Baseline Water Quality Data

Inventory and Analysis

Theodore Roosevelt National Park



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

THEODORE ROOSEVELT NATIONAL PARK

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-97/100

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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Theodore Roosevelt National Park (THRO) 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 one industrial/municipal discharger; no drinking water intakes; nine active or inactive U. S. Geological Survey (USGS) water gages (including stream, well, and climate); and one water impoundment. The results of the STORET retrieval for the study area yielded 19,534 observations for 399 separate parameters collected by the NPS, USGS, EPA, U.S. Army Corps of Engineers, and the North Dakota Health Department at 76 monitoring stations. Of the 76 stations, two stations within the study area (none within the park boundary) were established but contained no data. Thirty-three 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. Four stations within the study area (two 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) Little Missouri River Nr Watford City, ND (THRO 0006); and (2) Little Missouri River at Medora, ND (THRO 0046). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Little Missouri R - Medora, ND (THRO 0050); and (2) Little Missouri R Near Watford (THRO 0005)[†].

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 THRO water quality criteria screen found 18 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, arsenic, cadmium, copper, lead, mercury, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Fluoride, sulfate, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, and uranium exceeded their respective EPA drinking water criteria. Bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

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

Dissolved oxygen concentrations were measured 794 times at five monitoring stations in the Little Missouri River (THRO 0004, THRO 0005, THRO 0006, THRO 0046, THRO 0050) from 1968 through 1994. Of the 792 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), two concentrations at two stations in the Little Missouri River near Watford (THRO 0005 and THRO 0006) and one concentration in the Little Missouri River at Medora (THRO 0050) were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life.

The pH was measured 1,011 times at 52 monitoring stations from 1949 through 1996. Of the 1,006 observations used in the criteria analysis (see Remark Code and Composite Type Screens in the Methodology for explanation), five observations in the Little Missouri River (THRO 0005, THRO 0006, THRO 0050), Frank Mine Lake (THRO 0009), and Tomamichael Well (THRO 0061) were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). Three observations at three stations (THRO 0005, THRO 0006, THRO 0061) were greater than or equal to pH 9.0 and two observations at two stations (THRO 0009 and THRO 0050) were less than pH 6.5. The highest reported pH was 9.23 SU in the Little Missouri River near Watford City (THRO 0006) in March 1995. The lowest pH of 3.1 SU was reported in Frank Mine Lake (THRO 0009) in April 1984.

Turbidity was measured 182 times at 24 monitoring stations from 1971 through 1994. One-hundred-sixteen observations at ten stations exceeded the WRD screening criterion of 50 turbidity units (JTU/FTU/NTU). All but five of the observations exceeding the criterion were collected in the Little Missouri River. Two stations in the Little Missouri River near Watford City (THRO 0005 and THRO 0006) reported approximately 84 percent of the observations exceeding the criterion from 1971 through 1994, including the highest reported value of 15,000 FTU (THRO 0005) in May 1974.

Total coliform concentrations were measured 98 times at three monitoring stations in the Little Missouri River (THRO 0004, THRO 0006, THRO 0050) from 1968 through 1976. Of the 97 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 37 observations at two stations (THRO 0004 and THRO 0050) exceeded the WRD bathing water criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml). Thirty-six of the 37 observations exceeding the criterion occurred in the Little Missouri River at Medora (THRO 0050) from 1969 through 1976, including the highest reported concentration of 300,000 CFU/100 ml in June 1970. Fecal coliform concentrations were measured 220 times at four monitoring stations in the Little Missouri River (THRO 0004, THRO 0005, THRO 0006, THRO 0050) from 1971 through 1994. Of the 216 observations used in the criteria analysis (see Remark Code and Composite Type Screens in the Methodology for explanation), 54 observations at three stations (THRO 0004, THRO 0006, THRO 0050) exceeded the WRD bathing water criterion of 200 CFU/MPN/100 ml. Approximately 63 percent of the observations exceeding the criterion were reported in the Little Missouri River at Medora (THRO 0050) from 1972 through 1992, including the highest value of 46,000 MPN/100 ml in June 1977.

Fluoride concentrations (including dissolved and total) were measured 231 times at 47 monitoring stations from 1949 through 1995. Two total concentrations, 5.2 mg/L and 4.8 mg/L, in the Little Missouri River near Watford City (THRO 0006) exceeded the drinking water criterion of 4.0 mg/L in September 1977 and July 1977, respectively.

Total sulfate concentrations were measured 450 times at 51 monitoring stations from 1949 through 1995. Of the 448 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 384 observations at 43 stations exceeded the secondary drinking water criterion of 250 mg/L. The highest reported value of 5,100 mg/L occurred in a spring north of Government Creek (THRO 0035) in September 1970. Approximately 87 percent of the observations exceeding this criterion occurred in the Little Missouri River near Watford City (THRO 0005 and THRO 0006) from 1968 through 1995 and the Little Missouri River at Medora (THRO 0046 and THRO 0050) from 1949 through 1992.

Arsenic concentrations (including dissolved, suspended, and total) were measured 159 times at three monitoring stations in the Little Missouri River (THRO 0006, THRO 0046, THRO 0050) from 1974 through 1995. Nine concentrations in the Little Missouri River near Watford City (THRO 0006) and six concentrations in the Little

Missouri River at Medora (THRO 0050) exceeded the drinking water criterion of 50 micrograms per liter (µg/L) from 1975 through 1986. One of the six concentrations (667 µg/L in October 1983) in the Little Missouri River at Medora (THRO 0050) also exceeded the acute freshwater criterion of 360 µg/L.

Barium concentrations (including dissolved, suspended, and total) were measured 144 times at three monitoring stations in the Little Missouri River (THRO 0006, THRO 0046, THRO 0050) from 1974 through 1994. Three concentrations, ranging from 2,200 µg/L to 3,000 µg/L, in the Little Missouri River near Watford City (THRO 0006) exceeded the drinking water criterion of 2,000 µg/L from 1978 through 1981. The highest reported value of 3,000 µg/L occurred in September 1978.

Beryllium concentrations (including dissolved and total) were measured 58 times at three monitoring stations in the Little Missouri River (THRO 0005, THRO 0006, THRO 0046) from 1974 through 1991. Thirteen total concentrations, ranging from 7.0 µg/L to 20 µg/L, in the Little Missouri River near Watford City (THRO 0005 and THRO 0006) exceeded the drinking water criterion of 4.0 µg/L from 1976 through 1980. The highest reported value of 20 µg/L occurred near Watford City (THRO 0006) in September 1979.

Cadmium concentrations (including dissolved, suspended, and total) were measured 147 times at three monitoring stations in the Little Missouri River (THRO 0006, THRO 0046, THRO 0050) from 1974 through 1992. Of the 131 observations used in the criteria analysis (see Composite Type Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), nine observations, ranging from 5.0 µg/L to 22 µg/L, in the Little Missouri River near Watford City (THRO 0006) and the Little Missouri River at Medora (THRO 0050) exceeded the acute freshwater criterion of 3.9 µg/L and also equaled or exceeded the drinking water criterion of 5.0 µg/L from 1974 through 1989. The highest reported value of 22 µg/L occurred in the Little Missouri River at Medora (THRO 0050) in April 1989.

Chromium concentrations (including dissolved, suspended, and total) were measured 154 times at three monitoring stations in the Little Missouri River (THRO 0006, THRO 0046, THRO 0050) from 1974 through 1992. Of the 153 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), ten concentrations in the Little Missouri River near Watford City (THRO 0006) and five concentrations in the Little Missouri River at Medora (THRO 0050) exceeded the drinking water criterion of 100 µg/L from 1975 through 1990. The highest reported value of 480 µg/L occurred at the Medora station (THRO 0050) in October 1986.

Copper concentrations (including dissolved, suspended, and total) were measured 159 times at three monitoring stations in the Little Missouri River (THRO 0006, THRO 0046, THRO 0050) from 1974 through 1992. Of the 158 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 45 concentrations in the Little Missouri River near Watford City (THRO 0006) and 13 concentrations in the Little Missouri River at Medora (THRO 0050) equaled or exceeded the acute freshwater criterion of 18 µg/L from 1974 through 1991. The highest reported value of 1,000 µg/L occurred at the station near Watford City (THRO 0006) in September 1978.

Lead concentrations (including dissolved, suspended, and total) were measured 149 times at three monitoring stations in the Little Missouri River (THRO 0004, THRO 0046, THRO 0050) from 1974 through 1995. Of the 139 observations used in the criteria analysis (see Composite Type Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 30 concentrations in the Little Missouri River near Watford City (THRO 0006) and the Little Missouri River at Medora (THRO 0050) exceeded the drinking water criterion of 15 µg/L from 1975 through 1991. Sixteen of these 30 concentrations also exceeded the acute freshwater criterion of 82 µg/L. The highest reported value of 500 µg/L occurred twice in the Little Missouri River near Watford City (THRO 0006) in June 1975.

Mercury concentrations (including dissolved, suspended, and total) were measured 135 times at three monitoring stations in the Little Missouri River (THRO 0005, THRO 0006, THRO 0046) from 1974 through 1995. Three total concentrations in the Little Missouri River near Watford City (THRO 0005 and THRO 0006) equaled or exceeded the drinking water criterion of 2 µg/L from 1974 through 1978. One of these three observations, 2.4

µg/L recorded near Watford City (THRO 0006), also equaled the acute freshwater criterion of 2.4 µg/L in September 1978.

Nickel concentrations (including dissolved, suspended, and total) were measured 90 times at two monitoring stations in the Little Missouri River (THRO 0006, THRO 0046) from 1974 through 1994. Fifteen concentrations, ranging from 130 µg/L to 830 µg/L, in the Little Missouri River near Watford City (THRO 0006) exceeded the drinking water criterion of 100 µg/L from 1977 through 1982. The highest reported value of 830 µg/L occurred in September 1978.

Natural uranium concentrations (including dissolved and total) were measured once at 14 monitoring stations from 1983 through 1984. One dissolved concentration of 4000 µg/L in Frank Mine Lake (THRO 0009) exceeded the drinking water criterion of 20 µg/L in April 1984.

Zinc concentrations (including dissolved, suspended, and total) were measured 156 times at three monitoring stations in the Little Missouri River (THRO 0006, THRO 0046, THRO 0050) from 1974 through 1992. Of the 155 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 26 concentrations in the Little Missouri River near Watford City (THRO 0006) and ten concentrations in the Little Missouri River at Medora (THRO 0050) exceeded the acute freshwater criterion of 120 µg/L from 1974 through 1991. The highest reported value of 2,600 µg/L occurred near Watford City (THRO 0006) in September 1978.

The IDEA conducted for THRO indicates that STORET data exist for 12 of the 13 Level I parameter groups in the study area. No STORET data exist for the parameter group Chlorophyll. For the groups Flow, Sulfates/Total Dissolved Solids/Hardness, and Bacteria, less than 25 percent of the observations were recorded since 1985. Relative to other parameter groups, data were limited for the groups Flow, Clarity/Turbidity, and Bacteria. Results for 25 of the 126 EPA priority toxic pollutants (consisting of metals, inorganic parameters, and pesticides) were retrieved from STORET.

Surface water resources in the THRO study area include the free flowing Little Missouri River, which winds through the park's south and north units; numerous tributaries and small lakes; and several springs. The data inventories and analyses contained in this report indicate that surface water quality appears to be typical of the area, with some impact from human activities. The presence of turbidity, sulfate, and several metals that exceed criteria is likely explained by runoff from soils and deposits associated with the surficial geology of the Little Missouri River basin. Potential anthropogenic sources of contaminants include wastewater effluent; mining and quarrying operations; and oil and natural gas development. Four stations in the Little Missouri River (THRO 0005, THRO 0006, THRO 0046, THRO 0050) accounted for approximately 89 percent of the total water quality observations in the study area.

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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 uses[2] and with the Servicewide Inventory and

[1]The 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.

[2]The 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.

Jacquie 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:

Code	STORET Administrative Parameter Description
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:

Media Screen	Description
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.

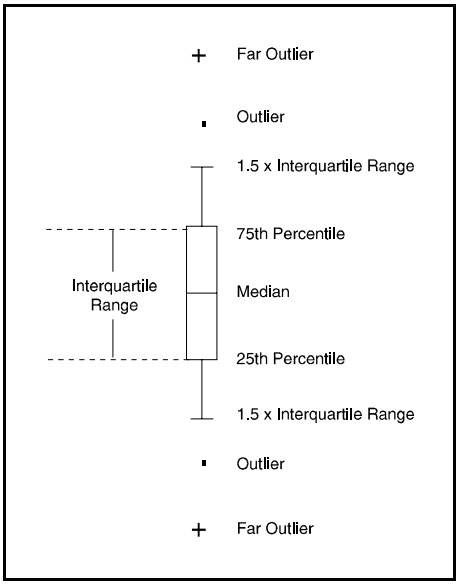
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 μeq/l H^+; and (3) μeq/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 μeq/l H^+ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as μeq/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, μeq/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, μeq/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

Required Parameter Groups:
(1) Alkalinity
(2) pH
(3) Conductivity
(4) Dissolved Oxygen
(5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates)
(6) Temperature
(7) Flow

Case-By-Case Parameters Groups:
(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 THRO

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.

	Study Area	Park
GIS Estimated Acreage:	468770	70133
# STORET Stations:	76	33
# Stations With No Data:	2	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	4	2
Date of STORET Retrieval:	09/30/96	09/30/96
Period of Record:	10/03/49-03/18/96	10/03/49-03/18/96
# Parameters Measured:	399	274
# Water Quality Observations:	19534	14306
# Industrial/Municipal Facilities:	1	1
# Drinking Water Intakes:	0	0
# Water Gages:	9	6
# Water Impoundments:	1	0
# Total Plots:	114	78
# Time Series:	52	40
# Annual:	23	6
# Seasonal:	39	32

Hydrologic Definition of Seasons:

1. August 1 - February 14
2. February 15 - March 19
3. March 20 - April 30
4. May 1 - July 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 12 years and at least 56 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 4 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.

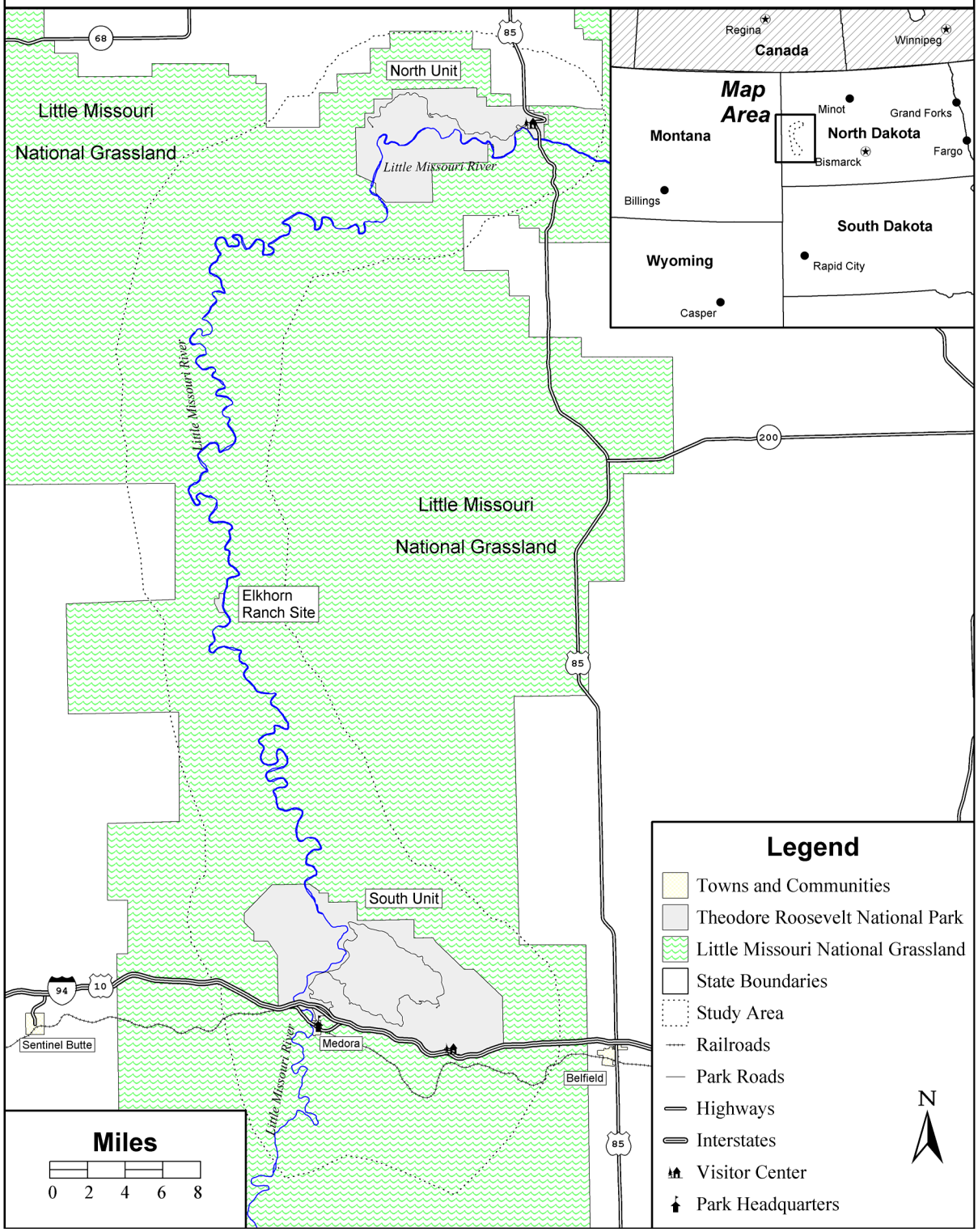
Seasonal Analysis Criteria:

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 18 years and observations in at least 4 of the 18 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.

