SEG
DSMI	210	214	5.2	Downstream MI
CCU	215	222	8	Complement CU
CSEG	223	226	4	Complement SEG
CMILE	227	231	5.2	Complement MI
CDIR	232	232	1	Complement Direction
ULCU	233	240	8	Upstream Left CU
ULSEG	241	244	4	Upstream Left SEG
ULMI	245	249	5.2	Upstream Left MI
URCU	250	257	8	Upstream Right CU
URSEG	258	261	4	Upstream Right SEG
URMI	262	266	5.2	Upstream Right MI
SEGL	267	272	6.2	Reach Length (Miles)
RFORGFLAG	273	273	1	RF Orgin flag(1,2,3)
ALTPNMCD	274	281	8	Alt. Primary Name Code
ALTOWNMC	282	289	8	Alt. OW Name Code
DLAT	290	297	8.4	Downstream Latitude
DLONG	298	305	8.4	Downstream Longitude
ULAT	306	313	8.4	Upstream Latitude
ULONG	314	321	8.4	Upstream Longitude
MINLAT	322	329	8.4	Minimum Latitude
MINLONG	330	337	8.4	Minimum Longitude
MAXLAT	338	345	8.4	Maximum Latitude
MAXLONG	346	353	8.4	Maximum Longitude
NDLGREC	354	357	4	No. of DLG Records
LLIKEY1	358	367	10	Starting DLG LL Key1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in SLBERF3.ZIP				
Field Name	Start	Stop	Length	Field Description
LL2KEY1	368	377	10	Ending DLG LL Key1
LL1KEY2	378	387	10	Starting DLG LL Key2
LL2KEY2	388	497	10	Ending DLG LL Key2
LL1KEY3	398	407	10	Starting DLG LL Key3
LL2KEY3	408	417	10	Ending DLG LL Key3
LL1KEY4	418	427	10	Starting DLG LL Key4
LL2KEY4	428	437	10	Ending DLG LL Key4
LL1KEY5	438	447	10	Starting DLG LL Key5
LL2KEY5	448	457	10	Ending DLG LL Key5
LL1KEY6	458	467	10	Starting DLG LL Key6
LL2KEY6	468	477	10	Ending DLG LL Key6
LL1KEY7	478	487	10	Starting DLG LL Key7
LL2KEY7	488	597	10	Ending DLG LL Key7
LL1KEY8	498	507	10	Starting DLG LL Key8
LL2KEY8	508	517	10	Ending DLG LL Key8
LL1KEY9	518	527	10	Starting DLG LL Key9
LL2KEY9	528	537	10	Ending DLG LL Key9
LL1KEY10	538	547	10	Start DLG LL Key 10
LL2KEY10	548	557	10	Ending DLG LL Key10
LN1AT2	558	561	4	DLG Line Attr. 1
LN2AT2	562	565	4	DLG Line Attr. 2
AREA1	566	569	4	DLG Area ID 1
AREA2	570	573	4	DLG Area ID 2
AR1AT2	574	577	4	DLG Area Attribute
AR1AT4	578	581	4	DLG Area Attribute
AR2AT2	582	585	4	DLG Area Attribute
AR2AT4	586	589	4	DLG Area Attribute
UPDATE1	590	595	6	Update Date #1 (mmddyy)
UPDTC1	596	603	8	Update Type Code #1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in SLBERF3.ZIP				
Field Name	Start	Stop	Length	Field Description
UPDTSRC1	604	611	8	Update Source #1
UPDATE2	612	617	6	Update Date #2 (mmddyy)
UPDTCDC2	618	625	8	Update Type Code#2
UPDTSRC2	626	633	8	Update Source #2
UPDATE3	634	639	6	Update Date #3 (mmddyy)
UPDTCDC3	640	647	8	Update Type Code #3
UPDTSRC3	648	655	8	Update Source #3
DIVCU	656	663	8	Divergent CU
DIVSEG	664	667	4	Divergent SEG
DIVMILE	668	672	5.2	Divergent MI
DLGID	673	678	6	DLG Number Special Use For Internal State Codes
FILLER	678	685	7	Filler: Future Use

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

<u>RF3 Trace File: 12345678.TRC in SLBERF3.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
(Header Record)				
CATUNIT	1	8	8	Cataloging Unit
SEGM	9	12	4	Segment Number
MI	13	17	5.2	Mile Point
NPTS	18	21	4	Number of Lat/Lon Coordinates
(Coordinate Record)				
LATITUDE	1	8	8.4	Latitude in Decimal
LONGITUDE	9	16	8.4	Longitude in Decimal
FILLER	17	21	5	

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) catalog unit boundary file. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual catalog unit boundary and is suitable for conversion into a variety of Geographic Information System formats.

<u>Catalog Unit Boundary File: 12345678.CUB in SLBERF3.ZIP</u>
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

<u>Encyclopedia File: WRD File For Internal Use Only</u>				
Field Name	Start	Stop	Length	Field Description
PARM	1	5	5	STORET Parameter Code
PARMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CaCO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CaCO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CaCO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CaCO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS Ca)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CaCO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT, MEMBR FILTER, DELAYED, M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT, MEMBR FILTER, IMMED, LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI, PLATE COUNT M-ENTER AGAR, 35C, 48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR, 35C, 48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE), WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C, DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE, RECREATIONAL SUITABILITY @ SMPL TIME, 1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT ERROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVL P
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY: 1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary¹

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50 ^l	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50 ^l	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250 ^s			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0 ^u	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0 ^u	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0 [#]	PH	SU	Physical
	00403				≤6.5, ≥9.0 [#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0 [#]	PH, FIELD	SU	Physical