Theodore Roosevelt National Park

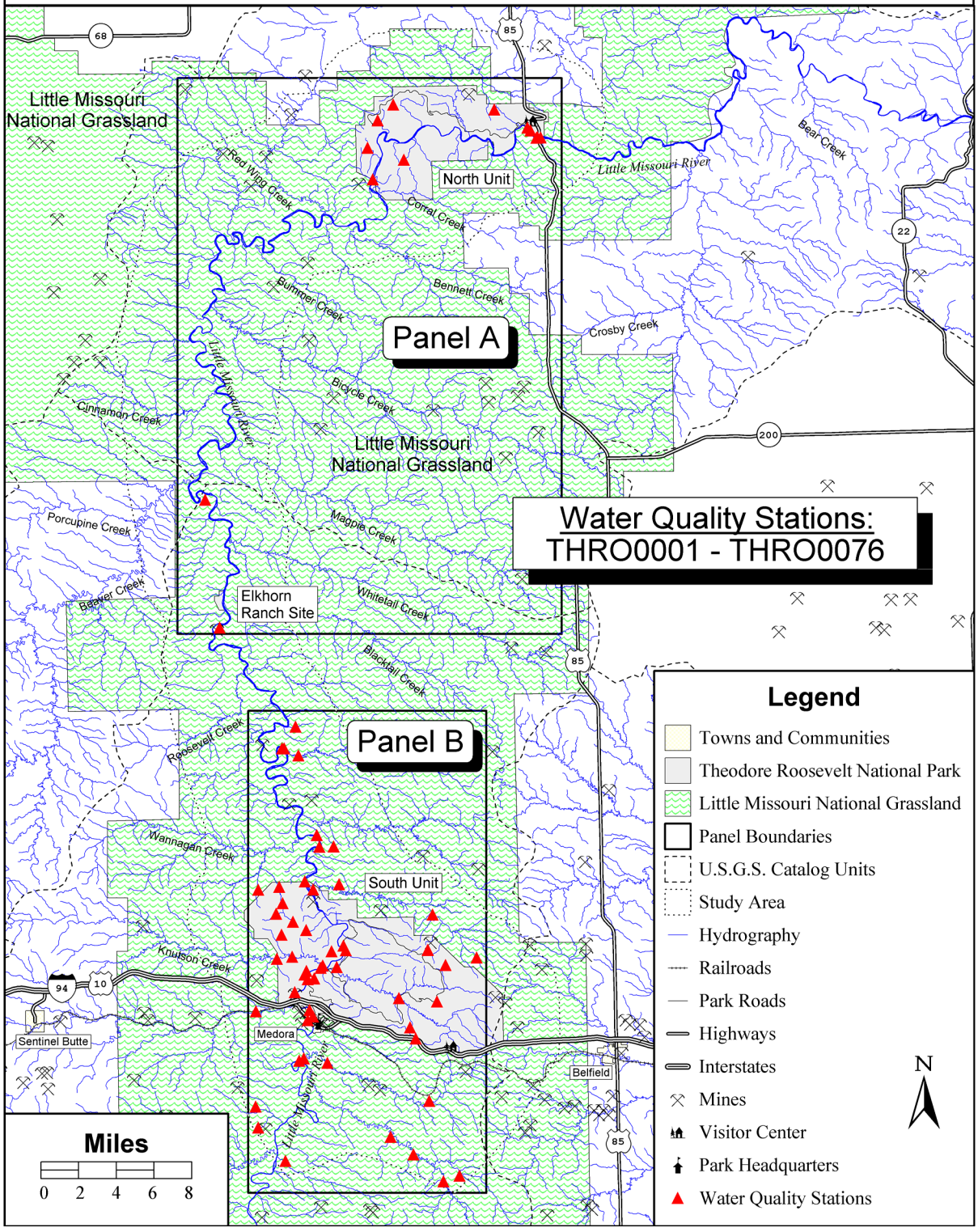
Regional Location Map



Theodore Roosevelt National Park

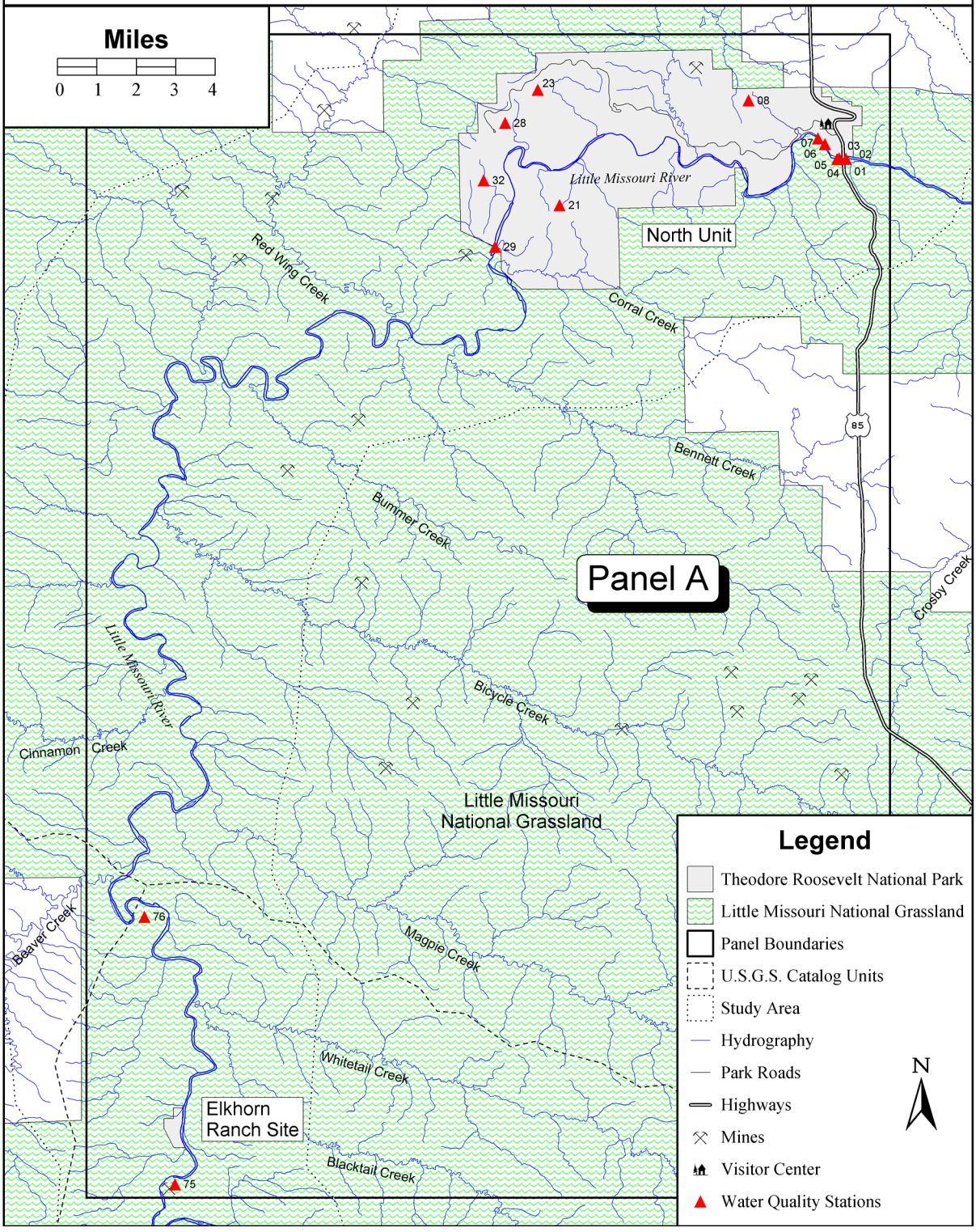
Water Quality Monitoring Locations

Graphic Panel Index



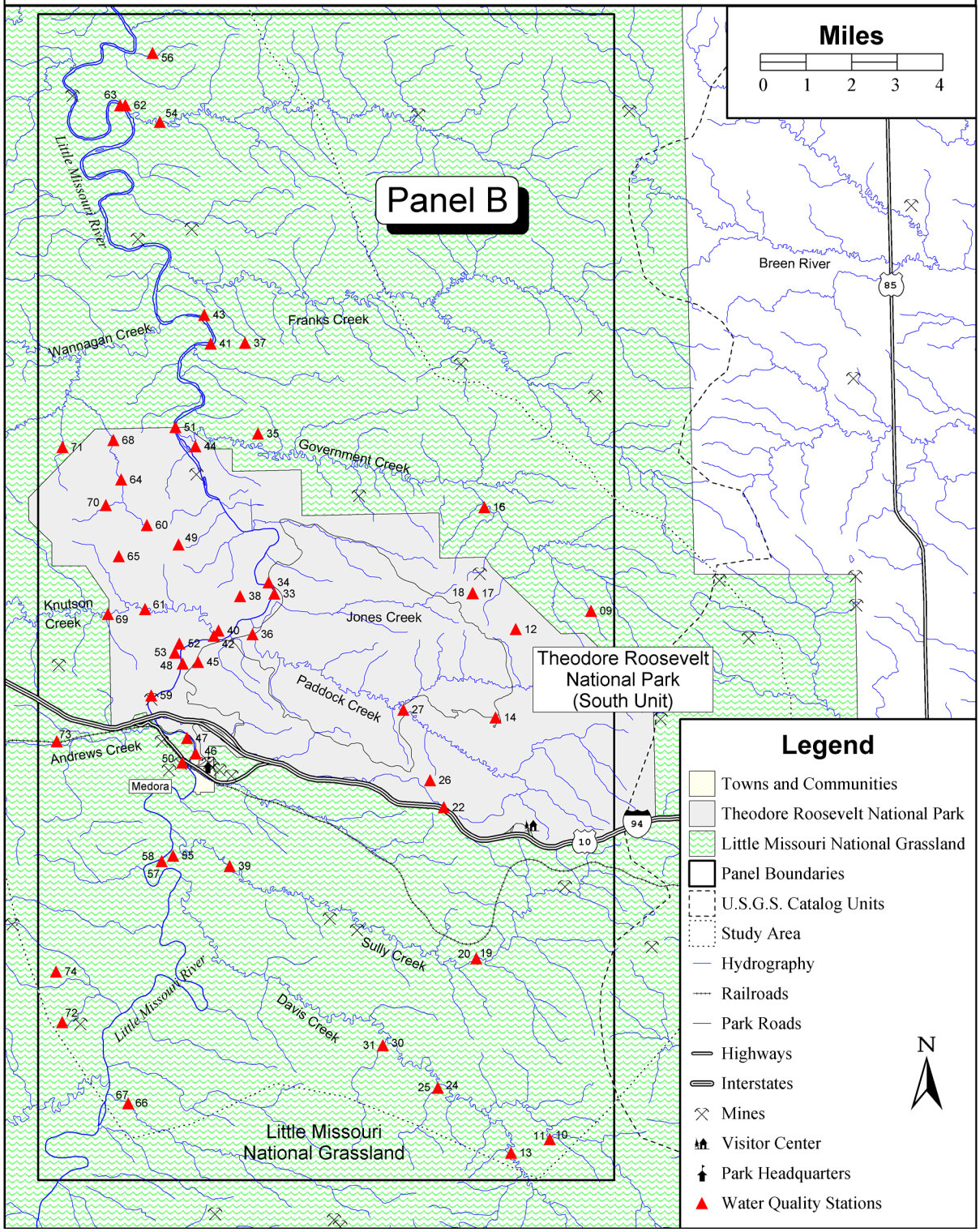
Theodore Roosevelt National Park

Water Quality Monitoring Locations



Theodore Roosevelt National Park

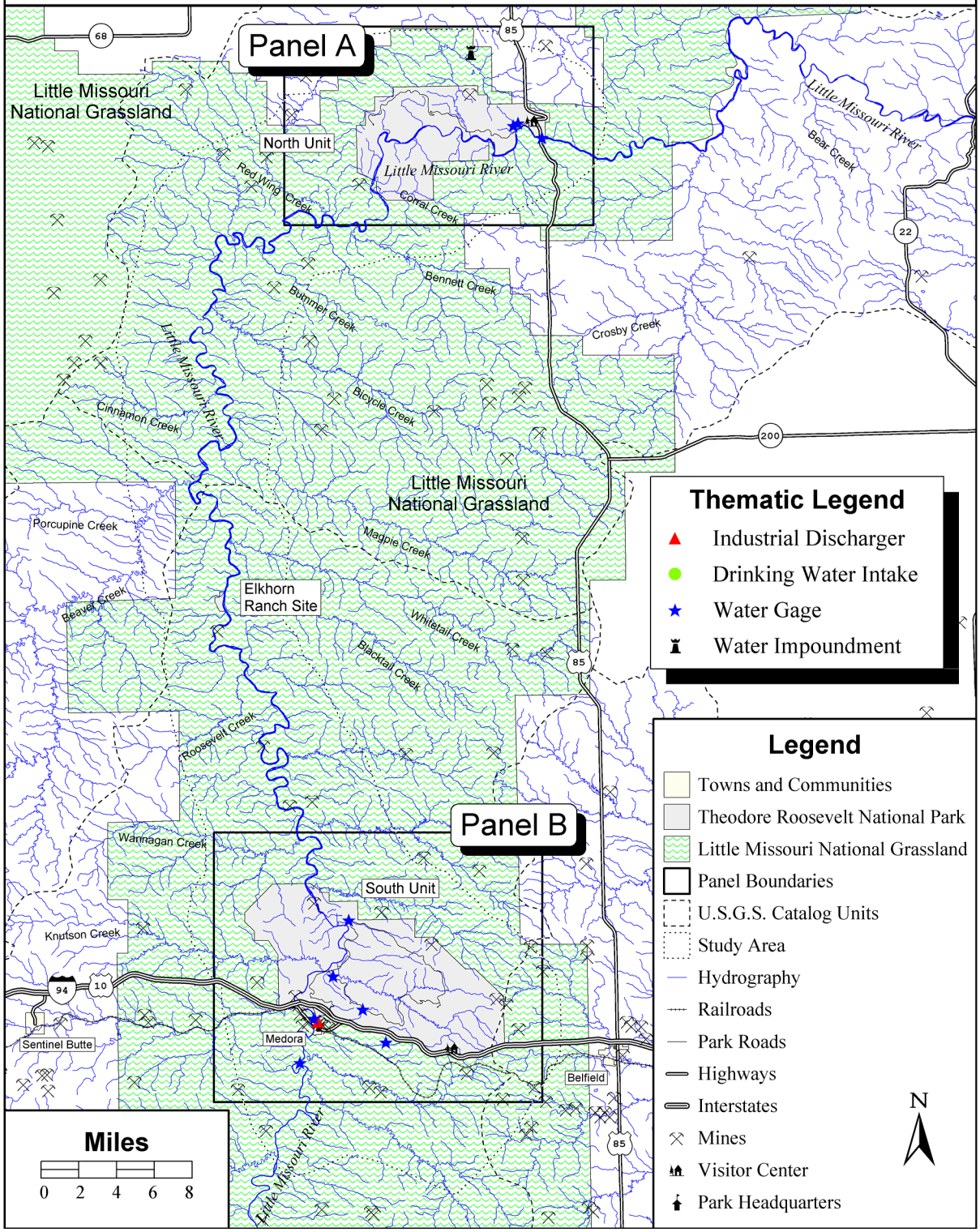
Water Quality Monitoring Locations



Theodore Roosevelt National Park

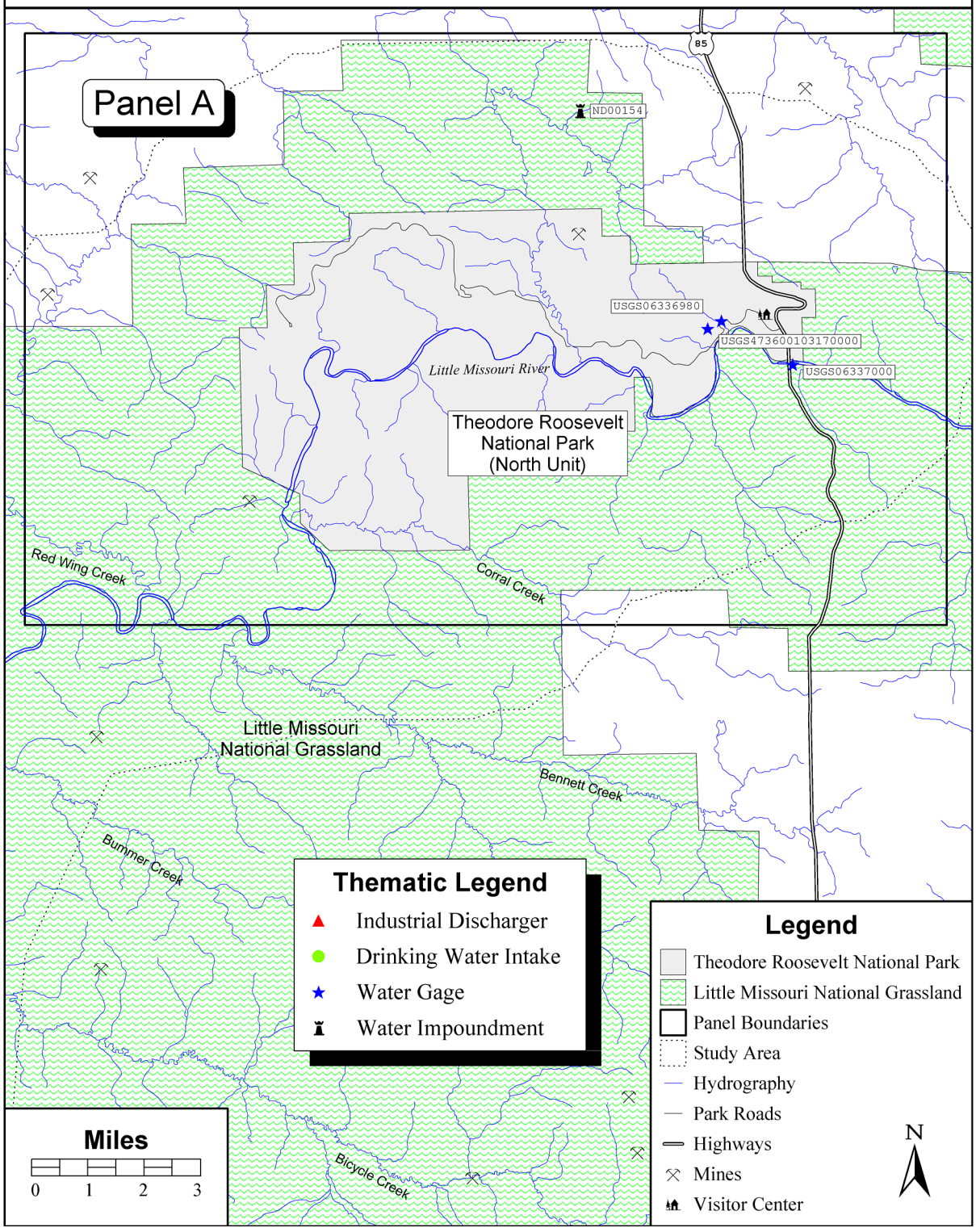
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

Graphic Panel Index



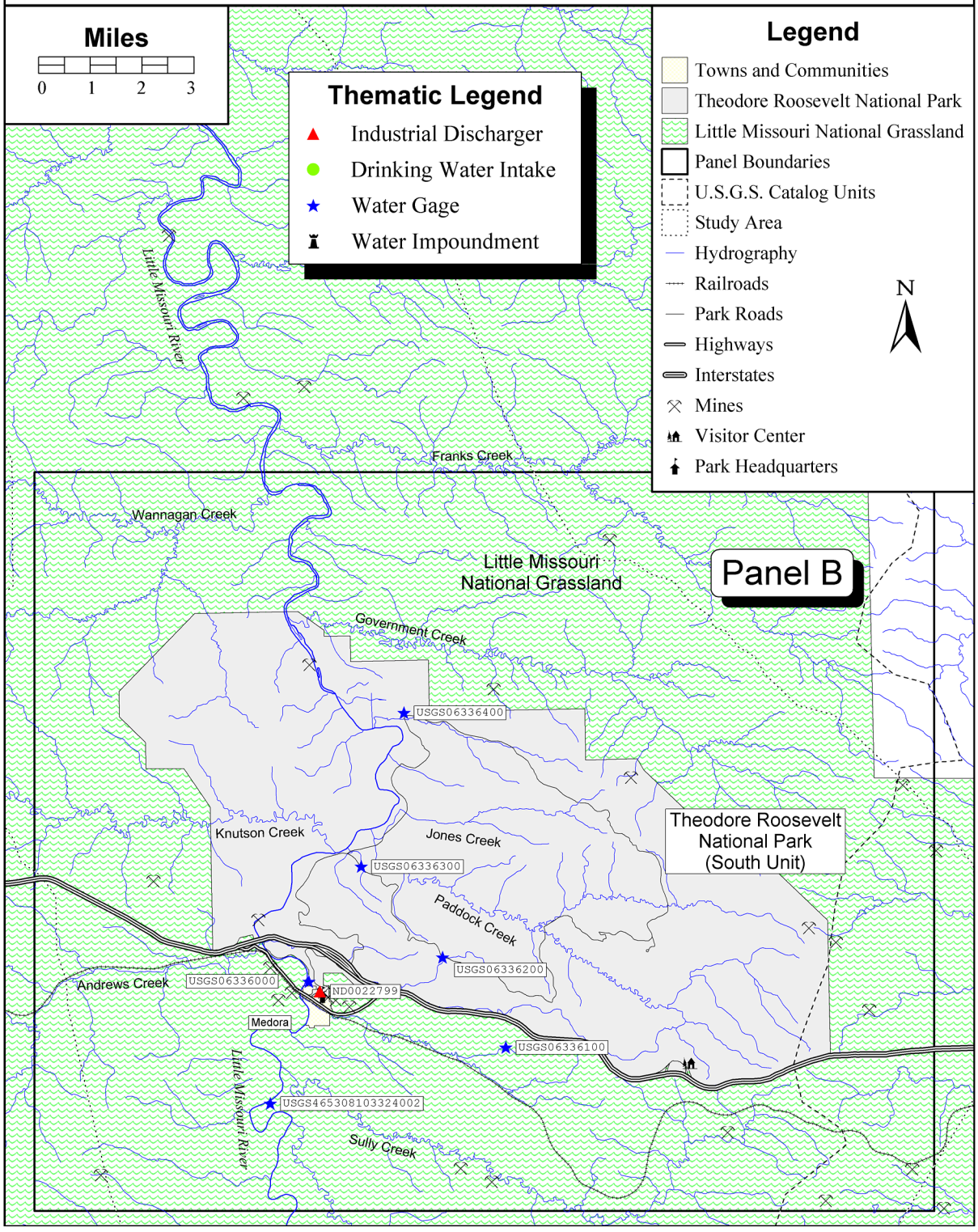
Theodore Roosevelt National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Theodore Roosevelt National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
ND0022799	MEDORA CITY OF	.....	MEDORA	.....

Drinking Water Intakes

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

No drinking water intakes available for this study area.

Water Gages

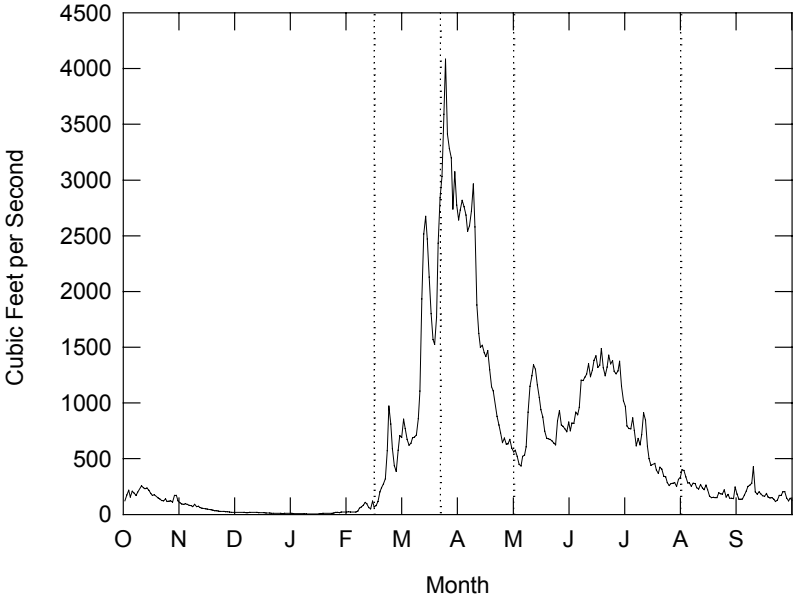
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS06336000	LITTLE MISSOURI RIVER AT MEDORA, ND	Stream	6190.00	1903	1975
USGS06336100	SHEEP CR TRI NEAR ME	Stream	29.00		
USGS06336200	SHEEP CR TRI 2 NEAR	Stream	42.00		
USGS06336300	LITTLE MISSOURI R TR	Stream	32.00		
USGS06336400	JULES CREEK NEAR MED	Stream	3.80		
USGS06336980	LITTLE MISSOURI R TR	Stream	2.02		
USGS06337000	LITTLE MISSOURI RIVER NR WATFORD CITY, ND	Stream	8310.00	1935	1994
USGS465308103324002	139-102-03BCB2	Well			
USGS473600103170000	NWS WATFORD CITY 14 S	Climate			

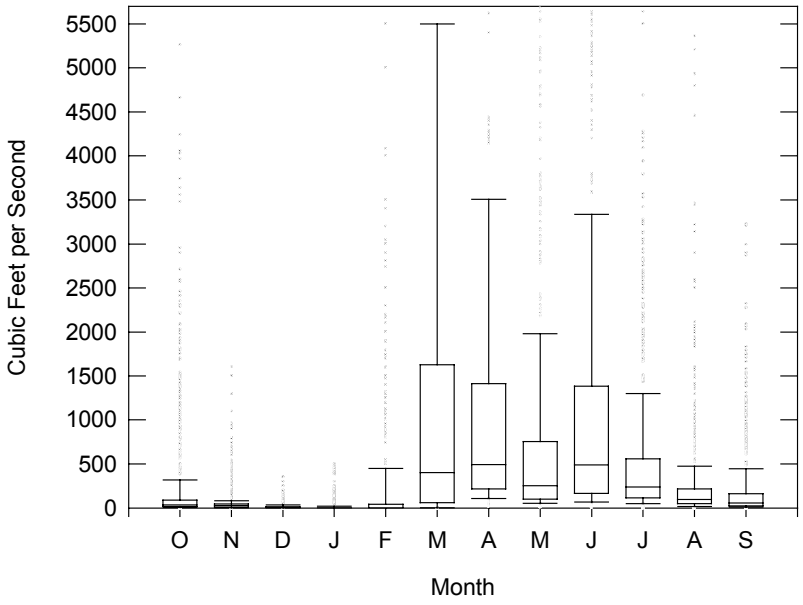
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
ND00154	ROUGHRIDER DAM	USDA FS	Other	Earth	Low	1966

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

THEODORE ROOSEVELT NATIONAL PARK
Little Missouri River near Watford City, ND
06337000, 53 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 Theodore Roosevelt National Park are: Aug. 1 to Feb. 14, Feb. 15 to Mar. 19, Mar. 20 to Apr. 30, and May 1 to Jul. 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR THRO

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
112WRD	WILLIAMS, OWEN	US GEOLOGICAL SURVEY	(703)648-5610	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
21NDHDWQ	ELL, MICHAEL	N.DAKOTA HEALTH DEPT	(701)221-5210	
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259	
11NATDC	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	
11BIOACC	KRONER, STEVE	U.S. EPA MDSD	(202)260-4761	
121MBRCE	KERSH, GARLAND	CORPS OF ENGINEERS	(816)842-6039	

QUANTITY OF DATA RETRIEVED FOR THRO 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
112WRD	US GEOLOGICAL SURVEY	10/03/49-03/18/96	10/03/49-03/18/96	40	8	2	2	1	0	14372	13515	293	259
11NPSWRD	NATIONAL PARK SERVICE	10/30/86-07/05/95	10/30/86-07/05/95	30	25	0	0	0	0	922	791	36	36
21NDHDWQ	N.DAKOTA HEALTH DEPT	06/26/68-10/14/92	No Data in Park	2	0	1	0	0	0	2955	0	90	0
11EPALES	USEPA	09/22/74-08/22/75	No Data in Park	1	0	0	0	0	0	47	0	7	0
11NATDC	USEPA HQ	No Data in S.A.	No Data in Park	1	0	0	0	1	0	0	0	0	0
11BIOACC	U.S. EPA MDSD	10/04/84-10/04/84	No Data in Park	1	0	0	0	0	0	101	0	64	0
121MBRCE	CORPS OF ENGINEERS	05/11/68-06/08/76	No Data in Park	1	0	1	0	0	0	1137	0	45	0
Totals		10/03/49-03/18/96	10/03/49-03/18/96	76	33	4	2	2	0	19534	14306	399	274

[1]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.

Station Period of Record Tabulation
From 10/03/49 To 03/18/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75
THRO0001	LITTLE MISSOURI RIVER	No	47	0	28	19
THRO0002	LITTLE MISSOURI R NR WATFORD CITY	No	0	0	0	0
THRO0003	LITTLE MISSOURI RIVER @ WATFORD CITY	No	101	0	101	0
THRO0004	LITTLE MISSOURI R ON HWY 85	No	24	0	0	24
THRO0005[1]	LITTLE MISSOURI R NEAR WATFORD	No	1137	0	239	898
THRO0006[1]	LITTLE MISSOURI RIVER NR WATFORD CITY, ND	Yes	11781	5245	5595	941
THRO0007	LITTLE MISSOURI RIVER-NORTH UNIT-EAST	No	40	40	0	0
THRO0008	STEVENS SPRING	Yes	40	40	0	0
THRO0009	FRANK MINE LAKE-MAIN 140-100-07ABD	No	16	0	16	0
THRO0010	138-101-01CBB	No	28	0	28	0
THRO0011	DAVIS CREEK 138-101-01CBB	No	29	0	29	0
THRO0012	SHEEP BUTTE SPRING	Yes	40	40	0	0
THRO0013	DAVIS CREEK 138-101-02CDB	No	29	0	29	0
THRO0014	BUCK HILL SPRING	Yes	40	40	0	0
THRO0015	GOVERNMENT CREEK 141-100-29CCB	No	29	0	29	0
THRO0016	141-100-29CCB	No	28	0	28	0
THRO0017	BOICOURT SPRING "A"	Yes	20	20	0	0
THRO0018	BOICOURT SPRING	Yes	39	39	0	0
THRO0019	SULLY CREEK 139-101-15DAA	No	29	0	29	0
THRO0020	139-101-15DAA	No	26	0	26	0
THRO0021	ACHENBACH SPRING	Yes	39	39	0	0
THRO0022	PECK HILL SEEP	Yes	20	20	0	0
THRO0023	HAGAN SPRING	Yes	38	38	0	0
THRO0024	139-101-34BCC	No	26	0	26	0
THRO0025	DAVIS CREEK 139-101-34BCC	No	29	0	29	0
THRO0026	DEDICATION SPRING	Yes	39	39	0	0
THRO0027	PADDOCK CREEK AT LOOP ROAD EAST	Yes	2	2	0	0
THRO0028	OVERLOOK SPRING	Yes	39	39	0	0
THRO0029	LITTLE MISSOURI RIVER-NORTH UNIT-SOUTHWEST	No	40	40	0	0
THRO0030	DAVIS CREEK 139-101-29ADD	No	29	0	29	0
THRO0031	139-101-29ADD	No	26	0	26	0
THRO0032	MANDAL SPRING	Yes	19	19	0	0
THRO0033	JONES CREEK AT CONFLUENCE, ND	Yes	21	0	0	21
THRO0034	LITTLE MISSOURI BEEF CORRAL #6, ND	Yes	28	0	28	0
THRO0035	141-101-21BBC	No	19	0	0	19
THRO0036	PADDOCK CREEK AT HALLIDAY WELL	Yes	2	2	0	0
THRO0037	141-101-08BBD	No	0	0	0	0
THRO0038	BIG PLATEAU SPRING	Yes	40	40	0	0
THRO0039	SULLY CREEK NR HELLICKSON RANCH, ND	No	21	0	0	21
THRO0040	LITTLE MISSOURI PEACEFUL VALLEY #5, ND	Yes	30	0	30	0
THRO0041	LITTLE MISSOURI R NR DRY CREEK, ND	No	21	0	0	21
THRO0042	KNUTSON CREEK AT LITTLE MISSOURI	Yes	42	42	0	0
THRO0043	LITTLE MISSOURI BRIGG'S OLD PLACE, ND	No	30	0	30	0
THRO0044	141-101-19ACD	Yes	20	0	0	20
THRO0045	LITTLE MISSOURI MEDORA CAMPGROUND #9	Yes	40	40	0	0
THRO0046[1]	LITTLE MISSOURI RIVER AT MEDORA, ND	Yes	1584	0	145	1439
THRO0047	140-102-22DBD	No	28	0	28	0
THRO0048	LITTLE MISSOURI COTTONWOOD CAMPGROUND, ND	Yes	32	0	32	0
THRO0049	SHEEP PASTURE SPRING	Yes	39	39	0	0
THRO0050[1]	LITTLE MISSOURI R - MEDORA, ND	No	2931	916	1197	818
THRO0051	LITTLE MISSOURI RIVER-NORTH BOUNDARY	No	40	40	0	0
THRO0052	LITTLE MISSOURI R NR MEDORA, ND	Yes	19	0	0	19
THRO0053	KNUTSON CREEK SPRING	Yes	39	39	0	0
THRO0054	ASH CREEK NR CONFLUENCE, ND	No	21	0	0	21
THRO0055	139-102-03BAC	No	29	0	29	0
THRO0056	142-102-01DDA	No	59	0	0	59
THRO0057	139-102-03BCB1	No	29	0	29	0
THRO0058	139-102-03BCB2	No	54	0	54	0
THRO0059	SOUTHEAST CORNER SPRING	Yes	39	39	0	0
THRO0060	WANNAGAN SEEPS	Yes	39	39	0	0
THRO0061	TOMAMICHAEL WELL	Yes	40	40	0	0
THRO0062	LITTLE MISSOURI AT ASH COULEE #8, ND	No	28	0	28	0
THRO0063	LITTLE MISSOURI R NR ASH CREEK, ND	No	19	0	0	19
THRO0064	MID DRAINAGE OF WANNAGAN CREEK TRIBUTARY	Yes	24	24	0	0
THRO0065	LONE TREE SPRING	Yes	39	39	0	0
THRO0066	139-102-33ACC	No	26	0	26	0
THRO0067	LITTLE MISSOURI R TRIB. 139-102-33ACC	No	29	0	29	0
THRO0068	WANNAGAN CREEK TRIBUTARY AT NORTH BOUNDARY	Yes	29	29	0	0
THRO0069	KNUTSON CREEK AT WEST BOUNDARY	No	9	9	0	0
THRO0070	UPPER DRAINAGE OF WANNAGAN CREEK TRIBUTARY	Yes	4	4	0	0
THRO0071	WANNAGAN CREEK TRIBUTARY NORTHWEST OF PARK	No	2	2	0	0

Station Period of Record Tabulation
From 10/03/49 To 03/18/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75
THRO0072	139-102-19DDB	No	20	0	0	20
THRO0073	ANDREWS CREEK AT WEST RIVER ROAD, ND	No	21	0	0	21
THRO0074	139-102-18DBD	No	20	0	0	20
THRO0075	143-102-09BCC2	No	29	0	29	0
THRO0076	LITTLE MISSOURI GOLDSBERRY RANCH #9, ND	No	30	0	30	0

[1]Longer 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 10/03/49 To 03/18/96

Parameter Code	Name	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	24	18	6	0	4	1
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	434	351	83	0	1	1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	949	447	291	211	16	5
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10	0	0	10	1	0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	176	75	68	33	3	2
00025	BAROMETRIC PRESSURE (MM OF HG)	130	96	34	0	1	1
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	626	446	178	2	15	1
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	659	446	211	2	20	2
00032	CLOUD COVER (PERCENT)	35	26	9	0	2	1
00035	WIND VELOCITY (MILES PER HOUR)	33	26	7	0	1	1
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	33	26	7	0	1	1
00049	SURFACE AREA IN SQUARE MILES	101	0	0	101	1	1
00060	FLOW, STREAM, MEAN DAILY CFS	70	0	0	70	2	2
00061	FLOW, STREAM, INSTANTANEOUS CFS	320	77	111	132	4	4
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	11	0	2	9	1	1
00065	STAGE, STREAM (FEET)	71	2	21	48	2	1
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	39	0	9	30	1	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	43	0	30	13	2	1
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	15	0	0	15	1	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	108	34	61	13	2	1
00080	COLOR (PLATINUM-COBALT UNITS)	13	0	8	5	3	1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	16	0	15	1	2	0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	860	465	234	161	39	25
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)	2	2	0	0	1	1
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	28	7	21	0	2	0
00300	OXYGEN, DISSOLVED MG/L	766	409	236	121	5	2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	204	111	87	6	2	2
00310	BOD, 5 DAY, 20 DEG C MG/L	64	0	0	64	3	1
00335	COD, .025N K2CR2O7 MG/L	3	0	3	0	1	0
00340	COD, .25N K2CR2O7 MG/L	22	0	22	0	1	1
00400	PH (STANDARD UNITS)	764	417	222	125	28	8
00403	PH, LAB, STANDARD UNITS SU	247	105	69	73	26	21
00405	CARBON DIOXIDE (MG/L AS CO2)	80	0	44	36	25	8
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	286	94	91	101	50	28
00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	17	17	0	0	1	1
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	15	15	0	0	1	1
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	1	1	0	0	1	1
00440	BICARBONATE ION (MG/L AS HCO3)	198	76	61	61	49	28
00445	CARBONATE ION (MG/L AS CO3)	171	76	61	34	49	28
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	15	15	0	0	1	1
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	15	15	0	0	1	1
00451	BICARBONATE,FIXED ENDPOINT TITR. (HCO3) LAB MG/L	1	1	0	0	1	1
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	20	20	0	0	1	1
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	20	20	0	0	1	1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	28	0	0	28	1	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	4	4	0	0	3	2
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	4	0	3	1	1	1
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	3	0	3	0	1	1
00600	NITROGEN, TOTAL (MG/L AS N)	56	0	47	9	2	2
00602	NITROGEN, DISSOLVED (MG/L AS N)	18	0	18	0	1	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	31	1	30	0	2	2
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17	0	17	0	1	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	65	34	31	0	1	1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	149	59	74	16	8	4
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	31	31	0	0	1	1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	32	9	21	2	2	1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	95	57	30	8	37	25
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	104	0	46	58	4	1
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	35	2	33	0	1	1
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	29	0	29	0	1	1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	115	36	67	12	6	3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	102	23	57	22	8	4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	71	38	32	1	3	2
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	80	0	23	57	5	2
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	46	0	15	31	9	5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	199	62	111	26	5	2
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	119	50	62	7	4	2
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	13	0	13	0	13	0
00669	PHOSPHORUS, TOTAL HYDROLYZABLE (MG/L AS P)	6	0	6	0	1	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	112	48	35	29	5	2
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	27	0	24	3	1	1

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	22	0	22	0	2	2
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	13	0	13	0	13	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	17	0	17	0	2	2
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	9	0	8	1	2	1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	403	71	138	194	51	28
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	8	0	0	8	1	0
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	112	0	59	53	25	8
00903	HARDNESS,NON-CARBONATE,FIXED ENDPT. TIT. LAB MG/L	19	0	19	0	1	1
00910	CALCIUM (MG/L AS CACO3)	23	0	9	14	1	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	168	36	79	53	25	8
00916	CALCIUM, TOTAL (MG/L AS CA)	105	71	34	0	24	20
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	13	0	13	0	13	0
00920	MAGNESIUM (MG/L AS CACO3)	22	0	9	13	1	0
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	13	0	13	0	13	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	168	36	79	53	25	8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	105	71	34	0	24	20
00929	SODIUM, TOTAL (MG/L AS NA)	105	71	34	0	24	20
00930	SODIUM, DISSOLVED (MG/L AS NA)	181	36	88	57	26	8
00931	SODIUM ADSORPTION RATIO	197	70	91	36	49	28
00932	SODIUM, PERCENT	336	70	129	137	50	28
00933	SODIUM,PLUS POTASSIUM (MG/L)	27	0	10	17	2	2
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	13	0	13	0	13	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	181	36	96	49	27	8
00937	POTASSIUM, TOTAL MG/L AS K)	90	71	19	0	24	20
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	13	0	13	0	13	0
00940	CHLORIDE,TOTAL IN WATER MG/L	452	107	144	201	51	28
00945	SULFATE, TOTAL (MG/L AS SO4)	450	107	143	200	51	28
00950	FLUORIDE, DISSOLVED (MG/L AS F)	167	36	79	52	24	8
00951	FLUORIDE, TOTAL (MG/L AS F)	64	43	21	0	24	21
00955	SILICA, DISSOLVED (MG/L AS SI02)	166	34	79	53	25	8
01000	ARSENIC, DISSOLVED (UG/L AS AS)	71	27	40	4	3	2
01001	ARSENIC, SUSPENDED (UG/L AS AS)	20	0	17	3	1	1
01002	ARSENIC, TOTAL (UG/L AS AS)	68	18	47	3	2	1
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	13	0	13	0	13	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	70	34	35	1	3	2
01006	BARIUM, SUSPENDED (UG/L AS BA)	14	0	14	0	1	1
01007	BARIUM, TOTAL (UG/L AS BA)	60	18	42	0	2	1
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	13	0	13	0	13	0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	35	25	9	1	2	2
01012	BERYLLIUM, TOTAL (UG/L AS BE)	23	0	23	0	2	1
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	13	0	13	0	13	0
01020	BORON, DISSOLVED (UG/L AS B)	32	0	15	17	13	5
01022	BORON, TOTAL (UG/L AS B)	21	0	21	0	1	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	63	25	34	4	3	2
01026	CADMIUM, SUSPENDED (UG/L AS CD)	15	0	12	3	1	1
01027	CADMIUM, TOTAL (UG/L AS CD)	69	18	48	3	2	1
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	13	0	13	0	13	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	63	25	34	4	3	2
01031	CHROMIUM, SUSPEND (UG/L AS CR)	18	0	15	3	1	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	73	18	52	3	2	1
01035	COBALT, DISSOLVED (UG/L AS CO)	66	34	28	4	2	2
01036	COBALT, SUSPENDED (UG/L AS CO)	17	0	14	3	1	1
01037	COBALT, TOTAL (UG/L AS CO)	38	0	35	3	1	1
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	13	0	13	0	13	0
01040	COPPER, DISSOLVED (UG/L AS CU)	64	25	35	4	3	2
01041	COPPER, SUSPENDED (UG/L AS CU)	22	0	19	3	1	1
01042	COPPER, TOTAL (UG/L AS CU)	73	18	52	3	2	1
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	13	0	13	0	13	0
01044	IRON, SUSPENDED (UG/L AS FE)	12	0	12	0	1	1
01045	IRON, TOTAL (UG/L AS FE)	57	0	35	22	3	2
01046	IRON, DISSOLVED (UG/L AS FE)	91	36	43	12	13	5
01049	LEAD, DISSOLVED (UG/L AS PB)	70	27	39	4	3	2
01050	LEAD, SUSPENDED (UG/L AS PB)	19	0	16	3	1	1
01051	LEAD, TOTAL (UG/L AS PB)	60	18	39	3	2	1
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	13	0	13	0	13	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	22	0	19	3	1	1
01055	MANGANESE, TOTAL (UG/L AS MN)	117	71	43	3	25	21
01056	MANGANESE, DISSOLVED (UG/L AS MN)	91	35	42	14	14	5
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	46	36	9	1	2	2
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	24	0	24	0	2	1
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	13	0	13	0	13	0

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01065	NICKEL, DISSOLVED (UG/L AS NI)	53	34	18	1	2	2
01066	NICKEL, SUSPENDED (UG/L AS NI)	9	0	9	0	1	1
01067	NICKEL, TOTAL (UG/L AS NI)	28	0	28	0	1	1
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	13	0	13	0	13	0
01075	SILVER, DISSOLVED (UG/L AS AG)	58	34	23	1	2	2
01076	SILVER, SUSPENDED (UG/L AS AG)	10	0	10	0	1	1
01077	SILVER, TOTAL (UG/L AS AG)	31	0	31	0	1	1
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	13	0	13	0	13	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	46	36	9	1	2	2
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	13	0	13	0	13	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	43	34	9	0	1	1
01087	VANADIUM, TOTAL (UG/L AS V)	3	0	3	0	1	0
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	13	0	13	0	13	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	69	25	40	4	3	2
01091	ZINC, SUSPENDED (UG/L ZN)	19	0	16	3	1	1
01092	ZINC, TOTAL (UG/L AS ZN)	68	18	47	3	2	1
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	13	0	13	0	13	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	22	0	22	0	2	1
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	44	34	9	1	2	2
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	13	0	13	0	13	0
01130	LITHIUM, DISSOLVED (UG/L AS LI)	46	36	9	1	2	2
01132	LITHIUM, TOTAL (UG/L AS LI)	24	0	24	0	2	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	80	36	40	4	3	2
01146	SELENIUM, SUSPENDED (UG/L AS SE)	21	0	18	3	1	1
01147	SELENIUM, TOTAL (UG/L AS SE)	68	18	47	3	2	1
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	13	0	13	0	13	0
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	13	0	13	0	13	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	13	0	13	0	13	0
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	1	0	1	0	1	0
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	1	0	1	0	1	0
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	1	0	1	0	1	0
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	1	0	1	0	1	0
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	1	0	1	0	1	0
22703	URANIUM, NATURAL, DISSOLVED	1	0	1	0	1	0
28011	URANIUM,NATURAL,TOTAL UG/L AS U	13	0	13	0	13	0
30191	DINOSEB, WATER, WHOLE, RECOVERABLE UG/L	2	2	0	0	2	2
30192	MCPA, WATER, WHOLE, RECOVERABLE UG/L	2	2	0	0	2	2
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	3	0	3	0	1	0
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	3	0	3	0	1	0
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	3	0	3	0	1	0
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	3	0	3	0	1	0
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	3	0	3	0	1	0
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	3	0	3	0	1	0
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	3	0	3	0	1	0
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	3	0	3	0	1	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	98	0	22	76	3	1
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	19	6	13	0	1	0
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	3	0	3	0	1	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	125	22	52	51	4	1
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	73	21	52	0	1	1
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	72	21	51	0	1	1
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	15	0	9	6	1	1
34351	ENDOSULFAN SULFATE TOTWUG/L	3	3	0	0	1	0
34356	ENDOSULFAN, BETA TOTWUG/L	3	3	0	0	1	0
34361	ENDOSULFAN, ALPHA TOTWUG/L	3	3	0	0	1	0
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	1	0	1	0	1	0
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34685	ENDRIN WET WGTTISMG/KG	1	0	1	0	1	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	1	0	1	0	1	0
34687	HEPTACHLOR WET WGTTISMG/KG	1	0	1	0	1	0
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	3	0	3	0	1	0
38710	BENTAZON WATER, TOTUG/L	2	2	0	0	2	2
38824	ISOPROPALIN TISWETWGTMG/KG	1	0	1	0	1	0
39025	SIMAZINE,COULSON CONDUCTIVITY,WATER SAMPLE(UG/L)	4	0	4	0	1	1

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From 10/03/49 To 03/18/96

Parameter Code	Name	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	3	3	0	0	1	0
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	2	0	2	0	1	1
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	3	3	0	0	1	0
39046	SIMAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	1	0	1	0	1	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	1	0	1	0	1	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	1	0	1	0	1	0
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	20	20	0	0	1	1
39151	MCPA-2,4D,4-CHLOR-2METHYLPHENOXY ACETIC UG/L	2	2	0	0	1	0
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	2	0	2	0	1	1
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	1	0	1	0	1	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	0	6	0	1	1
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	12	0	12	0	1	1
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	6	0	6	0	1	1
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	15	3	12	0	2	1
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	6	0	6	0	1	1
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	0	6	0	1	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	0	6	0	1	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	0	6	0	1	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	6	0	6	0	1	1
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	2	0	2	0	1	1
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	0	6	0	1	1
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	0	4	0	1	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	6	0	6	0	1	1
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	1	0	1	0	1	0
39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	6	0	6	0	1	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	6	0	6	0	1	1
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	6	0	6	0	1	1
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	0	2	0	1	1
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	9	0	9	0	1	1
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	0	4	0	1	1
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	4	0	4	0	1	1
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	4	0	4	0	1	1
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	4	0	4	0	1	1
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	1
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	4	0	4	0	1	1
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0	1	1
39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	20	20	0	0	8	6
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	15	7	8	0	5	3
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	13	5	8	0	4	3
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39755	MIREX, TOTAL (UG/L)	2	0	2	0	1	1
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10	2	8	0	3	3

Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Parameter Code	Name	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	1
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	3	3	0	0	1	0
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	1	0	1	0	1	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	0	4	0	1	1
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	1
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	4	0	4	0	1	1
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	16	16	0	0	8	6
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	1	0	1	0	1	0
60050	ALGAE, TOTAL (CELLS/ML)	34	0	29	5	1	1
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	91	0	16	75	2	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	221	79	94	48	38	25
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	164	28	98	38	26	8
70302	SOLIDS, DISSOLVED-TONS PER DAY	88	0	61	27	4	4
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	110	0	66	44	16	7
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	9	0	0	9	1	1
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10	0	0	10	1	1
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10	0	0	10	1	1
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	7	0	0	7	1	1
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	7	0	0	7	1	1
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	136	31	47	58	2	2
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	32	0	0	32	1	1
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	32	0	0	32	1	1
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	26	0	0	26	1	1
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	11	0	0	11	1	1
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	3	0	0	3	1	1
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	37	0	3	34	2	2
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	93	0	9	84	2	2
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	25	0	2	23	2	2
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	70	0	9	61	2	2
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	17	0	3	14	2	2
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	24	0	8	16	1	1
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	17	0	5	12	1	1
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	12	0	4	8	1	1
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	4	0	3	1	1	1
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	2	0	2	0	1	1
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	4	4	0	0	3	2
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	42	9	15	18	3	1
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	3	0	3	0	1	1
70955	CHLOROPHYLL-A,PERIDHYTON UG/L,CHROMO-SPECTRO	1	0	1	0	1	1
70956	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-SPECTRO	1	0	1	0	1	1
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	5	0	5	0	1	1
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	5	0	5	0	1	1
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	3	0	3	0	1	0
70979	BROMOXYNIL, WATER, WHOLE UG/L	2	2	0	0	2	2
71825	ACIDITY, TOTAL (MG/L AS H)	1	1	0	0	1	1
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	26	0	24	2	3	2
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	27	1	26	0	1	1
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	28	0	11	17	2	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	22	0	14	8	13	5
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	35	3	32	0	2	2
71887	NITROGEN, TOTAL, AS NO3 - MG/L	56	0	47	9	2	2
71890	MERCURY, DISSOLVED (UG/L AS HG)	59	27	28	4	2	2
71895	MERCURY, SUSPENDED (UG/L AS HG)	20	0	17	3	1	1
71900	MERCURY, TOTAL (UG/L AS HG)	56	0	44	12	2	1
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	2	0	2	0	1	0
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	101	0	0	101	1	1
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	1	0	1	0	1	0
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	445	351	94	0	1	1
74010	IRON, TOTAL (MG/L AS FE)	81	71	10	0	24	20
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	1	0	1	0	1	0
77825	ALACHLOR WHOLE WATER,UG/L	3	3	0	0	1	0
78062	NONACHLOR, TRANS, WHOLE WATER UG/L	3	3	0	0	1	0
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	1	0	1	0	1	0
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	1	0	1	0	1	0
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	1	0	1	0	1	0
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	1	0	1	0	1	0
79190	PENDIMETHALIN, WATER, WHOLE UG/L	3	3	0	0	1	0
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	1	0	1	0	1	0
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	1	0	1	0	1	0
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	1	0	1	0	1	0

Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Parameter Code	Name	Total Obs	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	1	0	1	0	1	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	182	30	58	94	2	2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	63	0	45	18	1	1
80157	BED MATERIAL FALL DIAMETER, % FINER THAN .004MM	1	0	0	1	1	1
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	22	0	5	17	1	1
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	24	0	7	17	2	2
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	24	0	7	17	2	2
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	24	0	7	17	2	2
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	23	0	6	17	2	2
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	3	0	3	0	2	2
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	23	0	6	17	2	2
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	21	0	6	15	2	2
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	18	0	5	13	2	2
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	18	0	5	13	2	2
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	7	0	4	3	1	1
81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	3	3	0	0	1	0
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	1	0	1	0	1	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	1	0	1	0	1	0
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	1	0	1	0	1	0
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	0
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	3	3	0	0	1	0
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	0
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	1	0	1	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	2	0	2	0	1	1
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	1	0	1	0	1	0
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	2	2	0	0	2	2
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	5	0	5	0	1	1
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	31	31	0	0	21	18
82130	ICE, THICKNESS IN FEET	31	25	6	0	1	1
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	4	2	2	0	3	3
82398	SAMPLING METHOD (CODES)	32	3	27	2	8	1
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	28	0	18	10	28	3
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	28	0	18	10	28	3
84007	ANATOMY ALPHA CODE	3	0	3	0	1	0
85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85682	NITROFEN TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85683	PERTHANE TISSUE,WET,WT,MG/KG	1	0	1	0	1	0
85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	1	0	1	0	1	0