¹Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200"	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250 ⁸			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250 ⁸			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250 ⁸			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250 ⁸			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM, TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM, TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130 ⁺	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9 ⁺	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9 ⁺	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9 ⁺	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700 ⁺	100	10300 ⁺		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18 ⁺	1300 ^a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18 ⁺	1300 ^a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18 ⁺	1300 ^a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82 ⁺	15 ^a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82 ⁺	15 ^a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82 ⁺	15 ^a	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400 ⁺	2.0	2130 ⁺		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400 ⁺	2.0	2130 ⁺		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400 ⁺	2.0	2130 ⁺		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400 ⁺	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400 ⁺	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400 ⁺	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400 ⁺	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1 ⁺	100 ^s	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1 ⁺	100 ^s	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1 ⁺	100 ^s	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1 ⁺	100 ^s	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018 ⁺	1.3 ^a	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120 ⁺	5000 ^s	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120 ⁺	5000 ^s	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120 ⁺	5000 ^s	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120 ⁺	5000 ^s	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88 ^p	6.0	1500 ^p		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88 ^p	6.0	1500 ^p		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88 ^p	6.0	1500 ^p		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9 ⁺	5.0	43		CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82 ⁺	15 ^a	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18 ⁺	1300 ^a	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400 [*]	2.0	2130 [*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400 [*]	2.0	2130 [*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88 ^p	6.0	1500 ^p		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120 ⁺	5.0 ^s	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041 ⁺	0.1 ^s	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018 ⁺	1.3 ^a	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13 [*]	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039 ⁺	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7 ⁺	0.1	10.3 [*]		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082 ⁺	0.015 ^a	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4 ⁺	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4 ⁺	0.002	2.13 ⁺		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020 ^c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1 ⁺	100 ^s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20 ^r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000 ^r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000 ^r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000 ^r			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0 ^r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0 ^r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0 ^r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850*	50	2319*		ARSENIC, PENTAVALENT, DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20°			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20°			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20°			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020°			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20°			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200 [^]	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200 [^]	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200 [^]	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200 [^]	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200 [^]	FECAL COLIFORM, MPN, EUKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200 [^]	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126 [^]	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33 [^]	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100 ⁱ			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100 ⁱ			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100 ⁱ			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100 ⁱ			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100 ⁱ			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100 ⁱ			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100 ⁱ			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100 ⁱ			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1 ⁱ			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970*		ACENAPHTHENE, TOTAL	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE, DISSOLVED	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE, SUSPENDED	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN, TOTAL	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN, DISSOLVED	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN, SUSPENDED	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE, TOTAL	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE, DISSOLVED	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE, SUSPENDED	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE, DISSOLVED	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE, SUSPENDED	UG/L	General Organic
92875	34239	2500*				BENZIDINE, DISSOLVED	UG/L	General Organic
92875	34240	2500*				BENZIDINE, SUSPENDED	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, DISSOLVED	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, SUSPENDED	UG/L	Pesticide
75252	34288		100 ⁱ			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100 ⁱ			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE, DISSOLVED	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100 ⁱ			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100 ⁱ			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100 ⁱ			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900*	100 ⁱ			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900*	100 ⁱ			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100 ⁱ			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100 ⁱ			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270*				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270*				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270*				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0 ^P	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0 ^P	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40 ^c			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40 ^c			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40 ^c			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30 ^P		7.7 ^P		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30 ^P		7.7 ^P		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30 ^P		7.7 ^P		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0 ^P	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0 ^P	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90 [*]		32 [*]		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9 ⁺	5.0	43		CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18 ⁺	1300 ^a	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82 ⁺	15 ^a	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1 ⁺	100 ^s	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120 ⁺	5000 ^s	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3, LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWN AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200 [^]	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250 ^s			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY, TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9 ⁺	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82 ⁺	15 ^a	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120 ⁺	5000 ^s	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18 ⁺	1300 ^a	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700 [*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100 ^p		240 ^p		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440 [*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250 ^s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20°			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18 ⁺	1300 ^a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400 ⁺	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120 ⁺	5000 ^s	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000 [*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120 ⁺	5000 ^s	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82 ⁺	15 ^a	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9 ⁺	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18 ⁺	1300 ^a	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120 ⁺	5000 ^s	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18 ⁺	1300 ^a	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120 ⁺	5000 ^s	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50 ^l	TURBIDITY, FIELD	NTU	Physical
	82079				50 ^l	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000 ^s			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

*Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

+Hardness Dependent Criteria (100 mg/L CaCO₃ Used).

***pH Dependent Criteria (7.8 pH Used).

▬Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

^Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

#EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

!Arizona state standard.

^aEPA action level, 40 CFR 141.80.

^bCalifornia and Florida state bathing water standards.

^cA Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

ⁿTotal coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

^pProposed Criterion.

^rAverage annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

^sEPA National Secondary Drinking Water Regulation, 40 CFR 143.

^tThe maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

^uColdwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory and Monitoring Program "Level I" Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	Flow Parameter Group¹	C.A.S. Number
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

¹Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	Conductivity Parameter Group	C.A.S. Number
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	Dissolved Oxygen Parameter Group	C.A.S. Number
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	pH Parameter Group	C.A.S. Number
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (μ EQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CaCO_3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CaCO_3)	471341
00435	ACIDITY, TOTAL (MG/L AS CaCO_3)	471341
00440	BICARBONATE ION (MG/L AS HCO_3)	71523
00445	CARBONATE ION (MG/L AS CO_3)	3812326
STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONIZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH_4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH_4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO_3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO_3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO_2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO_2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140
STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-
STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-
STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYL VINYL ETHER, WATER, WHL, RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.