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0003	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/04/84-10/04/84	0	3	
THRO0005	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/27/76-06/08/76	0	2	
THRO0006	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/02/86-08/25/93	6	18	
THRO0050	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/08/79-04/08/79	0	1	
THRO0006	Yes	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	05/02/83-08/25/93	10	434	
THRO0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/73-11/08/73	0	2	
THRO0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/70-06/08/76	6	50	
THRO0006	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	24	679	
THRO0034	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	0	1	
THRO0040	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/11/76-11/11/76	0	1	
THRO0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	0	1	
THRO0046	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	7	60	
THRO0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/11/76-11/11/76	0	1	
THRO0050	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	24	147	
THRO0055	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/77-07/26/77	0	1	
THRO0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/77-07/26/77	0	1	
THRO0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/77-09/29/77	0	1	
THRO0062	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	0	1	
THRO0075	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/11/77-08/11/77	0	1	
THRO0076	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	0	1	
THRO0005	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/08/71-05/10/72	1	10	
THRO0005	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/71-06/08/76	5	42	
THRO0006	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	21	133	
THRO0046	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/10/79-05/10/79	0	1	
THRO0006	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	13	130	
THRO0006	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/10/74-03/18/96	21	612	
THRO0009	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/02/84-04/02/84	0	1	
THRO0010	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0011	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0013	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0015	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0016	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0019	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0020	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0024	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0025	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0030	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0031	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/83-08/22/83	0	1	
THRO0066	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/26/83-08/26/83	0	1	
THRO0067	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/26/83-08/26/83	0	1	
THRO0006	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/10/74-03/18/96	21	639	
THRO0009	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/02/84-04/02/84	0	1	
THRO0010	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0011	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0013	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0015	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0016	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0019	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0020	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0024	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0025	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0030	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0031	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/83-08/22/83	0	1	
THRO0046	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/10/79-05/10/79	0	1	
THRO0055	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/26/77-07/26/77	0	1	
THRO0057	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/26/77-07/26/77	0	1	
THRO0058	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/29/77-08/21/80	2	2	
THRO0066	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/26/83-08/26/83	0	1	
THRO0067	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/26/83-08/26/83	0	1	
THRO0075	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/11/77-08/11/77	0	1	
THRO0005	No	00032	CLOUD COVER (PERCENT)	04/27/76-06/08/76	0	2	
THRO0006	Yes	00032	CLOUD COVER (PERCENT)	10/26/82-11/21/91	9	33	
THRO0006	Yes	00035	WIND VELOCITY (MILES PER HOUR)	10/26/82-11/21/91	9	33	
THRO0006	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	10/26/82-11/21/91	9	33	
THRO0046	Yes	00049	SURFACE AREA IN SQUARE MILES	10/03/49-09/28/51	1	101	
THRO0006	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	10/03/71-09/27/73	1	37	
THRO0046	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	07/11/69-09/19/73	4	33	
THRO0006	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	22	186	
THRO0040	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/11/76-11/11/76	0	1	
THRO0046	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	29	132	
THRO0048	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/11/76-11/11/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0006	Yes	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	07/25/72-10/11/76	4	11	
THRO0005	No	00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	7	60	
THRO0006	Yes	00065	STAGE, STREAM (FEET)	05/02/83-06/07/85	2	11	
THRO0005	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	05/18/71-12/10/75	4	39	
THRO0006	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-04/11/78	3	29	
THRO0050	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/23/74-10/27/77	3	14	
THRO0005	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/11/68-11/18/69	1	15	
THRO0005	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/18/71-03/18/76	4	23	
THRO0006	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/11/76-03/30/94	17	85	T
THRO0005	No	00080	COLOR (PLATINUM-COBALT UNITS)	03/18/76-03/18/76	0	1	
THRO0046	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	08/23/74-08/23/74	0	1	
THRO0050	No	00080	COLOR (PLATINUM-COBALT UNITS)	01/23/74-11/08/76	2	11	
THRO0005	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/72-06/08/76	4	4	
THRO0050	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/76-03/09/77	1	12	
THRO0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	7	77	A
THRO0006	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	24	601	T,A,S
THRO0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/02/84-04/02/84	0	1	
THRO0012	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0029	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-10/30/86	0	1	
THRO0034	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	0	1	
THRO0038	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0040	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/11/76-11/11/76	0	1	
THRO0042	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	0	1	
THRO0045	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	29	81	T,A,S
THRO0047	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0050	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/79-10/14/92	12	45	
THRO0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0053	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0055	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/77-07/26/77	0	1	
THRO0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/77-07/26/77	0	1	
THRO0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0062	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	0	1	
THRO0065	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2	
THRO0075	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/11/77-08/11/77	0	1	
THRO0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)	02/20/92-04/14/92	0	2	
THRO0005	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/18/76-06/08/76	0	3	
THRO0050	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/79-10/14/92	12	25	
THRO0004	No	00300	OXYGEN, DISSOLVED MG/L	10/04/73-11/08/73	0	2	
THRO0005	No	00300	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	5	49	A
THRO0006	Yes	00300	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	19	583	T,A,S
THRO0046	Yes	00300	OXYGEN, DISSOLVED MG/L	05/10/79-05/10/79	0	1	
THRO0050	No	00300	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	23	131	T,A,S
THRO0006	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	16	203	T,A
THRO0046	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/10/79-05/10/79	0	1	
THRO0004	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/04/73-11/08/73	0	2	
THRO0006	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	04/23/74-04/23/74	0	1	
THRO0050	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	5	61	A
THRO0005	No	00335	COD, .025N K2CR2O7 MG/L	03/18/76-06/08/76	0	3	
THRO0006	Yes	00340	COD, .25N K2CR2O7 MG/L	10/11/76-08/24/82	5	22	
THRO0005	No	00400	PH (STANDARD UNITS)	05/11/68-06/08/76	8	75	
THRO0006	Yes	00400	PH (STANDARD UNITS)	11/04/71-03/18/96	24	568	T,A,S
THRO0009	No	00400	PH (STANDARD UNITS)	04/02/84-04/02/84	0	1	
THRO0033	Yes	00400	PH (STANDARD UNITS)	10/04/67-10/04/67	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0034	Yes	00400	PH (STANDARD UNITS)	11/15/76-11/15/76	0	1	
THRO0035	No	00400	PH (STANDARD UNITS)	09/22/67-09/22/67	0	1	
THRO0039	No	00400	PH (STANDARD UNITS)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00400	PH (STANDARD UNITS)	11/11/76-11/11/76	0	1	
THRO0041	No	00400	PH (STANDARD UNITS)	09/20/67-09/20/67	0	1	
THRO0043	No	00400	PH (STANDARD UNITS)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00400	PH (STANDARD UNITS)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00400	PH (STANDARD UNITS)	10/11/49-05/10/79	29	35	S
THRO0047	No	00400	PH (STANDARD UNITS)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00400	PH (STANDARD UNITS)	11/11/76-11/11/76	0	1	
THRO0050	No	00400	PH (STANDARD UNITS)	03/09/77-10/14/92	15	59	T
THRO0052	Yes	00400	PH (STANDARD UNITS)	10/05/68-10/05/68	0	1	
THRO0054	No	00400	PH (STANDARD UNITS)	10/10/67-10/10/67	0	1	
THRO0055	No	00400	PH (STANDARD UNITS)	07/26/77-07/26/77	0	1	
THRO0056	No	00400	PH (STANDARD UNITS)	09/27/67-06/17/69	1	3	
THRO0057	No	00400	PH (STANDARD UNITS)	07/26/77-07/26/77	0	1	
THRO0058	No	00400	PH (STANDARD UNITS)	09/29/77-08/21/80	2	2	
THRO0062	No	00400	PH (STANDARD UNITS)	11/15/76-11/15/76	0	1	
THRO0063	No	00400	PH (STANDARD UNITS)	09/23/67-09/23/67	0	1	
THRO0072	No	00400	PH (STANDARD UNITS)	06/18/69-06/18/69	0	1	
THRO0073	No	00400	PH (STANDARD UNITS)	10/30/67-10/30/67	0	1	
THRO0074	No	00400	PH (STANDARD UNITS)	06/18/69-06/18/69	0	1	
THRO0075	No	00400	PH (STANDARD UNITS)	08/11/77-08/11/77	0	1	
THRO0076	No	00400	PH (STANDARD UNITS)	11/15/76-11/15/76	0	1	
THRO0004	No	00403	PH, LAB, STANDARD UNITS SU	10/04/73-11/08/73	0	2	
THRO0006	Yes	00403	PH, LAB, STANDARD UNITS SU	11/11/80-08/23/95	14	58	T
THRO0007	No	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0008	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0012	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0014	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0017	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-10/30/86	0	1	
THRO0018	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0021	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0022	Yes	00403	PH, LAB, STANDARD UNITS SU	11/30/88-11/30/88	0	1	
THRO0023	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0026	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0028	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0029	No	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0032	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-10/30/86	0	1	
THRO0038	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0042	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0045	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0049	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0050	No	00403	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	24	144	T,A,S
THRO0051	No	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0053	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0059	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0060	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0061	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0065	Yes	00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	2	
THRO0006	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	11/04/71-09/15/81	9	45	
THRO0033	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	0	1	
THRO0035	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/22/67-09/22/67	0	1	
THRO0039	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	11/11/76-11/11/76	0	1	
THRO0041	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/20/67-09/20/67	0	1	
THRO0043	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	07/11/69-05/10/79	9	10	
THRO0047	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	10/05/68-10/05/68	0	1	
THRO0054	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/10/67-10/10/67	0	1	
THRO0055	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/26/77-07/26/77	0	1	
THRO0056	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/27/67-06/17/69	1	3	
THRO0057	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/26/77-07/26/77	0	1	
THRO0058	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/29/77-09/29/77	0	1	
THRO0062	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	0	1	
THRO0063	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/23/67-09/23/67	0	1	
THRO0072	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/18/69-06/18/69	0	1	
THRO0073	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/30/67-10/30/67	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0074	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/18/69-06/18/69	0	1	
THRO0075	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/11/77-08/11/77	0	1	
THRO0076	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	0	1	
THRO0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	74	A
THRO0006	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/04/71-08/01/90	18	79	T,S
THRO0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0029	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	0	1	
THRO0033	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0035	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/22/67-09/22/67	0	1	
THRO0038	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0039	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	0	1	
THRO0041	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/20/67-09/20/67	0	1	
THRO0042	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0043	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/24/69-07/24/69	0	1	
THRO0045	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/69-05/10/79	9	10	
THRO0047	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0050	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-10/14/92	14	54	
THRO0051	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0052	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/05/68-10/05/68	0	1	
THRO0053	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0054	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/67-10/10/67	0	1	
THRO0055	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	0	1	
THRO0056	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/27/67-06/17/69	1	3	
THRO0057	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	0	1	
THRO0058	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0062	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0063	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/23/67-09/23/67	0	1	
THRO0065	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0072	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	0	1	
THRO0073	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/67-10/30/67	0	1	
THRO0074	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	0	1	
THRO0075	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/77-08/11/77	0	1	
THRO0076	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	10/25/89-03/30/94	4	17	
THRO0006	Yes	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/23/86-04/17/90	3	15	
THRO0006	Yes	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	10/22/85-10/22/85	0	1	
THRO0006	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/04/71-08/05/86	14	40	
THRO0007	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0029	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-10/30/86	0	1	
THRO0033	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0035	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/22/67-09/22/67	0	1	
THRO0038	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0039	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/11/76-11/11/76	0	1	
THRO0041	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/20/67-09/20/67	0	1	
THRO0042	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0043	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	07/24/69-07/24/69	0	1	
THRO0045	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/11/49-05/10/79	29	35	S
THRO0047	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0050	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/12/78-10/14/92	14	54	
THRO0051	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0052	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/05/68-10/05/68	0	1	
THRO0053	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0054	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/10/67-10/10/67	0	1	
THRO0055	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/26/77-07/26/77	0	1	
THRO0056	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/27/67-06/17/69	1	3	
THRO0057	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/26/77-07/26/77	0	1	
THRO0058	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0062	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	0	1	
THRO0063	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/23/67-09/23/67	0	1	
THRO0065	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	2	
THRO0072	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/18/69-06/18/69	0	1	
THRO0073	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/30/67-10/30/67	0	1	
THRO0074	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/18/69-06/18/69	0	1	
THRO0075	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/11/77-08/11/77	0	1	
THRO0076	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/04/71-08/05/86	14	38	
THRO0007	No	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0029	No	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-10/30/86	0	1	
THRO0033	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	0	1	
THRO0035	No	00445	CARBONATE ION (MG/L AS CO3)	09/22/67-09/22/67	0	1	
THRO0038	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0039	No	00445	CARBONATE ION (MG/L AS CO3)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/11/76-11/11/76	0	1	
THRO0041	No	00445	CARBONATE ION (MG/L AS CO3)	09/20/67-09/20/67	0	1	
THRO0042	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0043	No	00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00445	CARBONATE ION (MG/L AS CO3)	07/24/69-07/24/69	0	1	
THRO0045	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00445	CARBONATE ION (MG/L AS CO3)	07/11/69-05/10/79	9	10	
THRO0047	No	00445	CARBONATE ION (MG/L AS CO3)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0050	No	00445	CARBONATE ION (MG/L AS CO3)	04/12/78-10/14/92	14	54	
THRO0051	No	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0052	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/05/68-10/05/68	0	1	
THRO0053	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0054	No	00445	CARBONATE ION (MG/L AS CO3)	10/10/67-10/10/67	0	1	
THRO0055	No	00445	CARBONATE ION (MG/L AS CO3)	07/26/77-07/26/77	0	1	
THRO0056	No	00445	CARBONATE ION (MG/L AS CO3)	09/27/67-06/17/69	1	3	
THRO0057	No	00445	CARBONATE ION (MG/L AS CO3)	07/26/77-07/26/77	0	1	
THRO0058	No	00445	CARBONATE ION (MG/L AS CO3)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0060	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0062	No	00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	0	1	
THRO0063	No	00445	CARBONATE ION (MG/L AS CO3)	09/23/67-09/23/67	0	1	
THRO0065	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2	
THRO0072	No	00445	CARBONATE ION (MG/L AS CO3)	06/18/69-06/18/69	0	1	
THRO0073	No	00445	CARBONATE ION (MG/L AS CO3)	10/30/67-10/30/67	0	1	
THRO0074	No	00445	CARBONATE ION (MG/L AS CO3)	06/18/69-06/18/69	0	1	
THRO0075	No	00445	CARBONATE ION (MG/L AS CO3)	08/11/77-08/11/77	0	1	
THRO0076	No	00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	10/23/86-04/17/90	3	15	
THRO0006	Yes	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/23/86-04/17/90	3	15	
THRO0006	Yes	00451	BICARBONATE,FIXED ENDPOINT TITR. (HCO3) LAB MG/L	04/17/90-04/17/90	0	1	
THRO0006	Yes	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	04/11/89-03/30/94	4	20	
THRO0006	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	04/11/89-03/30/94	4	20	
THRO0005	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/11/68-12/04/74	6	28	
THRO0064	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/04/94-10/04/94	0	1	
THRO0068	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/27/94-10/04/94	0	2	
THRO0069	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/27/94-06/27/94	0	1	
THRO0006	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	09/11/74-09/12/79	5	4	
THRO0006	Yes	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	08/09/78-09/12/79	1	3	
THRO0006	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-09/15/81	7	55	
THRO0046	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	05/10/79-05/10/79	0	1	
THRO0006	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	09/12/79-09/15/81	2	18	
THRO0006	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/78-10/22/85	7	30	
THRO0046	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/10/79-05/10/79	0	1	
THRO0006	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/10/79-09/15/81	1	17	
THRO0006	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/79-03/30/94	14	65	T
THRO0001	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/22/74-08/22/75	0	9	
THRO0005	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/18/71-06/08/76	5	23	
THRO0006	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/12/77-10/05/92	14	60	T
THRO0046	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/79-05/10/79	0	1	
THRO0050	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/76-10/14/92	16	52	
THRO0064	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/04/94-10/04/94	0	1	
THRO0068	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/94-10/04/94	0	2	
THRO0069	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/94-06/27/94	0	1	
THRO0006	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/22/85-03/30/94	8	31	
THRO0001	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/22/74-10/20/74	0	2	
THRO0006	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/11/76-10/05/92	15	30	
THRO0006	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/04/71-10/22/85	13	7	
THRO0007	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0029	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-10/30/86	0	1	
THRO0034	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	0	1	
THRO0038	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0040	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/11/76-11/11/76	0	1	
THRO0042	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0043	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	0	1	
THRO0045	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/19/72-11/01/76	4	4	
THRO0047	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0050	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/17/80-07/07/88	8	29	
THRO0051	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0053	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0055	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/26/77-07/26/77	0	1	
THRO0057	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/26/77-07/26/77	0	1	
THRO0058	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0062	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	0	1	
THRO0065	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	2	
THRO0075	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/11/77-08/11/77	0	1	
THRO0076	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	0	1	
THRO0001	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/22/74-10/20/74	0	2	
THRO0005	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/11/68-12/10/75	7	65	
THRO0006	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/11/76-09/09/80	3	20	
THRO0050	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/09/77-10/18/79	2	17	
THRO0006	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/12/77-08/28/91	13	35	
THRO0006	Yes	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	04/11/78-09/15/81	3	29	
THRO0001	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/22/74-08/22/75	0	8	
THRO0005	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/27/76-06/08/76	0	2	
THRO0006	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-03/30/94	19	102	T,S
THRO0046	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/79-05/10/79	0	1	
THRO0068	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/94-06/27/94	0	1	
THRO0069	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/94-06/27/94	0	1	
THRO0001	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/22/74-08/22/75	0	9	
THRO0005	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/08/71-12/07/71	0	10	
THRO0006	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-10/05/92	18	68	T,S
THRO0046	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/10/79-05/10/79	0	1	
THRO0050	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/16/90-10/14/92	2	10	
THRO0064	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/94-10/04/94	0	1	
THRO0068	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/94-10/04/94	0	2	
THRO0069	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/94-06/27/94	0	1	
THRO0006	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/12/79-03/30/94	14	66	T
THRO0046	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/23/74-08/23/74	0	1	
THRO0050	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/88-10/18/89	1	4	
THRO0004	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/04/73-11/08/73	0	2	
THRO0005	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/18/71-12/10/75	4	22	
THRO0006	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/16/79-04/16/79	0	1	
THRO0046	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/10/79-05/10/79	0	1	
THRO0050	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	4	54	A
THRO0005	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/14/69-12/12/73	4	23	
THRO0006	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/04/71-02/18/83	11	13	
THRO0034	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	0	1	
THRO0040	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/11/76-11/11/76	0	1	
THRO0043	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	0	1	
THRO0046	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/19/72-11/01/76	4	4	
THRO0048	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/11/76-11/11/76	0	1	
THRO0062	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	0	1	
THRO0076	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	0	1	
THRO0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/22/74-08/22/75	0	8	
THRO0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/68-06/08/76	8	15	
THRO0006	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/74-03/30/94	19	106	T,S
THRO0046	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/79-05/10/79	0	1	
THRO0050	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/76-10/14/92	16	69	T
THRO0005	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/14/69-09/15/69	0	6	
THRO0006	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/77-03/30/94	16	82	T
THRO0046	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/23/74-05/10/79	4	2	
THRO0050	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/80-10/18/89	9	29	
THRO0010	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/83-08/26/83	0	1	
THRO0050	No	00669	PHOSPHORUS, TOTAL HYDROLYZABLE (MG/L AS P)	02/23/76-08/17/76	0	6	
THRO0001	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/22/74-08/22/75	0	9	
THRO0005	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/72-12/12/73	1	18	
THRO0006	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/04/71-03/30/94	22	51	S
THRO0046	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/19/72-05/22/74	2	2	
THRO0050	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/17/80-10/18/89	9	32	
THRO0006	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/23/74-09/15/81	7	27	
THRO0006	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/12/77-08/11/81	3	21	
THRO0046	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/10/79-05/10/79	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0010	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0011	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0013	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0015	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0016	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0019	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0020	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0024	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0025	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0030	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0031	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	0	1	
THRO0066	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/26/83-08/26/83	0	1	
THRO0067	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/26/83-08/26/83	0	1	
THRO0006	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	10/12/77-05/12/81	3	16	
THRO0046	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/10/79-05/10/79	0	1	
THRO0046	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/23/74-08/23/74	0	1	
THRO0050	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/08/76-10/24/78	1	8	
THRO0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/04/73-11/08/73	0	2	
THRO0005	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	74	A
THRO0006	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/04/71-04/14/83	11	73	
THRO0007	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0029	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	0	1	
THRO0033	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0035	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/22/67-09/22/67	0	1	
THRO0038	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0039	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	0	1	
THRO0041	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/20/67-09/20/67	0	1	
THRO0042	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0043	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/69-07/24/69	0	1	
THRO0045	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/11/49-05/10/79	29	27	
THRO0047	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0050	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	24	158	T,A,S
THRO0051	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0052	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/05/68-10/05/68	0	1	
THRO0053	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0054	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/67-10/10/67	0	1	
THRO0055	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	0	1	
THRO0056	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/27/67-06/17/69	1	3	
THRO0057	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	0	1	
THRO0058	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0062	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0063	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/23/67-09/23/67	0	1	
THRO0065	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	2	
THRO0072	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	0	1	
THRO0073	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/67-10/30/67	0	1	
THRO0074	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	0	1	
THRO0075	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/11/77-08/11/77	0	1	
THRO0076	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0005	No	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	04/14/69-11/18/69	0	8	
THRO0006	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/04/71-03/11/81	9	59	
THRO0033	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0035	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/22/67-09/22/67	0	1	
THRO0039	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/11/76-11/11/76	0	1	
THRO0041	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/20/67-09/20/67	0	1	
THRO0043	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/11/49-05/10/79	29	27	
THRO0047	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/05/68-10/05/68	0	1	
THRO0054	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/67-10/10/67	0	1	
THRO0055	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/26/77-07/26/77	0	1	
THRO0056	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/27/67-06/17/69	1	3	
THRO0057	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/26/77-07/26/77	0	1	
THRO0058	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/29/77-08/21/80	2	2	
THRO0062	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0063	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/23/67-09/23/67	0	1	
THRO0072	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/18/69-06/18/69	0	1	
THRO0073	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/30/67-10/30/67	0	1	
THRO0074	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/18/69-06/18/69	0	1	
THRO0075	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/11/77-08/11/77	0	1	
THRO0076	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00903	HARDNESS,NON-CARBONATE,FIXED ENDPT. TIT. LAB MG/L	10/13/80-04/14/83	2	19	
THRO0005	No	00910	CALCIUM (MG/L AS CACO3)	11/05/68-12/10/75	7	23	
THRO0006	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/04/71-08/23/95	23	115	T,S
THRO0033	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	0	1	
THRO0035	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/22/67-09/22/67	0	1	
THRO0039	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/11/76-11/11/76	0	1	
THRO0041	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/20/67-09/20/67	0	1	
THRO0043	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/11/49-05/10/79	29	27	
THRO0047	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/05/68-10/05/68	0	1	
THRO0054	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/67-10/10/67	0	1	
THRO0055	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/77-07/26/77	0	1	
THRO0056	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/27/67-06/17/69	1	3	
THRO0057	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/77-07/26/77	0	1	
THRO0058	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/77-08/21/80	2	2	
THRO0062	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	0	1	
THRO0063	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/23/67-09/23/67	0	1	
THRO0072	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/18/69-06/18/69	0	1	
THRO0073	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/67-10/30/67	0	1	
THRO0074	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/18/69-06/18/69	0	1	
THRO0075	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/11/77-08/11/77	0	1	
THRO0076	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	0	1	
THRO0007	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0029	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-10/30/86	0	1	
THRO0038	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0042	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0045	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0049	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0050	No	00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/77-10/14/92	15	62	T
THRO0051	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0053	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0059	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0065	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2	
THRO0010	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/26/83-08/26/83	0	1	
THRO0005	No	00920	MAGNESIUM (MG/L AS CACO3)	05/18/71-12/10/75	4	22	
THRO0010	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/04/71-08/23/95	23	115	T,S
THRO0033	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	0	1	
THRO0035	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/22/67-09/22/67	0	1	
THRO0039	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/11/76-11/11/76	0	1	
THRO0041	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/20/67-09/20/67	0	1	
THRO0043	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/11/49-05/10/79	29	27	
THRO0047	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/05/68-10/05/68	0	1	
THRO0054	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/67-10/10/67	0	1	
THRO0055	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/77-07/26/77	0	1	
THRO0056	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/27/67-06/17/69	1	3	
THRO0057	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/77-07/26/77	0	1	
THRO0058	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/77-08/21/80	2	2	
THRO0062	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	0	1	
THRO0063	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/23/67-09/23/67	0	1	
THRO0072	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/18/69-06/18/69	0	1	
THRO0073	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/67-10/30/67	0	1	
THRO0074	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/18/69-06/18/69	0	1	
THRO0075	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/11/77-08/11/77	0	1	
THRO0076	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	0	1	
THRO0007	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0029	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-10/30/86	0	1	
THRO0038	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0042	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0045	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0049	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0050	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/77-10/14/92	15	62	T
THRO0051	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0053	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0059	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0065	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	2	
THRO0007	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0029	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-10/30/86	0	1	
THRO0038	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0042	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0045	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0049	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0050	No	00929	SODIUM, TOTAL (MG/L AS NA)	03/09/77-10/14/92	15	62	T
THRO0051	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0053	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0059	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0065	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2	
THRO0005	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/18/71-12/10/75	4	22	
THRO0006	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/04/71-08/23/95	23	115	T,S
THRO0033	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	0	1	
THRO0035	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/22/67-09/22/67	0	1	
THRO0039	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/11/76-11/11/76	0	1	
THRO0041	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/20/67-09/20/67	0	1	
THRO0043	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/27/51-05/10/79	28	18	
THRO0047	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/05/68-10/05/68	0	1	
THRO0054	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/67-10/10/67	0	1	
THRO0055	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/77-07/26/77	0	1	
THRO0056	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/27/67-06/17/69	1	3	
THRO0057	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/77-07/26/77	0	1	
THRO0058	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/29/77-08/21/80	2	2	
THRO0062	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	0	1	
THRO0063	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/23/67-09/23/67	0	1	
THRO0072	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/18/69-06/18/69	0	1	
THRO0073	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/67-10/30/67	0	1	
THRO0074	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/18/69-06/18/69	0	1	
THRO0075	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/11/77-08/11/77	0	1	
THRO0076	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00931	SODIUM ADSORPTION RATIO	11/04/71-04/14/83	11	73	
THRO0007	No	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0008	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0012	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0014	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0017	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-10/30/86	0	1	
THRO0018	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0021	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0022	Yes	00931	SODIUM ADSORPTION RATIO	11/30/88-11/30/88	0	1	
THRO0023	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0026	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0028	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0029	No	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0032	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-10/30/86	0	1	
THRO0033	Yes	00931	SODIUM ADSORPTION RATIO	10/04/67-10/04/67	0	1	
THRO0034	Yes	00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	0	1	
THRO0035	No	00931	SODIUM ADSORPTION RATIO	09/22/67-09/22/67	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0038	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0039	No	00931	SODIUM ADSORPTION RATIO	09/01/67-09/01/67	0	1	
THRO0040	Yes	00931	SODIUM ADSORPTION RATIO	11/11/76-11/11/76	0	1	
THRO0041	No	00931	SODIUM ADSORPTION RATIO	09/20/67-09/20/67	0	1	
THRO0042	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0043	No	00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	0	1	
THRO0044	Yes	00931	SODIUM ADSORPTION RATIO	07/24/69-07/24/69	0	1	
THRO0045	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0046	Yes	00931	SODIUM ADSORPTION RATIO	07/11/69-05/10/79	9	10	
THRO0047	No	00931	SODIUM ADSORPTION RATIO	11/17/76-11/17/76	0	1	
THRO0048	Yes	00931	SODIUM ADSORPTION RATIO	11/11/76-11/11/76	0	1	
THRO0049	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0050	No	00931	SODIUM ADSORPTION RATIO	04/08/79-10/14/92	13	45	
THRO0051	No	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0052	Yes	00931	SODIUM ADSORPTION RATIO	10/05/68-10/05/68	0	1	
THRO0053	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0054	No	00931	SODIUM ADSORPTION RATIO	10/10/67-10/10/67	0	1	
THRO0055	No	00931	SODIUM ADSORPTION RATIO	07/26/77-07/26/77	0	1	
THRO0056	No	00931	SODIUM ADSORPTION RATIO	09/27/67-06/17/69	1	3	
THRO0057	No	00931	SODIUM ADSORPTION RATIO	07/26/77-07/26/77	0	1	
THRO0058	No	00931	SODIUM ADSORPTION RATIO	09/29/77-08/21/80	2	2	
THRO0059	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0060	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0061	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0062	No	00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	0	1	
THRO0063	No	00931	SODIUM ADSORPTION RATIO	09/23/67-09/23/67	0	1	
THRO0065	Yes	00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	2	
THRO0072	No	00931	SODIUM ADSORPTION RATIO	06/18/69-06/18/69	0	1	
THRO0073	No	00931	SODIUM ADSORPTION RATIO	10/30/67-10/30/67	0	1	
THRO0074	No	00931	SODIUM ADSORPTION RATIO	06/18/69-06/18/69	0	1	
THRO0075	No	00931	SODIUM ADSORPTION RATIO	08/11/77-08/11/77	0	1	
THRO0076	No	00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	0	1	
THRO0004	No	00932	SODIUM, PERCENT	10/04/73-11/08/73	0	2	
THRO0006	Yes	00932	SODIUM, PERCENT	11/04/71-04/14/83	11	73	
THRO0007	No	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0008	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0012	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0014	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0017	Yes	00932	SODIUM, PERCENT	10/30/86-10/30/86	0	1	
THRO0018	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0021	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0022	Yes	00932	SODIUM, PERCENT	11/30/88-11/30/88	0	1	
THRO0023	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0026	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0028	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0029	No	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0032	Yes	00932	SODIUM, PERCENT	10/30/86-10/30/86	0	1	
THRO0033	Yes	00932	SODIUM, PERCENT	10/04/67-10/04/67	0	1	
THRO0034	Yes	00932	SODIUM, PERCENT	11/15/76-11/15/76	0	1	
THRO0035	No	00932	SODIUM, PERCENT	09/22/67-09/22/67	0	1	
THRO0038	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0039	No	00932	SODIUM, PERCENT	09/01/67-09/01/67	0	1	
THRO0040	Yes	00932	SODIUM, PERCENT	11/11/76-11/11/76	0	1	
THRO0041	No	00932	SODIUM, PERCENT	09/20/67-09/20/67	0	1	
THRO0042	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0043	No	00932	SODIUM, PERCENT	11/15/76-11/15/76	0	1	
THRO0044	Yes	00932	SODIUM, PERCENT	07/24/69-07/24/69	0	1	
THRO0045	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0046	Yes	00932	SODIUM, PERCENT	10/11/49-05/10/79	29	35	S
THRO0047	No	00932	SODIUM, PERCENT	11/17/76-11/17/76	0	1	
THRO0048	Yes	00932	SODIUM, PERCENT	11/11/76-11/11/76	0	1	
THRO0049	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0050	No	00932	SODIUM, PERCENT	06/26/68-10/14/92	24	157	T,A,S
THRO0051	No	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0052	Yes	00932	SODIUM, PERCENT	10/05/68-10/05/68	0	1	
THRO0053	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0054	No	00932	SODIUM, PERCENT	10/10/67-10/10/67	0	1	
THRO0055	No	00932	SODIUM, PERCENT	07/26/77-07/26/77	0	1	
THRO0056	No	00932	SODIUM, PERCENT	09/27/67-06/17/69	1	3	
THRO0057	No	00932	SODIUM, PERCENT	07/26/77-07/26/77	0	1	
THRO0058	No	00932	SODIUM, PERCENT	09/29/77-08/21/80	2	2	
THRO0059	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0060	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0061	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0062	No	00932	SODIUM, PERCENT	11/15/76-11/15/76	0	1	
THRO0063	No	00932	SODIUM, PERCENT	09/23/67-09/23/67	0	1	
THRO0065	Yes	00932	SODIUM, PERCENT	10/30/86-11/30/88	2	2	
THRO0072	No	00932	SODIUM, PERCENT	06/18/69-06/18/69	0	1	
THRO0073	No	00932	SODIUM, PERCENT	10/30/67-10/30/67	0	1	
THRO0074	No	00932	SODIUM, PERCENT	06/18/69-06/18/69	0	1	
THRO0075	No	00932	SODIUM, PERCENT	08/11/77-08/11/77	0	1	
THRO0076	No	00932	SODIUM, PERCENT	11/15/76-11/15/76	0	1	
THRO0006	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/16/79-09/09/80	1	10	
THRO0046	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/11/49-03/23/51	1	17	
THRO0010	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/26/83-08/26/83	0	1	
THRO0005	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/18/71-12/10/75	4	22	
THRO0006	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/04/71-08/23/95	23	115	T,S
THRO0033	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	0	1	
THRO0035	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/22/67-09/22/67	0	1	
THRO0039	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/11/76-11/11/76	0	1	
THRO0041	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/20/67-09/20/67	0	1	
THRO0043	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/11/69-05/10/79	9	10	
THRO0047	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/11/76-11/11/76	0	1	
THRO0050	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/12/78-04/08/79	0	8	
THRO0052	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/05/68-10/05/68	0	1	
THRO0054	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/10/67-10/10/67	0	1	
THRO0055	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/77-07/26/77	0	1	
THRO0056	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/27/67-06/17/69	1	3	
THRO0057	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/77-07/26/77	0	1	
THRO0058	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/29/77-08/21/80	2	2	
THRO0062	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	0	1	
THRO0063	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/23/67-09/23/67	0	1	
THRO0072	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/18/69-06/18/69	0	1	
THRO0073	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/67-10/30/67	0	1	
THRO0074	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/18/69-06/18/69	0	1	
THRO0075	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/11/77-08/11/77	0	1	
THRO0076	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	0	1	
THRO0007	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0029	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-10/30/86	0	1	
THRO0038	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0042	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0045	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0049	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0050	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/08/79-10/14/92	13	47	
THRO0051	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0053	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0059	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0065	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2	
THRO0010	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/26/83-08/26/83	0	1	
THRO0004	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/73-11/08/73	0	2	
THRO0005	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	7	73	A
THRO0006	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/04/71-08/23/95	23	115	T,S
THRO0007	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0008	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0012	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0014	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0017	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-10/30/86	0	1	
THRO0018	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0021	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0022	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/30/88-11/30/88	0	1	
THRO0023	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0026	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0028	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0029	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0032	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-10/30/86	0	1	
THRO0033	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/67-10/04/67	0	1	
THRO0034	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	0	1	
THRO0035	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/22/67-09/22/67	0	1	
THRO0038	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0039	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/67-09/01/67	0	1	
THRO0040	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/11/76-11/11/76	0	1	
THRO0041	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/20/67-09/20/67	0	1	
THRO0042	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0043	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	0	1	
THRO0044	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/69-07/24/69	0	1	
THRO0045	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0046	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/11/49-05/10/79	29	35	S
THRO0047	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/17/76-11/17/76	0	1	
THRO0048	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/11/76-11/11/76	0	1	
THRO0049	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0050	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	24	158	T,A,S
THRO0051	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0052	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/05/68-10/05/68	0	1	
THRO0053	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0054	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/67-10/10/67	0	1	
THRO0055	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/77-07/26/77	0	1	
THRO0056	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/27/67-06/17/69	1	3	
THRO0057	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/77-07/26/77	0	1	
THRO0058	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/29/77-08/21/80	2	2	
THRO0059	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0060	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0061	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0062	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	0	1	
THRO0063	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/23/67-09/23/67	0	1	
THRO0065	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2	
THRO0072	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/69-06/18/69	0	1	
THRO0073	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/67-10/30/67	0	1	
THRO0074	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/69-06/18/69	0	1	
THRO0075	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/11/77-08/11/77	0	1	
THRO0076	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	0	1	
THRO0004	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/73-11/08/73	0	2	
THRO0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	7	72	A
THRO0006	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/04/71-08/23/95	23	115	T,S
THRO0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0008	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0029	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-10/30/86	0	1	
THRO0033	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	0	1	
THRO0035	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/22/67-09/22/67	0	1	
THRO0038	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0039	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/11/76-11/11/76	0	1	
THRO0041	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/20/67-09/20/67	0	1	
THRO0042	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0043	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/69-07/24/69	0	1	
THRO0045	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0046	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/11/49-05/10/79	29	35	S
THRO0047	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/11/76-11/11/76	0	1	
THRO0049	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0050	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	24	157	T,A,S
THRO0051	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0052	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/05/68-10/05/68	0	1	
THRO0053	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0054	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/67-10/10/67	0	1	
THRO0055	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/77-07/26/77	0	1	
THRO0056	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/27/67-06/17/69	1	3	
THRO0057	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/77-07/26/77	0	1	
THRO0058	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/29/77-08/21/80	2	2	
THRO0059	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0062	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	0	1	
THRO0063	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/23/67-09/23/67	0	1	
THRO0065	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2	
THRO0072	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/69-06/18/69	0	1	
THRO0073	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/67-10/30/67	0	1	
THRO0074	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/69-06/18/69	0	1	
THRO0075	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/11/77-08/11/77	0	1	
THRO0076	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/04/71-08/23/95	23	115	T,S
THRO0033	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	0	1	
THRO0039	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/11/76-11/11/76	0	1	
THRO0041	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/20/67-09/20/67	0	1	
THRO0043	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/11/49-05/10/79	29	27	
THRO0047	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/05/68-10/05/68	0	1	
THRO0054	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/67-10/10/67	0	1	
THRO0055	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/26/77-07/26/77	0	1	
THRO0056	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/27/67-06/17/69	1	3	
THRO0057	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/26/77-07/26/77	0	1	
THRO0058	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/77-08/21/80	2	2	
THRO0062	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	0	1	
THRO0063	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/23/67-09/23/67	0	1	
THRO0072	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/18/69-06/18/69	0	1	
THRO0073	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/67-10/30/67	0	1	
THRO0074	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/18/69-06/18/69	0	1	
THRO0075	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/11/77-08/11/77	0	1	
THRO0076	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	0	1	
THRO0006	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/11/76-09/09/80	3	21	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0007	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0008	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0012	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0014	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0017	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-10/30/86	0	1	
THRO0018	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0021	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0022	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	11/30/88-11/30/88	0	1	
THRO0023	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0026	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0028	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0029	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0032	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-10/30/86	0	1	
THRO0038	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0042	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0045	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0049	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0051	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0053	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0059	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0060	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0061	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0065	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2	
THRO0006	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/04/71-03/30/94	22	113	T,S
THRO0033	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/04/67-10/04/67	0	1	
THRO0034	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	0	1	
THRO0035	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/22/67-09/22/67	0	1	
THRO0039	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/67-09/01/67	0	1	
THRO0040	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/11/76-11/11/76	0	1	
THRO0041	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/20/67-09/20/67	0	1	
THRO0043	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	0	1	
THRO0044	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/69-07/24/69	0	1	
THRO0046	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/11/49-05/10/79	29	27	
THRO0047	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/17/76-11/17/76	0	1	
THRO0048	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/11/76-11/11/76	0	1	
THRO0052	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/05/68-10/05/68	0	1	
THRO0054	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/67-10/10/67	0	1	
THRO0055	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/77-07/26/77	0	1	
THRO0056	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/27/67-06/17/69	1	3	
THRO0057	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/77-07/26/77	0	1	
THRO0058	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/77-08/21/80	2	2	
THRO0062	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	0	1	
THRO0063	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/23/67-09/23/67	0	1	
THRO0072	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/18/69-06/18/69	0	1	
THRO0073	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/67-10/30/67	0	1	
THRO0074	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/18/69-06/18/69	0	1	
THRO0075	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/77-08/11/77	0	1	
THRO0076	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	0	1	
THRO0006	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/74-08/23/95	21	58	T,S
THRO0046	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/23/74-08/23/74	0	1	
THRO0050	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/21/76-10/24/78	2	12	
THRO0006	Yes	01001	ARSENIC, SUSPENDED (UG/L AS AS)	04/23/74-08/24/82	8	20	
THRO0006	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/23/74-08/24/82	8	38	
THRO0050	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/08/79-10/14/92	13	30	
THRO0010	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/08/77-03/30/94	16	57	T
THRO0046	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/23/74-08/23/74	0	1	
THRO0050	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	01/21/76-10/24/78	2	12	
THRO0006	Yes	01006	BARIUM, SUSPENDED (UG/L AS BA)	11/08/77-08/24/82	4	14	
THRO0006	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	10/11/76-08/24/82	5	30	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0050	No	01007	BARIUM, TOTAL (UG/L AS BA)	04/08/79-10/14/92	13	30	
THRO0010	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/26/82-08/28/91	8	34	
THRO0046	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/23/74-08/23/74	0	1	
THRO0005	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/18/76-06/08/76	0	3	
THRO0006	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/11/76-09/09/80	3	20	
THRO0010	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/04/71-07/25/72	0	6	
THRO0034	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	0	1	
THRO0040	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/11/76-11/11/76	0	1	
THRO0043	No	01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	0	1	
THRO0046	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/27/49-05/10/79	29	14	
THRO0047	No	01020	BORON, DISSOLVED (UG/L AS B)	11/17/76-11/17/76	0	1	
THRO0048	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/11/76-11/11/76	0	1	
THRO0055	No	01020	BORON, DISSOLVED (UG/L AS B)	07/26/77-07/26/77	0	1	
THRO0057	No	01020	BORON, DISSOLVED (UG/L AS B)	07/26/77-07/26/77	0	1	
THRO0058	No	01020	BORON, DISSOLVED (UG/L AS B)	09/29/77-08/21/80	2	2	
THRO0062	No	01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	0	1	
THRO0075	No	01020	BORON, DISSOLVED (UG/L AS B)	08/11/77-08/11/77	0	1	
THRO0076	No	01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	0	1	
THRO0006	Yes	01022	BORON, TOTAL (UG/L AS B)	10/11/76-09/09/80	3	21	
THRO0006	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/74-08/28/91	17	56	T
THRO0046	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/23/74-08/23/74	0	1	
THRO0050	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/21/76-10/27/77	1	6	
THRO0006	Yes	01026	CADMIUM, SUSPENDED (UG/L AS CD)	04/23/74-05/12/81	7	15	
THRO0006	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	04/23/74-08/24/82	8	34	
THRO0050	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/78-10/14/92	14	35	
THRO0010	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/74-08/28/91	17	55	
THRO0046	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/23/74-08/23/74	0	1	
THRO0050	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/76-10/27/77	1	7	
THRO0006	Yes	01031	CHROMIUM, SUSPEND (UG/L AS CR)	04/23/74-08/11/81	7	18	
THRO0006	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/23/74-08/24/82	8	38	
THRO0050	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/78-10/14/92	14	35	
THRO0006	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/23/74-03/30/94	19	65	T,S
THRO0046	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	08/23/74-08/23/74	0	1	

[1]T=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]
THRO0006	Yes	01036	COBALT, SUSPENDED (UG/L AS CO)	04/23/74-03/29/82	7	17	
THRO0006	Yes	01037	COBALT, TOTAL (UG/L AS CO)	04/23/74-08/24/82	8	38	
THRO0010	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/23/74-08/28/91	17	56	T
THRO0046	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	08/23/74-08/23/74	0	1	
THRO0050	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/21/76-10/27/77	1	7	
THRO0006	Yes	01041	COPPER, SUSPENDED (UG/L AS CU)	04/23/74-08/24/82	8	22	
THRO0006	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/23/74-08/24/82	8	38	
THRO0050	No	01042	COPPER, TOTAL (UG/L AS CU)	04/12/78-10/14/92	14	35	
THRO0010	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01044	IRON, SUSPENDED (UG/L AS FE)	08/09/78-08/24/82	4	12	
THRO0006	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/23/74-08/24/82	8	38	
THRO0046	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/11/49-03/23/51	1	17	
THRO0050	No	01045	IRON, TOTAL (UG/L AS FE)	07/15/74-08/06/74	0	2	
THRO0006	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/04/71-08/23/95	23	73	T,S
THRO0034	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	0	1	
THRO0040	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/11/76-11/11/76	0	1	
THRO0043	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	0	1	
THRO0046	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/19/72-05/10/79	7	6	
THRO0047	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/17/76-11/17/76	0	1	
THRO0048	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/11/76-11/11/76	0	1	
THRO0055	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/26/77-07/26/77	0	1	
THRO0057	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/26/77-07/26/77	0	1	
THRO0058	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/29/77-08/21/80	2	2	
THRO0062	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	0	1	
THRO0075	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/11/77-08/11/77	0	1	
THRO0076	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	0	1	
THRO0006	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/23/74-08/23/95	21	58	T,S
THRO0046	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	08/23/74-08/23/74	0	1	
THRO0050	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/21/76-10/24/78	2	11	
THRO0006	Yes	01050	LEAD, SUSPENDED (UG/L AS PB)	04/23/74-08/24/82	8	19	
THRO0006	Yes	01051	LEAD, TOTAL (UG/L AS PB)	04/23/74-08/24/82	8	30	
THRO0050	No	01051	LEAD, TOTAL (UG/L AS PB)	04/08/79-10/14/92	13	30	
THRO0010	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/74-08/24/82	8	22	
THRO0006	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/74-08/24/82	8	37	

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

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From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0007	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0008	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0012	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0014	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0017	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-10/30/86	0	1	
THRO0018	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0021	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0022	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	11/30/88-11/30/88	0	1	
THRO0023	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0026	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0028	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0029	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0032	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-10/30/86	0	1	
THRO0038	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0042	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0045	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0049	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0050	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/82-10/14/92	10	37	
THRO0051	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0053	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0059	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0060	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0061	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0065	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	2	
THRO0006	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/04/71-08/23/95	23	72	T,S
THRO0034	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	0	1	
THRO0040	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/11/76-11/11/76	0	1	
THRO0043	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	0	1	
THRO0046	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/19/72-11/01/76	4	5	
THRO0047	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/17/76-11/17/76	0	1	
THRO0048	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/11/76-11/11/76	0	1	
THRO0050	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/74-08/06/74	0	2	
THRO0055	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/26/77-07/26/77	0	1	
THRO0057	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/26/77-07/26/77	0	1	
THRO0058	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/29/77-08/21/80	2	2	
THRO0062	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	0	1	
THRO0075	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/11/77-08/11/77	0	1	
THRO0076	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	0	1	
THRO0006	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/26/82-08/23/95	12	45	
THRO0046	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/23/74-08/23/74	0	1	
THRO0005	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	03/18/76-06/08/76	0	3	
THRO0006	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/11/76-09/09/80	3	21	
THRO0010	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/13/79-03/30/94	14	52	
THRO0046	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/23/74-08/23/74	0	1	
THRO0006	Yes	01066	NICKEL, SUSPENDED (UG/L AS NI)	11/13/79-08/24/82	2	9	
THRO0006	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/11/76-08/24/82	5	28	
THRO0010	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0006	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	11/08/77-03/30/94	16	57	T
THRO0046	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	08/23/74-08/23/74	0	1	
THRO0006	Yes	01076	SILVER, SUSPENDED (UG/L AS AG)	11/08/77-08/11/81	3	10	
THRO0006	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/11/76-08/24/82	5	31	
THRO0010	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/26/82-08/23/95	12	45	
THRO0046	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/23/74-08/23/74	0	1	
THRO0010	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/26/82-03/30/94	11	43	
THRO0005	No	01087	VANADIUM, TOTAL (UG/L AS V)	03/18/76-06/08/76	0	3	
THRO0010	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/74-08/28/91	17	56	T
THRO0046	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/23/74-08/23/74	0	1	
THRO0050	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/76-10/24/78	2	12	
THRO0006	Yes	01091	ZINC, SUSPENDED (UG/L ZN)	04/23/74-08/24/82	8	19	
THRO0006	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/23/74-08/24/82	8	38	
THRO0050	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/08/79-10/14/92	13	30	
THRO0010	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/83-08/26/83	0	1	
THRO0005	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/18/76-06/08/76	0	2	
THRO0006	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/11/76-09/09/80	3	20	
THRO0006	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/26/82-03/30/94	11	43	
THRO0046	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/23/74-08/23/74	0	1	
THRO0010	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0013	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/26/83-08/26/83	0	1	
THRO0006	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/26/82-08/23/95	12	45	
THRO0046	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/23/74-08/23/74	0	1	
THRO0005	No	01132	LITHIUM, TOTAL (UG/L AS LI)	03/18/76-06/08/76	0	3	
THRO0006	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	10/11/76-09/09/80	3	21	
THRO0006	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/74-08/23/95	21	67	T,S
THRO0046	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/23/74-08/23/74	0	1	
THRO0050	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	01/21/76-10/24/78	2	12	
THRO0006	Yes	01146	SELENIUM, SUSPENDED (UG/L AS SE)	04/23/74-08/24/82	8	21	
THRO0006	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	04/23/74-08/24/82	8	38	
THRO0050	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/08/79-10/14/92	13	30	
THRO0010	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/83-08/26/83	0	1	
THRO0010	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/26/83-08/26/83	0	1	
THRO0010	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0011	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0013	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0015	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0016	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0019	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0020	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0024	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0025	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0030	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0031	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	0	1	
THRO0066	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/83-08/26/83	0	1	
THRO0067	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/83-08/26/83	0	1	
THRO0009	No	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	04/02/84-04/02/84	0	1	
THRO0009	No	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	04/02/84-04/02/84	0	1	
THRO0009	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	04/02/84-04/02/84	0	1	
THRO0009	No	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	04/02/84-04/02/84	0	1	
THRO0009	No	09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	04/02/84-04/02/84	0	1	
THRO0009	No	22703	URANIUM, NATURAL, DISSOLVED	04/02/84-04/02/84	0	1	
THRO0010	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0011	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0013	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0015	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0016	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0019	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0020	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0024	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0025	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0030	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0031	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	0	1	
THRO0066	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/26/83-08/26/83	0	1	
THRO0067	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/26/83-08/26/83	0	1	
THRO0064	Yes	30191	DINOSEB, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	0	1	
THRO0068	Yes	30191	DINOSEB, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	0	1	
THRO0064	Yes	30192	MCPA, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	0	1	
THRO0068	Yes	30192	MCPA, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	0	1	
THRO0003	No	30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	10/04/84-10/04/84	0	3	
THRO0003	No	30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	10/04/84-10/04/84	0	3	
THRO0004	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/04/73-11/08/73	0	2	
THRO0006	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	04/23/74-04/23/74	0	1	
THRO0050	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	8	95	A
THRO0050	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/14/77-07/08/92	15	19	
THRO0050	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/27/80-10/06/83	2	3	
THRO0004	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/04/73-11/08/73	0	2	
THRO0005	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/21/74-07/24/75	1	7	
THRO0006	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/23/74-09/13/76	2	14	
THRO0050	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	21	102	A,S
THRO0006	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	17	73	T
THRO0006	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	17	72	T
THRO0006	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/23/74-10/11/76	2	15	
THRO0050	No	34351	ENDOSULFAN SULFATE TOTWUG/L	04/18/91-07/08/92	1	3	
THRO0050	No	34356	ENDOSULFAN, BETA TOTWUG/L	04/18/91-07/08/92	1	3	
THRO0050	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	04/18/91-07/08/92	1	3	
THRO0003	No	34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	34685	ENDRIN WET WGTTISMG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	10/04/84-10/04/84	0	3	
THRO0064	Yes	38710	BENTAZON WATER, TOTUG/L	10/04/94-10/04/94	0	1	
THRO0068	Yes	38710	BENTAZON WATER, TOTUG/L	10/04/94-10/04/94	0	1	
THRO0003	No	38824	ISOPROPALIN TISWETWGTMG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39025	SIMAZINE,COULSON CONDUCTIVITY,WATER SAMPLE(UG/L)	08/16/76-08/09/78	1	4	
THRO0050	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	04/18/91-07/08/92	1	3	
THRO0006	Yes	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	03/29/82-05/11/82	0	2	
THRO0050	No	39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/18/91-07/08/92	1	3	
THRO0006	Yes	39046	SIMAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	1	2	
THRO0003	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/04/84-10/04/84	0	1	
THRO0003	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/04/84-10/04/84	0	1	
THRO0003	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/04/84-10/04/84	0	1	
THRO0006	Yes	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/11/89-03/30/94	4	20	
THRO0050	No	39151	MCPA-2,4D,4-CHLOR-2METHYLPHENOXY ACETIC UG/L	04/18/91-07/01/91	0	2	
THRO0006	Yes	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	03/29/82-05/11/82	0	2	
THRO0006	Yes	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/10/81-05/11/82	0	2	
THRO0003	No	39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	5	6	
THRO0003	No	39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	02/11/76-05/11/82	6	12	
THRO0006	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/08/76-05/11/82	5	6	
THRO0003	No	39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0003	No	39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	02/11/76-05/11/82	6	12	
THRO0050	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	04/18/91-07/08/92	1	3	
THRO0006	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/08/76-05/11/82	5	6	
THRO0003	No	39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	03/29/82-05/11/82	0	2	
THRO0006	Yes	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/10/81-05/11/82	0	2	
THRO0006	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0006	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/08/76-05/11/82	5	6	
THRO0003	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/04/84-10/04/84	0	1	
THRO0003	No	39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/08/76-05/11/82	5	6	
THRO0006	Yes	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	11/08/76-11/08/77	1	2	
THRO0006	Yes	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	11/08/77-05/11/82	4	9	
THRO0006	Yes	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/07/78-05/11/82	3	4	
THRO0006	Yes	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0006	Yes	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0006	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0006	Yes	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0050	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0006	Yes	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0006	Yes	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	02/11/76-08/09/78	2	5	
THRO0006	Yes	39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	1	2	
THRO0027	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0036	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0042	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0064	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	6	
THRO0068	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	6	
THRO0069	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/27/94-07/05/95	1	2	
THRO0070	Yes	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	2	
THRO0071	No	39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/13/93-07/13/93	0	1	
THRO0006	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	8	
THRO0050	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0064	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	0	1	
THRO0068	Yes	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/27/94-10/04/94	0	2	
THRO0069	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/27/94-06/27/94	0	1	
THRO0006	Yes	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	1	2	
THRO0006	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	8	
THRO0050	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0064	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	0	1	
THRO0068	Yes	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	0	1	
THRO0006	Yes	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	1	2	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0006	Yes	39755	MIREX, TOTAL (UG/L)	03/29/82-05/11/82	0	2	
THRO0006	Yes	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/10/81-05/11/82	0	2	
THRO0006	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	8	
THRO0064	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	0	1	
THRO0068	Yes	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	0	1	
THRO0006	Yes	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	1	2	
THRO0050	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	1	3	
THRO0003	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0006	Yes	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	6	12	
THRO0006	Yes	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	11/08/76-11/13/79	3	4	
THRO0027	Yes	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0036	Yes	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0042	Yes	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0064	Yes	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	5	
THRO0068	Yes	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	4	
THRO0069	No	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	0	1	
THRO0070	Yes	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	2	
THRO0071	No	46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/13/93-07/13/93	0	1	
THRO0003	No	46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	60050	ALGAE, TOTAL (CELLS/ML)	07/17/74-09/15/81	7	34	
THRO0004	No	70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	10/04/73-11/08/73	0	2	
THRO0050	No	70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	7	89	A
THRO0005	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/18/71-12/10/75	4	22	
THRO0006	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/04/71-08/23/95	23	114	T,S
THRO0007	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0008	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0012	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0014	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0017	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-10/30/86	0	1	
THRO0018	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0021	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0022	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/30/88-11/30/88	0	1	
THRO0023	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0026	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0028	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0029	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0032	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-10/30/86	0	1	
THRO0034	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	0	1	
THRO0038	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0040	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/11/76-11/11/76	0	1	
THRO0042	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0043	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	0	1	
THRO0045	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0046	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/11/49-05/10/79	29	23	
THRO0047	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/17/76-11/17/76	0	1	
THRO0048	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/11/76-11/11/76	0	1	
THRO0049	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0050	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/77-10/27/77	0	7	
THRO0051	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0053	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0055	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/26/77-07/26/77	0	1	
THRO0057	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/26/77-07/26/77	0	1	
THRO0058	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/29/77-08/21/80	2	2	
THRO0059	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0060	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0061	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0062	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	0	1	
THRO0065	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2	
THRO0075	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/11/77-08/11/77	0	1	
THRO0076	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	0	1	
THRO0006	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/04/71-04/14/83	11	72	
THRO0033	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/04/67-10/04/67	0	1	
THRO0034	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	0	1	
THRO0035	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/22/67-09/22/67	0	1	
THRO0039	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/67-09/01/67	0	1	
THRO0040	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/11/76-11/11/76	0	1	
THRO0041	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/20/67-09/20/67	0	1	
THRO0043	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	0	1	
THRO0044	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/69-07/24/69	0	1	
THRO0046	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/12/50-05/10/79	28	12	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0047	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/17/76-11/17/76	0	1	
THRO0048	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/11/76-11/11/76	0	1	
THRO0050	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/12/78-10/14/92	14	54	
THRO0052	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/05/68-10/05/68	0	1	
THRO0054	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/67-10/10/67	0	1	
THRO0055	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/77-07/26/77	0	1	
THRO0056	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/27/67-06/17/69	1	3	
THRO0057	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/77-07/26/77	0	1	
THRO0058	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/29/77-08/21/80	2	2	
THRO0062	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	0	1	
THRO0063	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/23/67-09/23/67	0	1	
THRO0072	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/18/69-06/18/69	0	1	
THRO0073	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/30/67-10/30/67	0	1	
THRO0074	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/18/69-06/18/69	0	1	
THRO0075	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/11/77-08/11/77	0	1	
THRO0076	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	0	1	
THRO0006	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/04/71-10/26/82	10	71	
THRO0040	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/11/76-11/11/76	0	1	
THRO0046	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/06/50-05/10/79	28	15	
THRO0048	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/11/76-11/11/76	0	1	
THRO0006	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/04/71-02/18/83	11	72	
THRO0033	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/04/67-10/04/67	0	1	
THRO0034	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	0	1	
THRO0039	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/67-09/01/67	0	1	
THRO0040	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/11/76-11/11/76	0	1	
THRO0041	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/20/67-09/20/67	0	1	
THRO0043	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	0	1	
THRO0046	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/11/49-05/10/79	29	22	
THRO0048	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/11/76-11/11/76	0	1	
THRO0052	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/05/68-10/05/68	0	1	
THRO0054	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/67-10/10/67	0	1	
THRO0056	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/27/67-06/17/69	1	3	
THRO0062	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	0	1	
THRO0063	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/23/67-09/23/67	0	1	
THRO0073	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/30/67-10/30/67	0	1	
THRO0076	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	0	1	
THRO0046	Yes	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/03/49-07/31/51	1	9	
THRO0046	Yes	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/03/49-07/31/51	1	10	
THRO0046	Yes	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/03/49-07/31/51	1	10	
THRO0046	Yes	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	03/06/50-07/31/51	1	7	
THRO0046	Yes	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	03/06/50-07/31/51	1	7	
THRO0006	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/09/74-10/07/93	18	80	T,S
THRO0046	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/20/49-09/17/51	1	56	
THRO0046	Yes	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/03/49-07/10/51	1	32	
THRO0046	Yes	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/03/49-07/10/51	1	32	
THRO0046	Yes	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	03/05/50-07/10/51	1	26	
THRO0046	Yes	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	03/05/50-05/23/50	0	11	
THRO0046	Yes	70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	04/05/50-04/09/50	0	3	
THRO0006	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/25/72-06/16/82	9	7	
THRO0046	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/03/49-09/28/51	1	30	
THRO0006	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/71-06/16/82	10	27	
THRO0046	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/49-09/28/51	1	66	
THRO0006	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	03/29/82-06/16/82	0	2	
THRO0046	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/04/49-09/28/51	1	23	
THRO0006	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/25/72-06/16/82	9	20	
THRO0046	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/08/49-09/28/51	1	50	
THRO0006	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/29/82-06/16/82	0	3	
THRO0046	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/20/49-07/31/51	1	14	
THRO0006	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/03/71-06/16/82	10	24	
THRO0006	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/03/71-06/16/82	10	17	
THRO0006	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/29/71-06/16/82	10	12	
THRO0006	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	03/16/72-06/16/82	10	4	
THRO0006	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	03/29/82-06/16/82	0	2	
THRO0064	Yes	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10/04/94-10/04/94	0	1	
THRO0068	Yes	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	06/27/94-10/04/94	0	2	
THRO0069	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	06/27/94-06/27/94	0	1	
THRO0005	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/13/70-12/07/71	1	18	
THRO0006	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/27/90-10/05/92	1	9	
THRO0050	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/09/77-10/18/79	2	15	
THRO0006	Yes	70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	11/08/76-09/14/77	0	3	
THRO0006	Yes	70955	CHLOROPHYLL-A,PERIDHYTON UG/L,CHROMO-SPECTRO	11/08/76-11/08/76	0	1	
THRO0006	Yes	70956	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-SPECTRO	11/08/76-11/08/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0006	Yes	70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	07/12/77-09/12/79	2	5	
THRO0006	Yes	70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	07/12/77-09/12/79	2	5	
THRO0003	No	70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	10/04/84-10/04/84	0	3	
THRO0064	Yes	70979	BROMOXYNIL, WATER, WHOLE UG/L	10/04/94-10/04/94	0	1	
THRO0068	Yes	70979	BROMOXYNIL, WATER, WHOLE UG/L	10/04/94-10/04/94	0	1	
THRO0006	Yes	71825	ACIDITY, TOTAL (MG/L AS H)	03/27/85-03/27/85	0	1	
THRO0006	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/16/79-01/20/81	1	14	
THRO0046	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	05/10/79-05/10/79	0	1	
THRO0050	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	01/23/74-07/27/81	7	11	
THRO0006	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/10/79-10/22/85	6	27	
THRO0046	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/11/49-03/23/51	1	17	
THRO0050	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/21/76-12/14/76	0	11	
THRO0006	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/04/71-07/25/72	0	6	
THRO0034	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	0	1	
THRO0040	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/11/76-11/11/76	0	1	
THRO0043	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	0	1	
THRO0046	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/19/72-11/01/76	4	4	
THRO0047	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/17/76-11/17/76	0	1	
THRO0048	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/11/76-11/11/76	0	1	
THRO0055	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/26/77-07/26/77	0	1	
THRO0057	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/26/77-07/26/77	0	1	
THRO0058	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/29/77-08/21/80	2	2	
THRO0062	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	0	1	
THRO0075	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/11/77-08/11/77	0	1	
THRO0076	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	0	1	
THRO0006	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/16/79-10/22/85	6	34	
THRO0046	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/10/79-05/10/79	0	1	
THRO0006	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-09/15/81	7	55	
THRO0046	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	05/10/79-05/10/79	0	1	
THRO0006	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/23/74-08/23/95	21	58	T,S
THRO0046	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/23/74-08/23/74	0	1	
THRO0006	Yes	71895	MERCURY, SUSPENDED (UG/L AS HG)	04/23/74-08/24/82	8	20	
THRO0005	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/21/74-12/10/75	1	18	
THRO0006	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/23/74-08/24/82	8	38	
THRO0003	No	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/04/84-10/04/84	0	2	
THRO0046	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/03/49-09/28/51	1	101	
THRO0005	No	72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	06/08/76-06/08/76	0	1	
THRO0006	Yes	72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	9	445	A
THRO0007	No	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0008	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0012	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0014	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0017	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-10/30/86	0	1	
THRO0018	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0021	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0022	Yes	74010	IRON, TOTAL (MG/L AS FE)	11/30/88-11/30/88	0	1	
THRO0023	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0026	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0028	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0029	No	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0032	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-10/30/86	0	1	
THRO0038	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0042	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0045	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0049	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0050	No	74010	IRON, TOTAL (MG/L AS FE)	07/14/82-10/14/92	10	38	
THRO0051	No	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0053	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0059	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0060	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0061	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0065	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2	
THRO0003	No	76530	BIPHENYL TISSUE ,WET WGT,MG/KG	10/04/84-10/04/84	0	1	
THRO0050	No	77825	ALACHLOR WHOLE WATER,UG/L	04/18/91-07/08/92	1	3	
THRO0050	No	78062	NONACHLOR, TRANS, WHOLE WATER UG/L	04/18/91-07/08/92	1	3	
THRO0003	No	78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	10/04/84-10/04/84	0	1	
THRO0050	No	79190	PENDIMETHALIN, WATER, WHOLE UG/L	04/18/91-07/08/92	1	3	
THRO0009	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	04/02/84-04/02/84	0	1	
THRO0009	No	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	04/02/84-04/02/84	0	1	

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Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0009	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	04/02/84-04/02/84	0	1	
THRO0009	No	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	04/02/84-04/02/84	0	1	
THRO0006	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/71-10/07/93	22	106	T,S
THRO0046	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/49-09/28/51	1	76	
THRO0006	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/03/71-03/29/82	10	63	
THRO0006	Yes	80157	BED MATERIAL FALL DIAMETER, % FINER THAN .004MM	11/28/73-11/28/73	0	1	
THRO0006	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	07/25/72-10/11/76	4	22	
THRO0006	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	07/25/72-06/21/78	5	23	
THRO0046	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	07/25/72-06/21/78	5	23	
THRO0046	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	07/25/72-06/21/78	5	23	
THRO0046	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	07/25/72-10/11/76	4	22	
THRO0046	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	06/21/78-08/30/83	5	2	
THRO0046	Yes	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/25/72-10/11/76	4	22	
THRO0046	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/25/72-10/11/76	4	20	
THRO0046	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	07/25/72-10/11/76	4	17	
THRO0046	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	07/25/72-10/11/76	4	17	
THRO0046	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	06/22/78-06/22/78	0	1	
THRO0006	Yes	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	01/16/73-10/11/76	3	7	
THRO0050	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	04/18/91-07/08/92	1	3	
THRO0003	No	81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/04/84-10/04/84	0	1	
THRO0003	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/04/84-10/04/84	0	1	
THRO0003	No	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	10/04/84-10/04/84	0	1	
THRO0050	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	04/18/91-07/08/92	1	3	
THRO0003	No	81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/04/84-10/04/84	0	1	
THRO0006	Yes	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/10/81-05/11/82	0	2	
THRO0003	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/04/84-10/04/84	0	1	
THRO0064	Yes	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	10/04/94-10/04/94	0	1	
THRO0068	Yes	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	10/04/94-10/04/94	0	1	
THRO0006	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/11/81-07/14/81	0	5	
THRO0007	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0008	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0012	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0014	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0017	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-10/30/86	0	1	
THRO0018	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0021	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0022	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0026	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0028	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0029	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0038	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0042	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0045	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0049	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0051	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0053	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0059	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0060	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0061	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2	
THRO0065	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	0	1	
THRO0006	Yes	82130	ICE, THICKNESS IN FEET	05/02/83-11/21/91	8	31	
THRO0006	Yes	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	03/29/82-05/11/82	0	2	
THRO0064	Yes	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/04/94-10/04/94	0	1	
THRO0068	Yes	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/04/94-10/04/94	0	1	
THRO0006	Yes	82398	SAMPLING METHOD (CODES)	09/10/74-07/07/92	17	25	
THRO0011	No	82398	SAMPLING METHOD (CODES)	08/22/83-08/22/83	0	1	
THRO0013	No	82398	SAMPLING METHOD (CODES)	08/22/83-08/22/83	0	1	
THRO0015	No	82398	SAMPLING METHOD (CODES)	08/22/83-08/22/83	0	1	
THRO0019	No	82398	SAMPLING METHOD (CODES)	08/22/83-08/22/83	0	1	
THRO0025	No	82398	SAMPLING METHOD (CODES)	08/22/83-08/22/83	0	1	
THRO0030	No	82398	SAMPLING METHOD (CODES)	08/22/83-08/22/83	0	1	
THRO0067	No	82398	SAMPLING METHOD (CODES)	08/26/83-08/26/83	0	1	

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

Station/Parameter Period of Record Tabulation
From 10/03/49 To 03/18/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
THRO0009	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/02/84-04/02/84	0	1	
THRO0010	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0011	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0013	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0015	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0016	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0019	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0025	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0030	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0033	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/04/67-10/04/67	0	1	
THRO0035	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/22/67-09/22/67	0	1	
THRO0039	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/01/67-09/01/67	0	1	
THRO0041	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/20/67-09/20/67	0	1	
THRO0043	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/15/76-11/15/76	0	1	
THRO0044	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/24/69-07/24/69	0	1	
THRO0047	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/17/76-11/17/76	0	1	
THRO0048	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/11/76-11/11/76	0	1	
THRO0054	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/10/67-10/10/67	0	1	
THRO0055	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/26/77-07/26/77	0	1	
THRO0056	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/17/69-06/17/69	0	1	
THRO0057	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/26/77-07/26/77	0	1	
THRO0058	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/29/77-09/29/77	0	1	
THRO0067	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/26/83-08/26/83	0	1	
THRO0072	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/18/69-06/18/69	0	1	
THRO0073	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/30/67-10/30/67	0	1	
THRO0074	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/18/69-06/18/69	0	1	
THRO0075	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/11/77-08/11/77	0	1	
THRO0076	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/15/76-11/15/76	0	1	
THRO0009	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/02/84-04/02/84	0	1	
THRO0010	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0011	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0013	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0015	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0016	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0019	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0025	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0030	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/22/83-08/22/83	0	1	
THRO0033	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/04/67-10/04/67	0	1	
THRO0035	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/22/67-09/22/67	0	1	
THRO0039	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/01/67-09/01/67	0	1	
THRO0041	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/20/67-09/20/67	0	1	
THRO0043	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/15/76-11/15/76	0	1	
THRO0044	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/24/69-07/24/69	0	1	
THRO0047	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/17/76-11/17/76	0	1	
THRO0048	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/11/76-11/11/76	0	1	
THRO0054	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/10/67-10/10/67	0	1	
THRO0055	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/26/77-07/26/77	0	1	
THRO0056	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/17/69-06/17/69	0	1	
THRO0057	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/26/77-07/26/77	0	1	
THRO0058	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/29/77-09/29/77	0	1	
THRO0067	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/26/83-08/26/83	0	1	
THRO0072	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/18/69-06/18/69	0	1	
THRO0073	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/30/67-10/30/67	0	1	
THRO0074	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/18/69-06/18/69	0	1	
THRO0075	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/11/77-08/11/77	0	1	
THRO0076	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/15/76-11/15/76	0	1	
THRO0003	No	84007	ANATOMY ALPHA CODE	10/04/84-10/04/84	0	3	
THRO0003	No	85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85682	NITROFEN TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85683	PERTHANE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	
THRO0003	No	85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	0	1	

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

Station-By-Station Results

Station Inventory for Station: THRO0001

NPS Station ID: THRO0001
LAT/LON: 47.590281/-103.251393
Agency: 11EPALES
Date Created: / /
Location: LITTLE MISSOURI RIVER
FIPS State/County: 38000 NORTH DAKOTA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 3812B1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: T/SAKAKAWEA LAKE
Elevation: 0
Water Body Id:
Minor Basin: US HWY 85 BRDG 17.5 MI S OF WATFORD CITY
ECO Region:
RF1 Index: 10110205027
RF1 Mile Point: 10.330
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10110205033400.00
RF3 Mile Point: 0.96
Distance from RF3: 0.33
On/Off RF3:
Description:
U S HWY 85 BRIDGE 17.5 MI S OF WATFORD CITY SEC 35 T 148 N R 99 W USGS GAGE #06337000 IS LOCATED NEARBY

Parameter Inventory for Station: THRO0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/22/74-08/22/75	9	0.03	0.051	0.2	0.003	0.003	0.058	0.003	0.025	0.054	0.2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/22/74-10/20/74	2 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/22/74-10/20/74	2	0.006	0.006	0.008	0.004	0.	0.003	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/22/74-08/22/75	8	1.15	1.344	3.5	0.4	1.013	1.007	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/22/74-08/22/75	9	0.09	0.176	0.53	0.004	0.044	0.21	0.004	0.014	0.385	0.53
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/22/74-08/22/75	8	0.12	0.177	0.5	0.04	0.025	0.158	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/22/74-08/22/75	9	0.01	0.018	0.045	0.005	0.	0.016	0.005	0.005	0.033	0.045

** - Less 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: THRO0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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.	2	0	0.00	2	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00	4	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: THRO0002

NPS Station ID: THRO0002
LAT/LON: 47.590281/-103.251393
Agency: 11NATDC
Date Created: 06/07/85
Location: LITTLE MISSOURI R NR WATFORD CITY
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): T0708391 /2105
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI R
Elevation: 0
Water Body Id:
Minor Basin: N CENTRAL MISSOURI R-MILK R TO SPRING C
ECO Region:
RF1 Index: 10110205027
RF1 Mile Point: 10.310
Distance from RF1: 11.50
On/Off RF1: ON
RF3 Index: 10110205082103.03
RF3 Mile Point: 4.31
Distance from RF3: 0.76
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0002

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: THRO0003

NPS Station ID: THRO0003
LAT/LON: 47.590281/-103.251393
Agency: 11BIOACC
Date Created: 02/24/90
Location: LITTLE MISSOURI RIVER @ WATFORD CITY
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 2105
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110205002714.54
RF3 Mile Point: 14.62
Distance from RF3: 0.13
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	10/04/84-10/04/84	3 ##	0.645	0.697	0.875	0.57	0.025	0.159	**	**	**	**
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	10/04/84-10/04/84	3 ##	0.395	0.495	0.725	0.365	0.04	0.2	**	**	**	**
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	10/04/84-10/04/84	3 ##	0.395	0.495	0.725	0.365	0.04	0.2	**	**	**	**
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	10/04/84-10/04/84	3 ##	0.395	0.495	0.725	0.365	0.04	0.2	**	**	**	**
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	10/04/84-10/04/84	3 ##	1.79	1.81	2.58	1.06	0.578	0.76	**	**	**	**
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.2	0.18	0.24	0.1	0.005	0.072	**	**	**	**
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.315	0.317	0.45	0.185	0.018	0.133	**	**	**	**
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.315	0.317	0.45	0.185	0.018	0.133	**	**	**	**
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.395	0.487	0.73	0.335	0.045	0.213	**	**	**	**
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.395	0.487	0.73	0.335	0.045	0.213	**	**	**	**
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.395	0.487	0.73	0.335	0.045	0.213	**	**	**	**
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	10/04/84-10/04/84	3 ##	0.395	0.487	0.73	0.335	0.045	0.213	**	**	**	**
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	10/04/84-10/04/84	3 ##	1.435	1.378	2.065	0.635	0.514	0.717	**	**	**	**
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	10/04/84-10/04/84	3 ##	1.435	1.378	2.065	0.635	0.514	0.717	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	10/04/84-10/04/84	3 ##	0.22	0.237	0.29	0.2	0.002	0.047	**	**	**	**
38824	ISOPROPALIN TISWETWGTMG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/04/84-10/04/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/04/84-10/04/84	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	10/04/84-10/04/84	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

Parameter Inventory for Station: THRO0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	10/04/84-10/04/84	3 ##	0.	0.003	0.01	0.	0.	0.006	**	**	**	**
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/04/84-10/04/84	2 ##	0.263	0.263	0.5	0.025	0.113	0.336	**	**	**	**
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85682	NITROFEN TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85683	PERTHANE TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	10/04/84-10/04/84	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

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

Station Inventory for Station: THRO0004

NPS Station ID: THRO0004 LAT/LON: 47.590559/-103.255003 Agency: 21NDHDWQ Date Created: / /
Location: LITTLE MISSOURI R ON HWY 85 FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 380059 /09031070
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10110205 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI R. MAJOR BASIN Elevation: 0 Water Body Id:
Minor Basin: MISSOURI-SOURIS ECO Region:
RF1 Index: 10110205027 RF1 Mile Point: 10.440 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 10110205002709.53 RF3 Mile Point: 9.75 Distance from RF3: 0.04 On/Off RF3:
Description:
LITTLE MISSOURI RIVER ON HWY 85 BRIDGE, NEAR NORTH UNIT, THEODORE NATIONAL PARK.

Parameter Inventory for Station: THRO0004

Parameter		Period of Record	Obs		Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/73-11/08/73	2		7.	7.	13.	1.	72.	8.485	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/04/73-11/08/73	2		8.95	8.95	9.4	8.5	0.405	0.636	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/04/73-11/08/73	2		2.75	2.75	2.9	2.6	0.045	0.212	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/04/73-11/08/73	2		7.7	7.7	8.3	7.1	0.72	0.849	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/04/73-11/08/73	2		7.374	7.374	8.3	7.1	0.932	0.965	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/04/73-11/08/73	2		0.042	0.042	0.079	0.005	0.003	0.053	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/04/73-11/08/73	2	##	0.163	0.163	0.32	0.005	0.05	0.223	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/04/73-11/08/73	2		247.5	247.5	280.	215.	2112.5	45.962	**	**	**	**
00932	SODIUM, PERCENT	10/04/73-11/08/73	2		75.	75.	75.	75.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/73-11/08/73	2	##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/73-11/08/73	2		415.	415.	605.	225.	72200.	268.701	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	10/04/73-11/08/73	2		6015.	6015.	12000.	30.	71640450.	8464.068	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	10/04/73-11/08/73	2		2.778	2.778	4.079	1.477	3.385	1.84	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =				600.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/04/73-11/08/73	2	##	232.5	232.5	460.	5.	103512.5	321.734	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/04/73-11/08/73	2	##	1.681	1.681	2.663	0.699	1.928	1.389	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =				47.958								
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	10/04/73-11/08/73	2		1009.	1009.	1170.	848.	51842.	227.688	**	**	**	**

** - Less 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: THRO0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	2	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									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	1	0.50	2	1	0.50									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	1	0.50	2	1	0.50									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	1	0.50	2	1	0.50									

& - 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: THRO0005

NPS Station ID: THRO0005
LAT/LON: 47.590281/-103.256115
Agency: 121MBRCE
Date Created: / /
Location: LITTLE MISSOURI R NEAR WATFORD
FIPS State/County: 38000 NORTH DAKOTA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370003
RMI-Indexes: 1021500 009490
Within Park Boundary: No
RMI-Miles: 1149.40 1436.30
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI RIVER
Elevation: 0
Water Body Id:
Minor Basin: UPPER MISSOURI
ECO Region:
RF1 Index: 10110205027
RF1 Mile Point: 10.530
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10110204000508.04
RF3 Mile Point: 8.89
Distance from RF3: 0.66
On/Off RF3:
Description:
LITTLE MO R 17.5 MI S OF WATFORD 17 MI UPSTRM FROM CHERRY CR US HWY 85 SAMPLED BY CORPS OF ENGINEERS NO GR-2 USGS 6-3370
LAT 4735250 10315220 LONG

Parameter Inventory for Station: THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/70-06/08/76	50	6.6	9.27	28.3	0.	81.545	9.03	0.	0.5	16.85	22.98
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/08/71-05/10/72	10	48.5	51.9	81.	32.	307.878	17.546	32.	32.75	67.	80.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/71-06/08/76	32	13.75	13.388	33.	0.5	96.673	9.832	1.65	4.625	21.875	25.5
00032	CLOUD COVER (PERCENT)	04/27/76-06/08/76	2	57.5	57.5	100.	15.	3612.5	60.104	**	**	**	**
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	60	2.345	4.38	76.	0.68	95.502	9.773	0.9	1.2	4.613	6.561
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	05/18/71-12/10/75	39	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/11/68-11/18/69	15	350.	6858.133	51600.	13.	212990219.695	14594.184	21.4	74.	6500.	38640.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/18/71-03/18/76	23	320.	1583.957	15000.	14.	11328084.407	3365.722	18.6	62.	1425.	5900.
00080	COLOR (PLATINUM-COBALT UNITS)	03/18/76-03/18/76	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/72-06/08/76	4	1300.	1331.25	1800.	925.	188906.25	434.633	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	77	1580.	1669.221	4900.	213.	686205.437	828.375	778.4	1058.5	2015.	2608.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/18/76-06/08/76	3	9.7	9.333	9.9	8.4	0.663	0.814	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	49	10.	9.584	13.3	0.9	5.681	2.383	7.	7.85	11.45	12.5
00335	COD, .025N K2CR2O7 MG/L	03/18/76-06/08/76	3	86.	121.333	252.	26.	13705.333	117.07	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/68-06/08/76	75	8.1	8.105	9.	7.3	0.142	0.377	7.642	7.8	8.4	8.7
00400	CONVERTED PH (STANDARD UNITS)	05/11/68-06/08/76	75	8.1	7.959	9.	7.3	0.164	0.405	7.642	7.8	8.4	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/68-06/08/76	75	0.008	0.011	0.05	0.001	0.	0.009	0.002	0.004	0.016	0.023
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	74	280.	348.081	2700.	112.	132424.213	363.901	140.5	183.	364.	557.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/11/68-12/04/74	28	1090.5	1166.536	2732.	442.	298357.591	546.221	506.2	705.5	1403.75	1979.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/18/71-06/08/76	23	0.06	0.26	2.8	0.	0.358	0.598	0.	0.01	0.26	0.77
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/11/68-12/10/75	65	0.41	0.623	2.95	0.	0.468	0.684	0.01	0.11	1.065	1.566
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/27/76-06/08/76	2	0.47	0.47	0.52	0.42	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/08/71-12/07/71	10	0.16	0.269	0.71	0.01	0.064	0.253	0.013	0.048	0.5	0.698
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/18/71-12/10/75	22	0.055	0.125	1.	0.	0.045	0.211	0.013	0.02	0.138	0.284
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/14/69-12/12/73	23	0.02	0.027	0.11	0.	0.001	0.026	0.	0.01	0.04	0.06
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/11/68-06/08/76	15	0.48	1.996	16.	0.002	16.653	4.081	0.019	0.06	1.75	9.238
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/14/69-09/15/69	6	0.035	0.053	0.12	0.02	0.002	0.043	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/72-12/12/73	18	0.015	0.018	0.04	0.	0.	0.013	0.	0.007	0.029	0.04
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	74	287.5	289.541	662.	83.	14677.402	121.15	153.	192.	367.75	448.
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	04/14/69-11/18/69	8	178.5	170.625	278.	74.	3865.696	62.175	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/05/68-12/10/75	23	64.	71.704	235.2	30.	1850.465	43.017	34.4	45.	81.	117.8
00920	MAGNESIUM (MG/L AS CACO3)	05/18/71-12/10/75	22	28.5	32.909	76.	8.	356.944	18.893	10.8	16.75	47.25	59.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/18/71-12/10/75	22	250.	294.727	688.	84.	29413.446	171.503	92.7	133.	415.	569.2

** - 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

Parameter Inventory for Station: THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/18/71-12/10/75	22	11.	11.123	16.7	4.7	8.614	2.935	5.55	9.875	12.925	14.44
00940	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	73	8.	8.151	27.	0.	34.796	5.899	1.	4.	10.	16.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	72	570.	583.653	1320.	118.	78970.455	281.017	234.3	300.75	763.75	945.5
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/18/76-06/08/76	3	7.	7.	14.	0.	49.	7.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	03/18/76-06/08/76	3	6.	5.	9.	0.	21.	4.583	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)	03/18/76-06/08/76	3	14.	51.333	140.	0.	5945.333	77.106	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/18/76-06/08/76	2	3460.5	3460.5	6300.	621.	16125520.5	4015.659	**	**	**	**
01132	LITHIUM, TOTAL (UG/L AS LI)	03/18/76-06/08/76	3	88.	103.333	190.	32.	6417.333	80.108	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/21/74-07/24/75	7	0.	22.857	100.	0.	1657.143	40.708	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/21/74-07/24/75	7	0.	0.54	2.	0.	0.854	0.924	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.465								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/18/71-12/10/75	22	1169.	1266.091	2732.	468.	429093.134	655.052	490.	643.5	1756.5	2393.4
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/13/70-12/07/71	18	0.03	1.912	18.8	0.	29.141	5.398	0.	0.025	0.128	14.84
71900	MERCURY, TOTAL (UG/L AS HG)	01/21/74-12/10/75	18	0.	0.333	2.	0.	0.471	0.686	0.	0.	0.25	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: THRO0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	23	19	0.83	11	7	0.64	4	4	1.00	3	3	1.00	5	5	1.00
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	0	0.00				1	0	0.00	1	0	0.00	1	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	49	1	0.02	28	1	0.04	4	0	0.00	5	0	0.00	12	0	0.00
00400	PH	Other-Hi Lim.	9.	75	1	0.01	40	1	0.03	5	0	0.00	6	0	0.00	24	0	0.00
		Other-Lo Lim.	6.5	75	0	0.00	40	0	0.00	5	0	0.00	6	0	0.00	24	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	65	0	0.00	35	0	0.00	4	0	0.00	6	0	0.00	20	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	73	0	0.00	39	0	0.00	5	0	0.00	7	0	0.00	22	0	0.00
		Drinking Water	250.	73	0	0.00	39	0	0.00	5	0	0.00	7	0	0.00	22	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	72	63	0.88	39	37	0.95	5	4	0.80	7	5	0.71	21	17	0.81
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00				1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	4.	3	2	0.67				1	0	0.00	1	1	1.00	1	1	1.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	7	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	18	0	0.00	10	0	0.00	3	0	0.00	2	0	0.00	3	0	0.00
		Drinking Water	2.	18	2	0.11	10	2	0.20	3	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

Annual Analysis for 1968 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	2	38.34	38.34	76.	0.68	2836.551	53.259	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	7	1568.	1588.	2100.	972.	176485.	420.101	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	296.	337.571	692.	142.	31754.619	178.198	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	216.	234.714	349.	83.	10751.905	103.691	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	7	8.	9.571	15.	6.	9.286	3.047	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	7	480.	466.714	840.	187.	44120.905	210.05	**	**	**	**

** - 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 1969 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	8	1120.	1264.375	2895.	213.	736380.839	858.126	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	8	259.	245.875	450.	112.	14418.125	120.075	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	8	294.5	287.25	535.	141.	16749.643	129.42	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	8	4.	4.125	8.	0.	7.839	2.8	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	8	520.	533.625	1140.	235.	90305.125	300.508	**	**	**	**

** - Less 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 THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	7	2.02	2.446	5.84	1.03	2.845	1.687	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	8	1767.5	1551.125	1935.	900.	174234.411	417.414	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	4	10.	9.5	11.	7.	3.	1.732	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	8	406.	826.	2700.	149.	900494.571	948.944	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	8	251.5	244.5	337.	152.	3646.857	60.389	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	8	8.	10.875	25.	2.	78.125	8.839	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	8	679.	595.75	765.	188.	51763.071	227.515	**	**	**	**

** - Less 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 THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	12	4.095	4.152	8.5	1.62	3.183	1.784	1.914	2.91	4.8	7.63
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	12	1015.	1078.083	1820.	543.	181425.356	425.941	547.8	774.	1430.	1784.
00300p	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	9	8.	8.9	12.	6.5	4.718	2.172	6.5	7.	11.3	12.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	11	184.	232.091	532.	132.	14515.491	120.48	132.2	139.	274.	493.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	12	205.5	238.833	437.	107.	10583.97	102.878	114.2	170.75	313.	424.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	11	4.	5.455	17.	0.	24.273	4.927	0.2	2.	8.	15.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	12	341.5	383.75	754.	118.	36326.75	190.596	151.6	236.5	491.5	728.8

** - 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 1972 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	8	1.4	1.538	2.5	0.8	0.426	0.652	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	8	1800.	2103.125	3750.	1300.	599720.982	774.417	**	**	**	**

** - Less 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 THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	8	9.1	9.262	12.5	6.7	4.268	2.066	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	8	262.	301.625	573.	183.	15440.839	124.261	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	370.	373.286	662.	240.	19502.238	139.65	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	7	13.	13.	23.	5.	33.667	5.802	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	5	875.	850.	1260.	417.	90914.5	301.52	**	**	**	**

** - 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

Annual Analysis for 1973 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	10	1.55	2.08	5.2	0.7	2.311	1.52	0.7	0.85	3.125	5.06
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	15	1670.	1756.867	2560.	998.	208662.267	456.796	1134.2	1360.	2150.	2404.
00300p	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	10	10.95	10.45	13.3	7.3	5.487	2.342	7.35	8.1	12.6	13.29
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	13	286.	279.538	496.	173.	6365.103	79.782	183.	220.5	292.	433.6
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	13	336.	312.692	511.	154.	13634.397	116.766	154.	194.	416.	480.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	13	8.	9.385	16.	3.	24.423	4.942	3.	5.	15.5	16.
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	13	640.	658.308	950.	333.	33951.397	184.259	395.8	525.	807.5	950.

** - Less 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 THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	9	5.2	6.244	14.4	1.2	19.33	4.397	1.2	2.8	9.9	14.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	10	1675.	2040.	4900.	825.	1534750.	1238.85	827.5	1150.	2812.5	4695.
00300p	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	9	10.3	10.389	12.6	6.7	3.704	1.924	6.7	9.05	12.1	12.6
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	10	281.	298.	648.	152.	23210.667	152.35	152.6	170.	367.5	622.2
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	10	275.5	284.4	471.	159.	11238.044	106.01	159.	187.5	375.25	463.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	10	8.5	9.1	27.	1.	48.989	6.999	1.2	5.25	10.	25.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	10	582.5	634.5	1320.	268.	105438.944	324.714	269.7	390.	871.25	1281.5

** - 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 1975 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	9	1.6	2.133	6.6	0.7	3.42	1.849	0.7	1.05	2.65	6.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	9	2075.	2041.667	4200.	625.	1485468.75	1218.798	625.	837.5	2950.	4200.
00300p	OXYGEN, DISSOLVED MG/L	04/13/70-12/10/75	9	8.9	8.822	13.1	0.9	11.677	3.417	0.9	8.05	10.85	13.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	9	318.	360.	698.	122.	46156.	214.839	122.	166.	558.	698.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	9	366.	349.	601.	124.	26207.5	161.887	124.	184.	486.5	601.
00940p	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	9	5.	4.889	9.	1.	12.111	3.48	1.	1.	8.5	9.
00945p	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	9	792.	662.556	1240.	180.	140323.528	374.598	180.	240.5	925.	1240.

** - Less 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

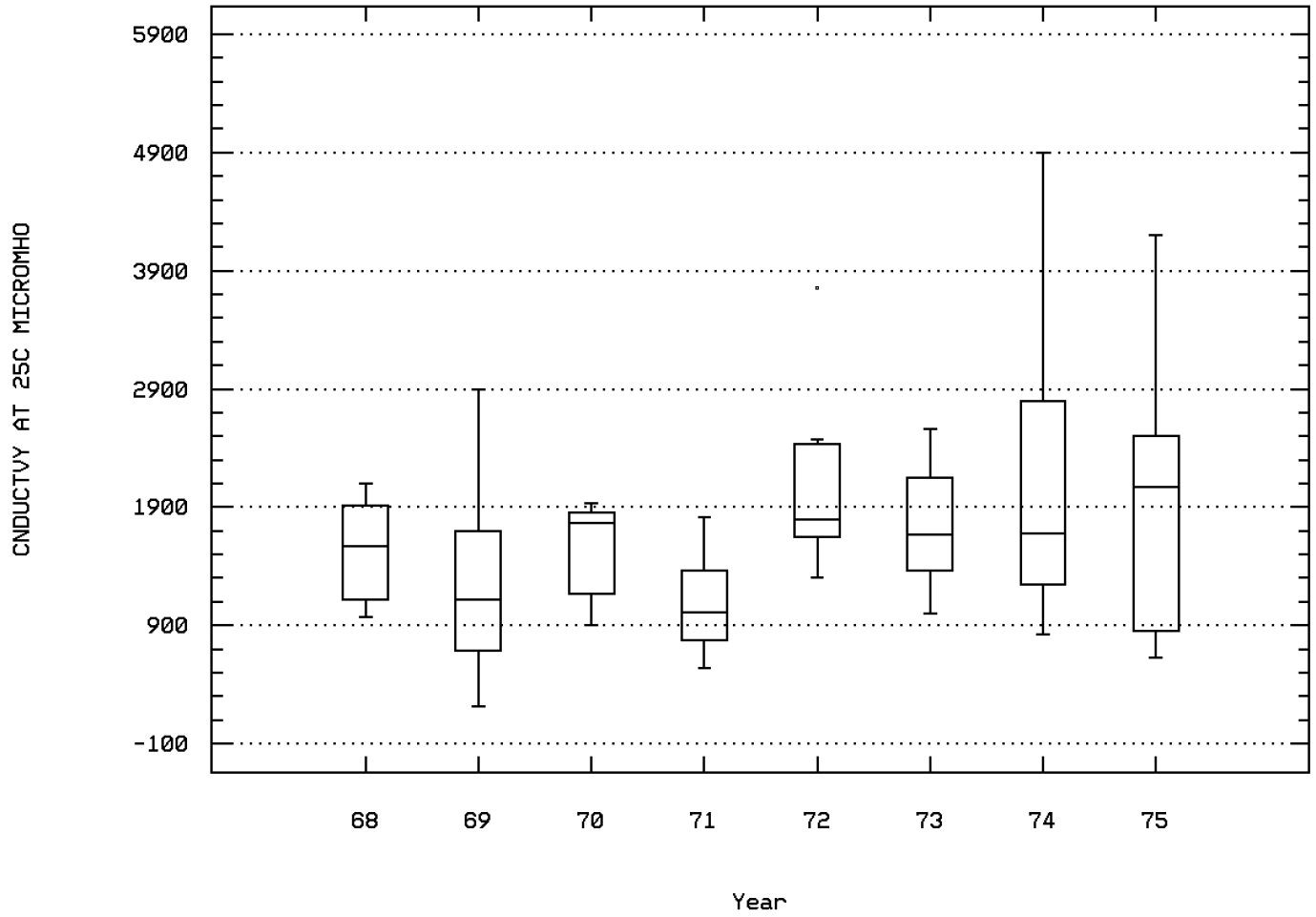
Annual Analysis for 1976 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	3	2.28	3.557	6.21	2.18	5.283	2.298	**	**	**	**

** - Less 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: THRO0005 Parameter Code: 00095

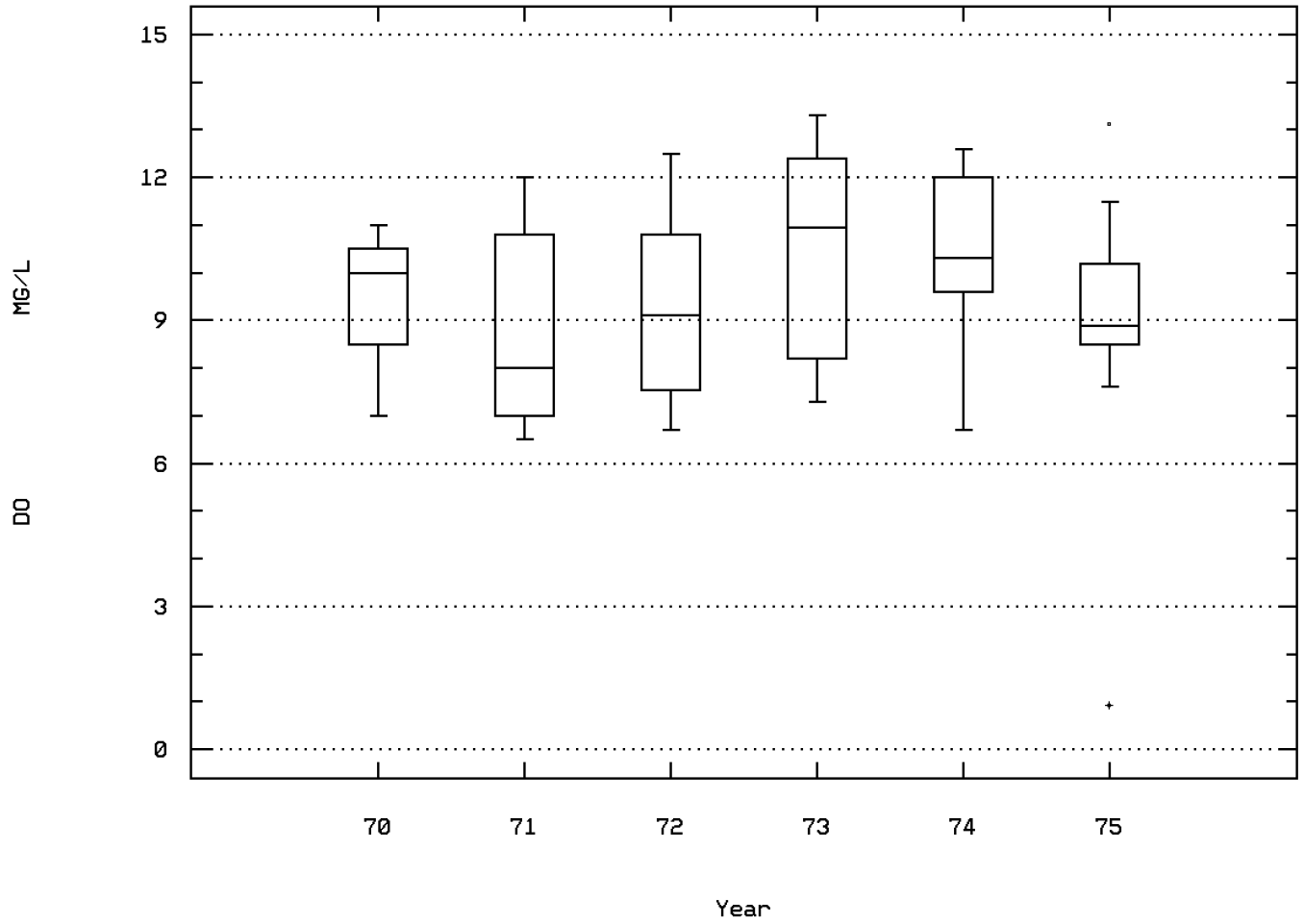
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



LITTLE MISSOURI R NEAR WATFORD

Station: THRO0005 Parameter Code: 00300

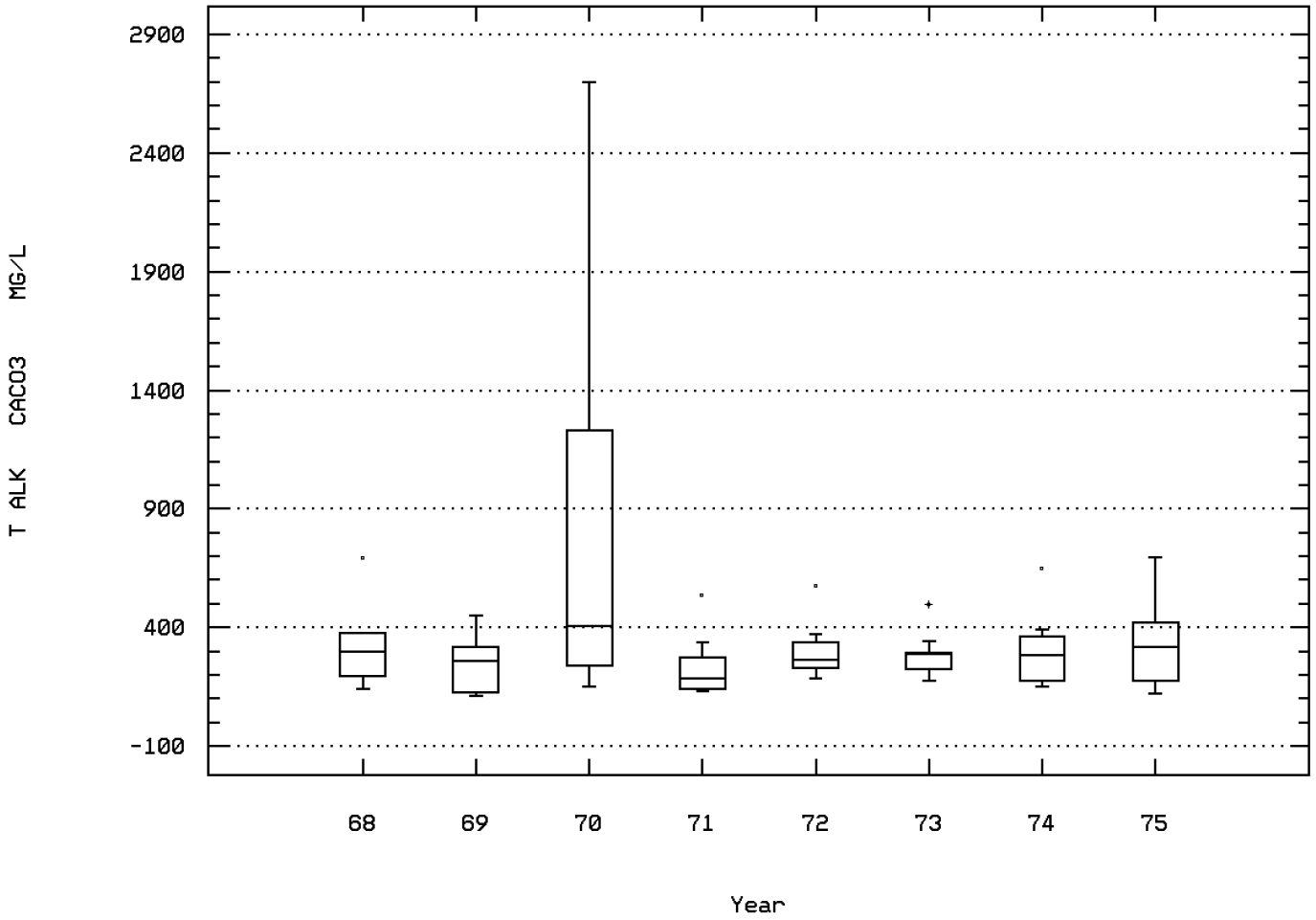
OXYGEN, DISSOLVED



LITTLE MISSOURI R NEAR WATFORD

Station: THRO0005 Parameter Code: 00410

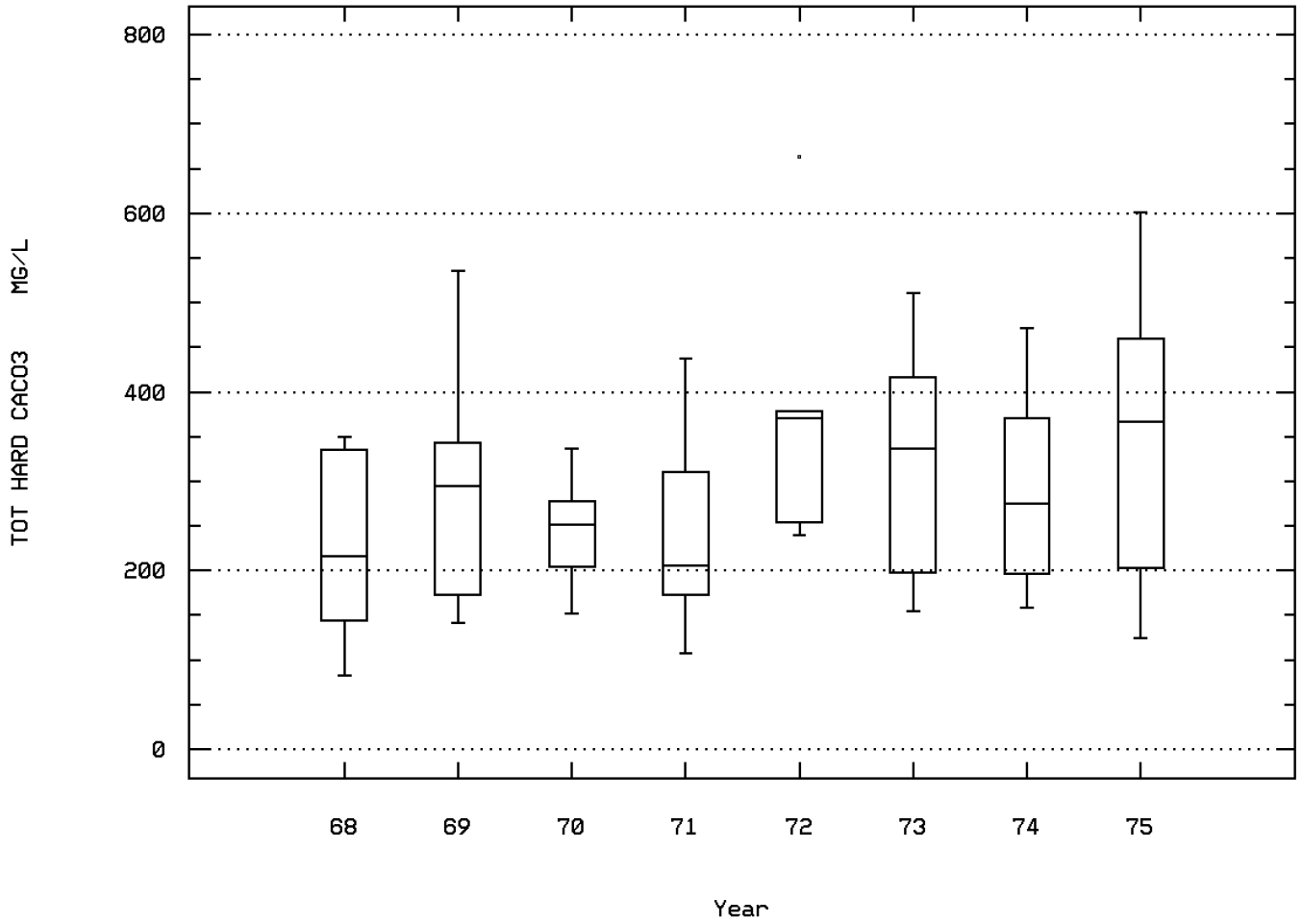
ALKALINITY, TOTAL (MG/L AS CACO3)



LITTLE MISSOURI R NEAR WATFORD

Station: THRO0005 Parameter Code: 00900

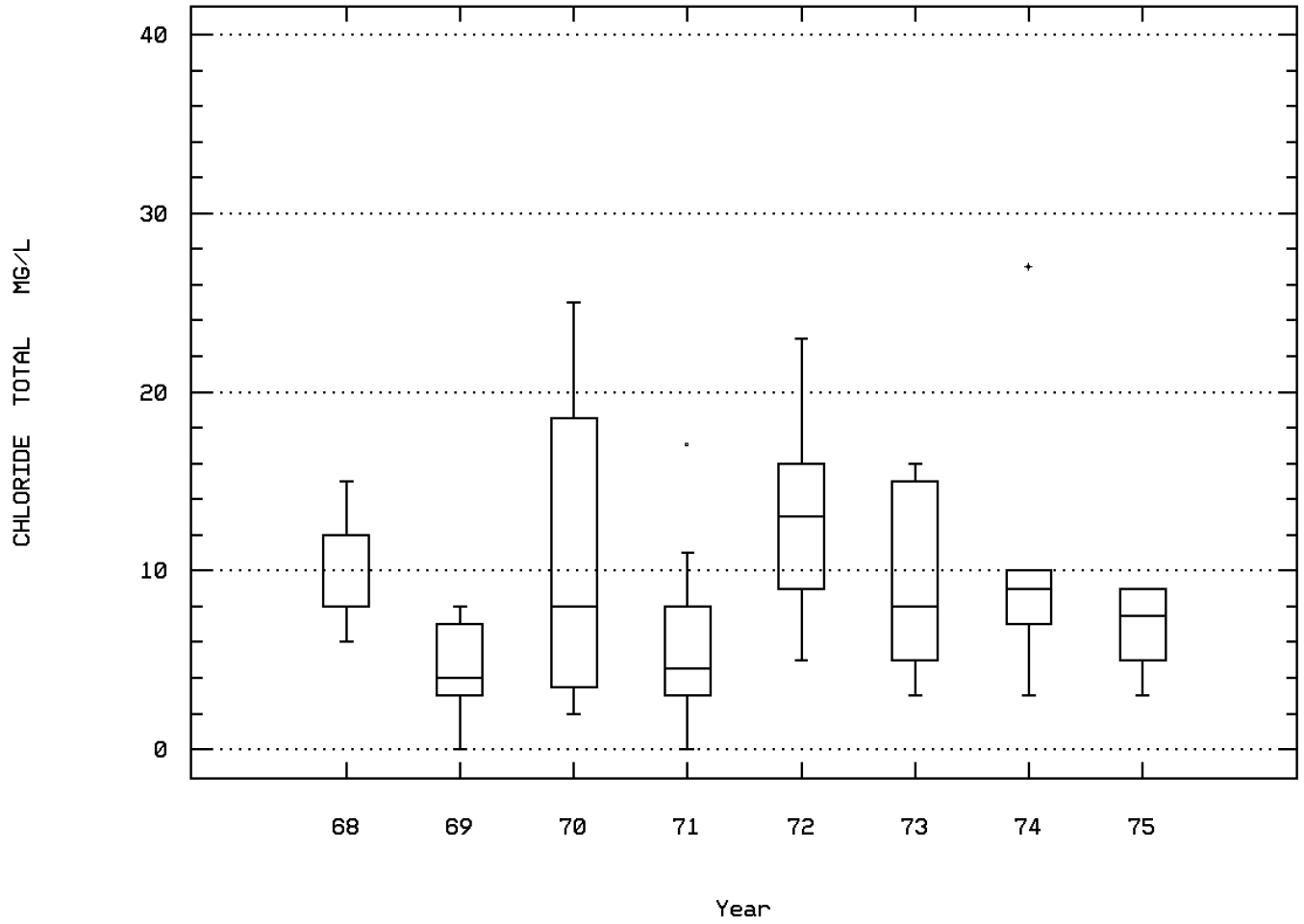
HARDNESS, TOTAL (MG/L AS CACO3)



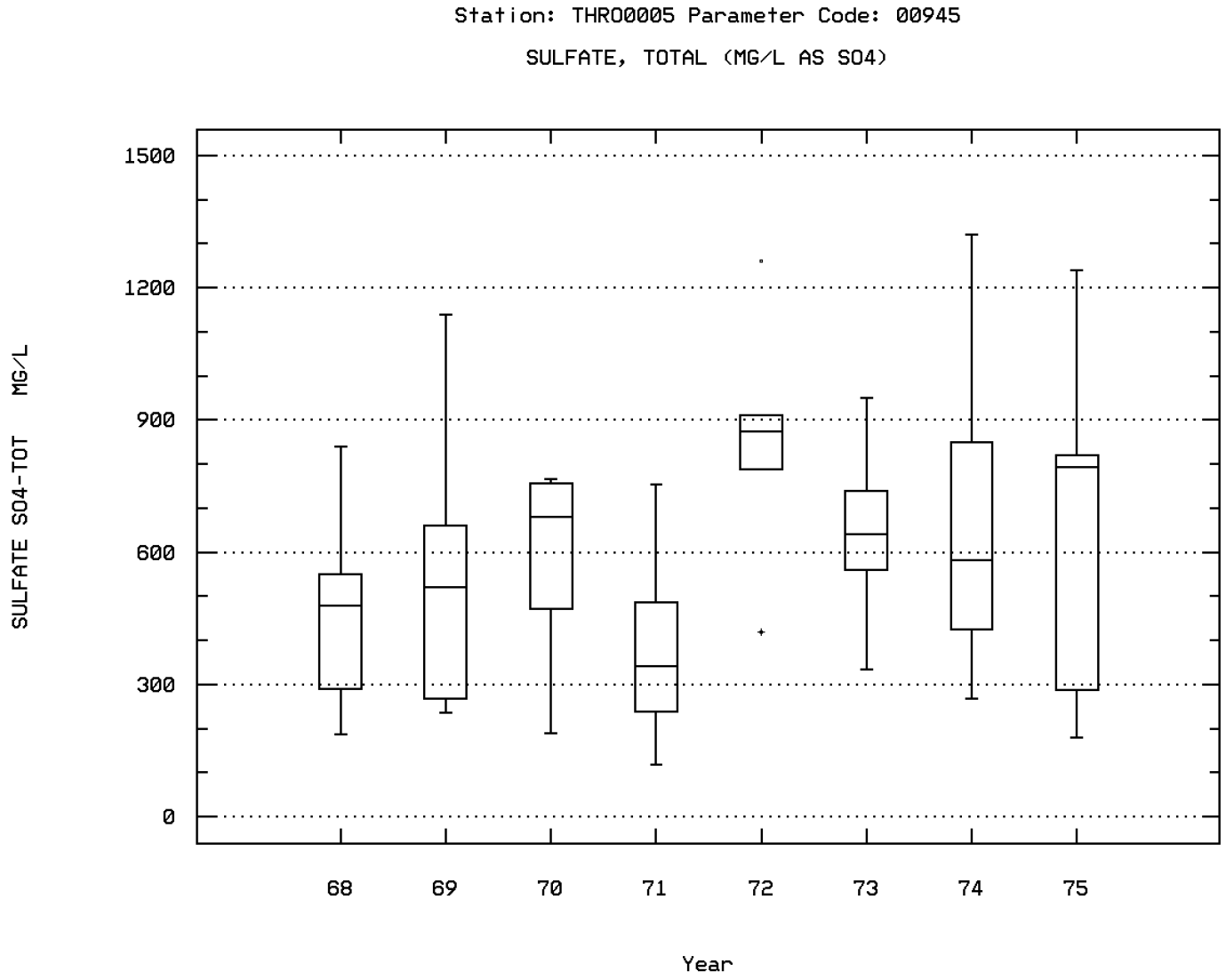
LITTLE MISSOURI R NEAR WATFORD

Station: THRO0005 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



LITTLE MISSOURI R NEAR WATFORD



LITTLE MISSOURI R NEAR WATFORD

Seasonal Analysis for Season #1: 8/01 to 2/14 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/70-06/08/76	25	1.5	7.052	26.	0.	74.592	8.637	0.	0.	15.25	21.12
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	31	1.5	5.115	76.	0.68	183.209	13.535	0.7	0.9	3.78	10.56
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	42	1926.5	2044.976	4900.	213.	811644.951	900.913	1025.4	1490.	2418.75	3248.5
00400	PH (STANDARD UNITS)	05/11/68-06/08/76	40	8.15	8.196	9.	7.49	0.122	0.349	7.755	8.	8.4	8.7
00400	CONVERTED PH (STANDARD UNITS)	05/11/68-06/08/76	40	8.147	8.07	9.	7.49	0.138	0.372	7.755	8.	8.4	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/68-06/08/76	40	0.007	0.009	0.032	0.001	0.	0.007	0.002	0.004	0.01	0.018
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	39	324.	398.564	1924.	145.	84878.779	291.34	175.	268.	441.	692.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/11/68-12/04/74	14	1390.5	1494.	2732.	664.	303516.615	550.923	667.5	1190.	1829.75	2385.5
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/11/68-12/10/75	35	0.4	0.582	2.26	0.	0.44	0.664	0.008	0.06	1.09	1.67
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	40	335.5	339.075	662.	83.	16642.994	129.008	154.5	249.25	416.	513.7
00910	CALCIUM (MG/L AS CACO3)	11/05/68-12/10/75	12	76.5	89.683	235.2	35.	2714.076	52.097	38.6	60.75	110.	200.34
00940	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	39	9.	10.385	27.	0.	44.717	6.687	1.	6.	15.	22.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	39	740.	724.154	1320.	187.	72640.397	269.519	290.	530.	875.	1140.

** - Less 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: 2/15 to 3/19 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/70-06/08/76	5	0.5	0.3	0.5	0.	0.075	0.274	**	**	**	**
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	6	5.2	4.802	6.21	1.9	2.242	1.497	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	5	880.	975.6	1325.	825.	42544.3	206.263	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/68-06/08/76	5	8.2	8.18	8.7	7.3	0.337	0.581	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/68-06/08/76	5	8.2	7.851	8.7	7.3	0.472	0.687	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/68-06/08/76	5	0.006	0.014	0.05	0.002	0.	0.02	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	5	176.	172.6	198.	139.	713.8	26.717	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/11/68-12/04/74	2	742.	742.	908.	576.	55112.	234.759	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/11/68-12/10/75	4	0.555	0.908	2.12	0.4	0.666	0.816	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	5	197.	195.	297.	124.	4188.5	64.719	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/05/68-12/10/75	3	39.	46.333	66.	34.	296.333	17.214	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	5	7.	6.2	8.	3.	4.7	2.168	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	5	283.	304.4	445.	193.	8694.8	93.246	**	**	**	**

** - Less 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: 3/20 to 4/30 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/70-06/08/76	6	6.6	6.917	17.	0.5	32.378	5.69	**	**	**	**
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	7	2.5	3.146	6.6	1.2	3.754	1.937	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	7	900.	1080.429	1850.	543.	294002.952	542.22	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/68-06/08/76	6	7.7	7.865	8.3	7.6	0.091	0.302	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/68-06/08/76	6	7.7	7.792	8.3	7.6	0.098	0.313	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/68-06/08/76	6	0.02	0.016	0.025	0.005	0.	0.008	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	156.	204.429	340.	113.	9184.286	95.835	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/11/68-12/04/74	3	844.	876.	1342.	442.	203268.	450.853	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/11/68-12/10/75	6	0.285	0.423	1.	0.01	0.157	0.396	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	7	169.	225.857	354.	152.	7707.81	87.794	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/05/68-12/10/75	3	64.	59.	72.	41.	259.	16.093	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	7	4.	5.286	10.	3.	8.905	2.984	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	7	284.	370.571	660.	118.	46733.286	216.179	**	**	**	**

** - Less 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: 5/01 to 7/31 - Station THRO0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/70-06/08/76	14	17.5	17.443	28.3	6.5	42.28	6.502	8.25	10.75	23.	26.65
00065	STAGE, STREAM (FEET)	10/01/68-06/08/76	16	2.75	3.337	8.5	1.3	3.915	1.979	1.412	1.725	4.408	6.638
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/68-12/10/75	23	1390.	1313.043	1835.	738.	148172.316	384.932	775.2	825.	1600.	1800.
00400	PH (STANDARD UNITS)	05/11/68-06/08/76	24	7.9	7.998	8.7	7.5	0.13	0.36	7.6	7.7	8.323	8.55
00400	CONVERTED PH (STANDARD UNITS)	05/11/68-06/08/76	24	7.9	7.879	8.7	7.5	0.144	0.38	7.6	7.7	8.322	8.55
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/68-06/08/76	24	0.013	0.013	0.032	0.002	0.	0.009	0.003	0.005	0.02	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	23	254.	344.348	2700.	112.	272067.237	521.601	126.	173.	292.	454.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/11/68-12/04/74	9	984.	848.333	1167.	472.	77757.75	278.851	472.	516.	1090.5	1167.
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/11/68-12/10/75	20	0.36	0.697	2.95	0.005	0.604	0.777	0.007	0.11	1.278	1.711
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/11/68-12/10/75	22	215.	241.227	376.	107.	6514.089	80.71	141.9	186.5	320.25	368.8
00910	CALCIUM (MG/L AS CACO3)	11/05/68-12/10/75	5	48.	51.4	81.	30.	347.3	18.636	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/11/68-12/10/75	22	5.	5.545	16.	0.	14.926	3.863	1.	2.75	8.	11.4
00945	SULFATE, TOTAL (MG/L AS SO4)	05/11/68-12/10/75	21	498.	460.238	875.	188.	36695.79	191.561	230.8	263.5	590.	735.2

** - 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

Station Inventory for Station: THRO0006

NPS Station ID: THRO0006 LAT/LON: 47.595837/-103.262505 Agency: 112WRD Date Created: / /
Location: LITTLE MISSOURI RIVER NR WATFORD CITY, ND FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06337000
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10110205 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10110205 RF1 Mile Point: 0.000 Distance from RF1: 24.10 On/Off RF1:
RF3 Index: 10130202095400.00 RF3 Mile Point: 0.55 Distance from RF3: 0.13 On/Off RF3:
Description:

Parameter Inventory for Station: THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	679	9.	10.865	27.	0.	76.826	8.765	0.5	1.5	18.3	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	133	13.	11.653	31.	-17.	119.684	10.94	4.	7.75	22.25	28.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	130	704.	700.738	755.	346.	1102.691	33.207	683.	698.75	708.25	714.
00032	CLOUD COVER (PERCENT)	10/26/82-11/21/91	33	15.	35.	100.	0.	1340.625	36.615	0.	0.	75.	93.
00035	WIND VELOCITY (MILES PER HOUR)	10/26/82-11/21/91	33	13.	12.364	32.	3.	47.551	6.896	5.	5.	15.	22.2
00060	FLOW, STREAM, MEAN DAILY CFS	10/03/71-09/27/73	37	344.	2088.189	37100.	12.	37713139.713	6141.102	37.4	65.5	1850.	4188.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	184	99.	886.908	27900.	0.	7297701.221	2701.426	9.	28.	356.75	2670.
00065	STAGE, STREAM (FEET)	05/02/83-06/07/85	11	1.01	1.687	4.62	0.47	2.489	1.578	0.49	0.57	2.75	4.608
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/23/74-04/11/78	29	220.	1725.552	12000.	4.	10268156.113	3204.396	20.	40.	1400.	6800.
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/11/76-03/30/94	85	400.	1783.762	14000.	0.	9057085.364	3009.499	5.72	39.5	2100.	5960.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	600	1630.	1650.173	4000.	400.	544118.023	737.644	700.	1070.	2207.5	2530.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	583	10.4	10.267	13.2	3.8	3.765	1.94	7.74	8.6	12.1	12.9
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	203	99.	95.468	109.	0.	189.042	13.749	88.	96.	100.	102.
00310	BOD, 5 DAY, 20 DEG C MG/L	04/23/74-04/23/74	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/11/76-08/24/82	22	110.	166.318	700.	17.	30418.799	174.41	31.6	42.5	215.	483.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	567	8.4	8.311	9.23	4.3	0.106	0.326	7.9	8.17	8.53	8.6
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	567	8.4	7.025	9.23	4.3	1.765	1.329	7.9	8.17	8.53	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	567	0.004	0.094	50.119	0.001	4.429	2.105	0.003	0.003	0.007	0.013
00403p	PH, LAB, STANDARD UNITS SU	11/11/80-08/23/95	58	8.2	8.152	8.6	7.	0.1	0.316	7.7	7.9	8.4	8.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	11/11/80-08/23/95	58	8.2	7.999	8.6	7.	0.124	0.352	7.7	7.9	8.4	8.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/80-08/23/95	58	0.006	0.01	0.1	0.003	0.	0.014	0.003	0.004	0.013	0.02
00405	CARBON DIOXIDE (MG/L AS CO2)	11/04/71-09/15/81	45	1.4	3.	20.	0.6	12.652	3.557	0.8	1.	3.4	8.28
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/04/71-08/01/90	79	254.	274.342	809.	0.	18238.587	135.05	110.	180.	359.	436.
00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	10/25/89-03/30/94	17	266.	298.059	731.	99.	23365.934	152.859	103.8	205.	373.	536.6
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/23/86-04/17/90	15	249.	240.267	830.	0.	48518.495	220.269	0.	0.	336.	584.
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	10/22/85-10/22/85	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/04/71-08/05/86	40	300.5	315.275	648.	130.	13956.358	118.137	151.9	226.25	413.75	469.
00445	CARBONATE ION (MG/L AS CO3)	11/04/71-08/05/86	38	0.	2.526	28.	0.	32.58	5.708	0.	0.	3.	11.2
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	10/23/86-04/17/90	15	0.	12.533	48.	0.	287.981	16.97	0.	0.	19.	48.
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/23/86-04/17/90	15	293.	267.733	915.	0.	59242.924	243.399	0.	0.	371.	660.6
00451	BICARBONATE,FIXED ENDPOINT TITR. (HCO3) LAB MG/L	04/17/90-04/17/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	04/11/89-03/30/94	20	10.5	10.7	36.	0.	126.537	11.249	0.	0.	18.	32.5
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	04/11/89-03/30/94	20	290.5	311.75	830.	50.	29362.934	171.356	120.7	220.	346.25	572.
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	09/11/74-09/12/79	4	0.04	0.795	3.1	0.	2.363	1.537	**	**	**	**
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	08/09/78-09/12/79	3	0.08	0.08	0.16	0.	0.006	0.08	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-09/15/81	55	1.7	2.939	20.	0.46	12.241	3.499	0.738	0.97	3.1	8.4
00602	NITROGEN, DISSOLVED (MG/L AS N)	09/12/79-09/15/81	18	1.05	1.839	6.3	0.59	2.192	1.481	0.725	0.843	2.525	4.23
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/78-10/22/85	30	1.2	2.556	19.	0.57	14.034	3.746	0.6	0.688	2.35	8.09

** - 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 time series plot

Parameter Inventory for Station: THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/10/79-09/15/81	17	0.96	1.162	2.6	0.5	0.321	0.567	0.524	0.715	1.6	2.04
00608p	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/79-03/30/94	65	0.06	0.098	0.54	0.	0.014	0.118	0.008	0.02	0.13	0.222
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/12/77-10/05/92	60	0.065	0.121	1.2	0.	0.042	0.206	0.01	0.023	0.108	0.304
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/22/85-03/30/94	31 ##	0.005	0.009	0.03	0.	0.	0.006	0.005	0.005	0.01	0.02
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/11/76-10/05/92	30	0.02	0.038	0.41	0.	0.005	0.072	0.01	0.02	0.033	0.059
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/04/71-10/22/85	7	0.23	0.516	1.8	0.23	0.346	0.589	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/11/76-09/09/80	20	0.275	0.539	2.4	0.	0.436	0.66	0.	0.02	0.915	1.57
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/12/77-08/28/91	35	0.74	0.96	3.1	0.31	0.364	0.603	0.416	0.58	1.2	1.9
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	04/11/78-09/15/81	29	0.36	1.763	18.	0.	13.454	3.668	0.	0.1	1.55	6.9
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-03/30/94	102	1.45	2.61	19.	0.	8.99	2.998	0.562	0.778	3.15	7.07
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-10/05/92	68	0.13	0.455	2.4	0.	0.381	0.618	0.01	0.025	0.615	1.6
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/12/79-03/30/94	66	0.25	0.486	3.2	0.	0.409	0.64	0.021	0.05	0.7	1.53
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/16/79-04/16/79	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/04/71-02/18/83	13	0.06	0.072	0.34	0.	0.009	0.096	0.	0.	0.105	0.264
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/74-03/30/94	106	0.22	1.561	37.	0.	18.233	4.27	0.02	0.048	1.3	3.73
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/77-03/30/94	82	0.02	0.026	0.45	0.	0.003	0.051	0.005	0.01	0.03	0.05
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/04/71-03/30/94	51	0.007	0.016	0.11	0.	0.	0.02	0.	0.005	0.02	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/23/74-09/15/81	27	18.	28.848	125.	1.6	782.64	27.976	10.46	13.	32.	69.4
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/12/77-08/11/81	21	10.	12.343	28.	5.4	33.438	5.783	6.	8.25	16.	21.4
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	10/12/77-05/12/81	16	1.4	3.175	12.	0.2	15.839	3.98	0.2	0.35	5.1	10.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/04/71-04/14/83	73	320.	322.315	750.	85.	25475.719	159.611	120.	190.	420.	518.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/04/71-03/11/81	59	40.	51.864	190.	0.	2705.568	52.015	0.	0.	79.	130.
00903	HARDNESS,NON-CARBONATE,FIXED ENDPT. TIT. LAB MG/L	10/13/80-04/14/83	19	18.	28.947	110.	0.	1102.386	33.202	0.	0.	57.	75.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	11/04/71-08/23/95	115	64.	62.922	160.	0.	953.546	30.88	27.	38.	82.	96.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/04/71-08/23/95	115	27.	31.517	95.	0.	361.843	19.022	11.	16.	44.	56.2
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/04/71-08/23/95	115	300.	302.643	800.	0.	22317.723	149.391	100.	210.	390.	494.
00931	SODIUM ADSORPTION RATIO	11/04/71-04/14/83	73	7.8	8.001	23.	2.8	9.533	3.088	4.24	6.2	9.45	11.6
00932	SODIUM, PERCENT	11/04/71-04/14/83	73	67.	67.507	89.	47.	69.781	8.354	57.4	61.5	72.	79.
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/16/79-09/09/80	10	395.	402.7	650.	97.	26204.011	161.877	113.3	297.5	525.	645.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	11/04/71-08/23/95	115	9.2	9.907	25.	0.	11.991	3.463	6.3	7.5	12.	14.
00940p	CHLORIDE,TOTAL IN WATER MG/L	11/04/71-08/23/95	115	10.	11.052	36.	0.	40.488	6.363	5.	7.	13.	18.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	11/04/71-08/23/95	115	610.	630.004	1500.	0.	98771.669	314.28	246.	390.	830.	1000.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/04/71-08/23/95	115	0.4	0.36	0.9	0.	0.019	0.137	0.2	0.3	0.4	0.5
00951	FLUORIDE, TOTAL (MG/L AS F)	10/11/76-09/09/80	21	1.4	1.805	5.2	0.3	2.178	1.476	0.3	0.55	2.9	4.56
00955p	SILICA, DISSOLVED (MG/L AS SI02)	11/04/71-03/30/94	113	9.2	9.504	45.	0.	17.977	4.24	6.04	7.55	11.	13.
01000p	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/74-08/23/95	58	1.	1.44	6.	0.5	1.036	1.018	0.5	1.	2.	2.1
01001	ARSENIC, SUSPENDED (UG/L AS AS)	04/23/74-08/24/82	20	4.	22.1	240.	0.	2855.016	53.432	0.05	1.25	20.75	54.5
01002	ARSENIC, TOTAL (UG/L AS AS)	04/23/74-08/24/82	38	9.5	30.632	240.	1.	2706.401	52.023	2.	2.75	33.25	106.
01005p	BARIUM, DISSOLVED (UG/L AS BA)	11/08/77-03/30/94	57	50.	65.877	300.	0.	3468.431	58.893	23.8	38.	61.5	112.
01006	BARIUM, SUSPENDED (UG/L AS BA)	11/08/77-08/24/82	14	100.	395.	2200.	0.	513965.385	716.914	0.	22.5	350.	2050.
01007	BARIUM, TOTAL (UG/L AS BA)	10/11/76-08/24/82	30	400.	625.	3000.	0.	536163.793	732.232	50.	100.	1025.	1850.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/26/82-08/28/91	34 ##	0.25	1.526	5.	0.25	4.211	2.052	0.25	0.25	4.1	5.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/11/76-09/09/80	20	10.	7.5	20.	0.	22.368	4.73	0.	5.	10.	10.
01020	BORON, DISSOLVED (UG/L AS B)	11/04/71-07/25/72	6	135.	176.667	320.	90.	11186.667	105.767	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	10/11/76-09/09/80	21	360.	344.286	510.	180.	8185.714	90.475	192.	275.	405.	466.
01025p	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/74-08/28/91	56 ##	0.5	0.759	6.	0.	1.027	1.014	0.	0.5	0.5	1.5
01026	CADMIUM, SUSPENDED (UG/L AS CD)	04/23/74-05/12/81	15	2.	3.7	19.	0.	24.529	4.953	0.	0.	5.	13.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/23/74-08/24/82	34 ##	1.5	4.985	20.	0.	33.568	5.794	0.	0.	10.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/74-08/28/91	55 ##	0.5	1.545	10.	0.	7.382	2.717	0.	0.5	1.	5.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	04/23/74-08/11/81	18	10.	35.444	250.	0.	4455.908	66.753	0.	0.	27.5	169.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/23/74-08/24/82	38	20.	72.974	440.	0.	10898.188	104.394	0.	10.	90.	241.
01035p	COBALT, DISSOLVED (UG/L AS CO)	04/23/74-03/30/94	65 ##	1.5	1.715	28.	0.	13.57	3.684	0.	0.5	1.5	2.
01036	COBALT, SUSPENDED (UG/L AS CO)	04/23/74-03/29/82	17	25.	40.059	300.	0.	4846.778	69.619	0.8	6.5	34.	119.2
01037	COBALT, TOTAL (UG/L AS CO)	04/23/74-08/24/82	38	50.	62.5	300.	0.	6367.446	79.796	1.	5.	56.25	204.
01040p	COPPER, DISSOLVED (UG/L AS CU)	04/23/74-08/28/91	56	5.5	8.018	36.	1.	49.618	7.044	2.	4.	10.75	16.2
01041	COPPER, SUSPENDED (UG/L AS CU)	04/23/74-08/24/82	22	20.	81.068	580.	0.	19337.817	139.06	0.3	7.125	94.75	279.
01042	COPPER, TOTAL (UG/L AS CU)	04/23/74-08/24/82	38	50.	145.	1000.	1.	45420.324	213.12	6.9	11.5	225.	432.
01044	IRON, SUSPENDED (UG/L AS FE)	08/09/78-08/24/82	12	9300.	59559.167	210000.	430.	6062833262.879	77864.198	442.	1207.5	139250.	198000.
01045	IRON, TOTAL (UG/L AS FE)	04/23/74-08/24/82	38	14300.	70980.526	570000.	450.	14495735821.337	120398.238	1323.	2600.	85250.	213000.
01046p	IRON, DISSOLVED (UG/L AS FE)	11/04/71-08/23/95	73	37.	552.274	25000.	0.	8899707.868	2983.238	3.8	20.	125.	372.
01049p	LEAD, DISSOLVED (UG/L AS PB)	04/23/74-08/23/95	58	2.	2.086	13.	0.	4.992	2.234	0.5	0.5	2.5	5.
01050	LEAD, SUSPENDED (UG/L AS PB)	04/23/74-08/24/82	19	47.5	71.553	500.	2.	14059.608	118.573	3.	8.	61.	250.
01051	LEAD, TOTAL (UG/L AS PB)	04/23/74-08/24/82	30	100.	102.8	500.	2.	14596.097	120.814	4.	9.75	102.5	295.

** - Less 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: THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/74-08/24/82	22	205.	1320.455	11000.	0.	6368471.212	2523.583	13.	67.5	1450.	4170.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/74-08/24/82	37	490.	2105.676	17000.	10.	12127530.781	3482.46	58.	105.	3050.	6320.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	11/04/71-08/23/95	72	6.	17.201	190.	0.	746.702	27.326	2.	5.	20.	40.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/26/82-08/23/95	45 ##	5.	5.722	20.	0.	13.722	3.704	3.	5.	5.	10.
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	10/11/76-09/09/80	21	4.	4.214	10.	0.	9.939	3.153	0.5	1.5	7.5	9.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/13/79-03/30/94	52	4.5	6.279	50.	0.	62.279	7.892	2.	3.	7.	10.
01066	NICKEL, SUSPENDED (UG/L AS NI)	11/13/79-08/24/82	9	12.	89.111	250.	1.	11509.361	107.282	1.	5.	215.	250.
01067	NICKEL, TOTAL (UG/L AS NI)	10/11/76-08/24/82	28	69.5	162.571	830.	2.	45341.291	212.935	5.9	14.5	225.	515.
01075p	SILVER, DISSOLVED (UG/L AS AG)	11/08/77-03/30/94	57 ##	0.5	0.421	1.	0.	0.052	0.227	0.	0.5	0.5	0.5
01076	SILVER, SUSPENDED (UG/L AS AG)	11/08/77-08/11/81	10	0.	0.6	5.	0.	2.489	1.578	0.	0.	0.25	4.6
01077	SILVER, TOTAL (UG/L AS AG)	10/11/76-08/24/82	31 ##	0.5	2.629	10.	0.	17.016	4.125	0.	0.	4.	10.
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/26/82-08/23/95	45	440.	508.444	1600.	0.	78399.798	280.	206.	295.	685.	846.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/26/82-03/30/94	43 ##	3.	3.558	28.	0.	15.3	3.912	2.	3.	3.	4.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	04/23/74-08/28/91	56	10.	15.205	60.	0.	201.789	14.205	2.55	5.	22.25	40.
01091	ZINC, SUSPENDED (UG/L ZN)	04/23/74-08/24/82	19	50.	283.158	1900.	0.	240356.14	490.261	0.	0.	310.	1100.
01092	ZINC, TOTAL (UG/L AS ZN)	04/23/74-08/24/82	38	140.	418.158	2600.	10.	354372.191	595.292	20.	30.	645.	1240.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/11/76-09/09/80	20	1850.	31720.	220000.	80.	3312197084.211	57551.691	206.	587.5	46250.	119000.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/26/82-03/30/94	43	40.	350.465	9800.	0.	2251653.35	1500.551	5.	20.	120.	378.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/26/82-08/23/95	45	45.	47.644	110.	0.	473.416	21.758	21.	32.	64.5	75.2
01132	LITHIUM, TOTAL (UG/L AS LI)	10/11/76-09/09/80	21	90.	127.857	390.	5.	8576.429	92.609	38.	70.	165.	300.
01145p	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/74-08/23/95	67	1.	1.582	12.	0.	3.058	1.749	0.5	0.5	2.	3.2
01146	SELENIUM, SUSPENDED (UG/L AS SE)	04/23/74-08/24/82	21	0.	0.571	3.	0.	1.057	1.028	0.	0.	1.	2.8
01147	SELENIUM, TOTAL (UG/L AS SE)	04/23/74-08/24/82	38	2.	2.461	9.	0.	5.343	2.311	0.5	0.875	3.25	6.1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/23/74-09/13/76	12	140.	947.917	7900.	8.	5095284.629	2257.274	9.5	28.25	395.	6130.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/23/74-09/13/76	12	2.142	2.155	3.898	0.903	0.777	0.882	0.966	1.416	2.596	3.719
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			142.991								
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	73	70.	238.26	6000.	1.	545310.973	738.452	17.	36.	155.	375.4
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	73	1.845	1.846	3.778	0.	0.424	0.651	1.226	1.556	2.188	2.574
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			70.12								
31673p	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	72	75.	220.167	5000.	1.	381917.183	617.994	20.	47.	147.5	538.
31673p	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	72	1.875	1.895	3.699	0.	0.329	0.574	1.301	1.672	2.169	2.731
31673p	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			78.598								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/23/74-10/11/76	14	104.	1320.	16000.	18.	17941776.769	4235.773	19.	25.75	272.5	8590.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	04/23/74-10/11/76	14	1.989	2.1	4.204	1.255	0.642	0.802	1.278	1.411	2.435	3.638
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			125.956								
39025	SIMAZINE,COULSON CONDUCTIVITY,WATER SAMPLE(UG/L)	08/16/76-08/09/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	03/29/82-05/11/82	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39046	SIMAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/11/89-03/30/94	20	270.	291.9	740.	98.	21390.832	146.256	108.7	205.	330.	486.4
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	03/29/82-05/11/82	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/10/81-05/11/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	02/11/76-05/11/82	12 ##	0.	0.002	0.01	0.	0.	0.003	0.	0.	0.004	0.009
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	02/11/76-05/11/82	12 ##	0.	0.008	0.05	0.	0.	0.019	0.	0.	0.	0.05
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	11/08/76-05/11/82	6 ##	0.	0.083	0.5	0.	0.042	0.204	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	03/29/82-05/11/82	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/10/81-05/11/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.083	0.5	0.	0.038	0.195	0.	0.	0.	0.5
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/08/76-05/11/82	6 ##	0.	0.833	5.	0.	4.167	2.041	**	**	**	**

** - Less 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: THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.001	0.005	0.	0.	0.002	0.	0.	0.	0.005
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/08/76-05/11/82	6 ##	0.	0.008	0.05	0.	0.	0.02	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	11/08/76-11/08/77	2	2.83	2.83	4.57	1.09	6.055	2.461	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	11/08/77-05/11/82	9 ##	0.	0.011	0.05	0.	0.	0.022	0.	0.	0.025	0.05
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/07/78-05/11/82	4 ##	0.	0.125	0.5	0.	0.063	0.25	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	02/11/76-08/09/78	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	8 ##	0.	0.006	0.04	0.	0.	0.014	**	**	**	**
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	8 ##	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	03/29/82-05/11/82	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/10/81-05/11/82	2 ##	0.025	0.025	0.05	0.	0.001	0.035	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	8 ##	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/08/77	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	02/11/76-05/11/82	12 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.004
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	11/08/76-11/13/79	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	07/17/74-09/15/81	34	6050.	52566.647	900000.	0.245	91086571.569	156815.454	30.	2725.	35000.	84000.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/04/71-08/23/95	114	1230.	1274.351	3150.	0.	377303.327	614.25	523.	839.	1605.	2055.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/04/71-04/14/83	72	1280.	1348.444	2930.	398.	343722.476	586.278	549.	935.25	1670.	2268.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/04/71-10/26/82	70	273.	935.897	9830.	13.7	2665643.36	1632.68	44.32	102.175	883.25	2846.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/04/71-02/18/83	71	1.8	1.861	4.28	0.6	0.686	0.829	0.762	1.24	2.33	3.09
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/09/74-10/07/93	80	98.	91.888	100.	0.	269.418	16.414	72.2	94.	99.75	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/25/72-06/16/82	7	72.	64.143	78.	46.	152.81	12.362	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/71-06/16/82	27	70.	67.074	94.	28.	373.533	19.327	36.2	50.	86.	89.6
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	03/29/82-06/16/82	2	66.	66.	71.	61.	50.	7.071	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/25/72-06/16/82	20	93.	89.95	100.	59.	119.418	10.928	64.8	89.25	95.75	99.9
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/29/82-06/16/82	3	98.	89.333	99.	71.	252.333	15.885	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/03/71-06/16/82	24	98.	93.375	100.	71.	77.81	8.821	78.	85.5	100.	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/03/71-06/16/82	17	99.	96.118	100.	79.	35.485	5.957	83.8	94.5	100.	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/29/71-06/16/82	12	100.	99.333	100.	96.	1.879	1.371	96.3	99.25	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	03/16/72-06/16/82	4	100.	100.	100.	100.	0.	0.	**	**	**	**
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	03/29/82-06/16/82	2	100.	100.	100.	100.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/27/90-10/05/92	9	0.02	0.019	0.05	0.005	0.	0.014	0.005	0.005	0.025	0.05
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	11/08/76-09/14/77	3	2060.	1942.	3766.	0.	3556132.	1885.771	**	**	**	**
70955	CHLOROPHYLL-A,PERIDHYTON UG/L,CHROMO-SPECTRO	11/08/76-11/08/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
70956	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-SPECTRO	11/08/76-11/08/76	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	07/12/77-09/12/79	5	0.	0.012	0.06	0.	0.001	0.027	**	**	**	**
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	07/12/77-09/12/79	5	0.	0.002	0.008	0.	0.	0.004	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	03/27/85-03/27/85	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/16/79-01/20/81	14	0.09	0.151	0.6	0.	0.031	0.176	0.	0.018	0.225	0.5
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/10/79-10/22/85	27	0.14	0.197	0.7	0.	0.038	0.196	0.	0.06	0.27	0.632
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/04/71-07/25/72	6	1.	1.317	2.9	1.	0.602	0.776	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/16/79-10/22/85	34	0.535	5.453	110.	0.	351.889	18.759	0.045	0.135	3.325	8.45
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-09/15/81	55	7.3	12.995	89.	2.	239.027	15.46	3.28	4.3	14.	37.2
71890p	MERCURY, DISSOLVED (UG/L AS HG)	04/23/74-08/23/95	58 ##	0.05	0.128	0.6	0.	0.019	0.137	0.05	0.05	0.2	0.3
71895	MERCURY, SUSPENDED (UG/L AS HG)	04/23/74-08/24/82	20	0.1	0.21	1.1	0.	0.083	0.288	0.	0.	0.4	0.67
71900	MERCURY, TOTAL (UG/L AS HG)	04/23/74-08/24/82	38	0.25	0.458	2.4	0.05	0.244	0.494	0.05	0.175	0.625	1.21
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	445	1.	1.265	5.7	0.	1.032	1.016	0.3	0.5	1.65	2.7

** - 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 time series plot

Parameter Inventory for Station: THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/71-10/07/93	106	1266.	4606.16	40400.	34.	58466502.269	7646.339	91.8	185.	5060.	13650.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/03/71-03/29/82	63	124.	45040.437	695999.	0.7617723479655.291		133129.56	2.46	9.8	8740.	152800.
80157	BED MATERIAL FALL DIAMETER, % FINER THAN .004MM	11/28/73-11/28/73	1	5.	5.	5.	5.	0.	0.	**	**	**	**
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	07/25/72-10/11/76	22	3.5	5.045	29.	0.	36.236	6.02	1.	2.	6.5	9.7
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	07/25/72-06/21/78	23	11.	13.348	60.	4.	142.237	11.926	4.	7.	15.	26.2
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	07/25/72-06/21/78	23	61.	63.304	95.	42.	218.403	14.778	45.4	51.	76.	88.4
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	07/25/72-06/21/78	23	87.	86.348	100.	64.	81.328	9.018	72.8	80.	94.	98.
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	07/25/72-10/11/76	22	94.	92.136	99.	71.	48.409	6.958	83.	87.5	97.25	99.
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	06/21/78-08/30/83	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/25/72-10/11/76	22	96.	94.273	100.	76.	33.827	5.816	86.6	90.75	98.25	99.7
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/25/72-10/11/76	20	98.	95.85	100.	82.	19.924	4.464	90.1	94.25	98.75	100.
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	07/25/72-10/11/76	17	99.	97.471	99.	90.	6.14	2.478	93.2	96.5	99.	99.
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	07/25/72-10/11/76	17	100.	99.176	100.	95.	1.904	1.38	96.6	99.	100.	100.
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	01/16/73-10/11/76	7	100.	100.	100.	100.	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/10/81-05/11/82	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	03/11/81-07/14/81	5	6.3	7.4	11.	4.	8.245	2.871	**	**	**	**
82130	ICE, THICKNESS IN FEET	05/02/83-11/21/91	31	0.	0.153	2.	0.	0.253	0.503	0.	0.	0.	0.45
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	03/29/82-05/11/82	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: THRO0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	29	20	0.69	15	7	0.47	1	1	1.00	4	4	1.00	9	8	0.89
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	85	59	0.69	44	25	0.57	5	4	0.80	17	14	0.82	19	16	0.84
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	583	1	0.00	304	1	0.00	30	0	0.00	113	0	0.00	136	0	0.00
00400	PH	Other-Hi Lim.	9.	567	1	0.00	284	0	0.00	32	1	0.03	112	0	0.00	139	0	0.00
		Other-Lo Lim.	6.5	566 &	0	0.00	283	0	0.00	32	0	0.00	112	0	0.00	139	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	58	0	0.00	27	0	0.00	5	0	0.00	12	0	0.00	14	0	0.00
		Other-Lo Lim.	6.5	58	0	0.00	27	0	0.00	5	0	0.00	12	0	0.00	14	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	31	0	0.00	14	0	0.00	3	0	0.00	7	0	0.00	7	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	30	0	0.00	16	0	0.00	2	0	0.00	5	0	0.00	7	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	7	0	0.00	5	0	0.00							2	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	20	0	0.00	11	0	0.00				4	0	0.00	5	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	68	0	0.00	38	0	0.00	4	0	0.00	9	0	0.00	17	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	66	0	0.00	33	0	0.00	5	0	0.00	13	0	0.00	15	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	115	0	0.00	61	0	0.00	7	0	0.00	19	0	0.00	28	0	0.00
		Drinking Water	250.	115	0	0.00	61	0	0.00	7	0	0.00	19	0	0.00	28	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	115	104	0.90	61	58	0.95	7	4	0.57	19	14	0.74	28	28	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	115	0	0.00	61	0	0.00	7	0	0.00	19	0	0.00	28	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	21	2	0.10	12	1	0.08				4	0	0.00	5	1	0.20
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	50.	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	20	0	0.00	12	0	0.00				4	0	0.00	4	0	0.00
		Drinking Water	50.	20	2	0.10	12	1	0.08				4	0	0.00	4	1	0.25
01002	ARSENIC, TOTAL	Fresh Acute	360.	38	0	0.00	22	0	0.00				7	0	0.00	9	0	0.00
		Drinking Water	50.	38	7	0.18	22	4	0.18				7	1	0.14	9	2	0.22
01005	BARIUM, DISSOLVED	Drinking Water	2000.	57	0	0.00	30	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
01006	BARIUM, SUSPENDED	Drinking Water	2000.	14	1	0.07	10	1	0.10				2	0	0.00	2	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	30	2	0.07	18	2	0.11				5	0	0.00	7	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	34	0	0.00	16	0	0.00	3	0	0.00	8	0	0.00	7	0	0.00
		Drinking Water	4.	26 &	0	0.00	9	0	0.00	3	0	0.00	7	0	0.00	7	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	20	0	0.00	11	0	0.00				4	0	0.00	5	0	0.00
		Drinking Water	4.	14 &	11	0.79	7	6	0.86				3	2	0.67	4	3	0.75
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	56	2	0.04	30	1	0.03	3	0	0.00	12	0	0.00	11	1	0.09
		Drinking Water	5.	56	2	0.04	30	1	0.03	3	0	0.00	12	0	0.00	11	1	0.09
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	11 &	2	0.18	7	1	0.14				1	0	0.00	3	1	0.33
		Drinking Water	5.	13 &	2	0.15	8	1	0.13				2	0	0.00	3	1	0.33

& - 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: THRO0006

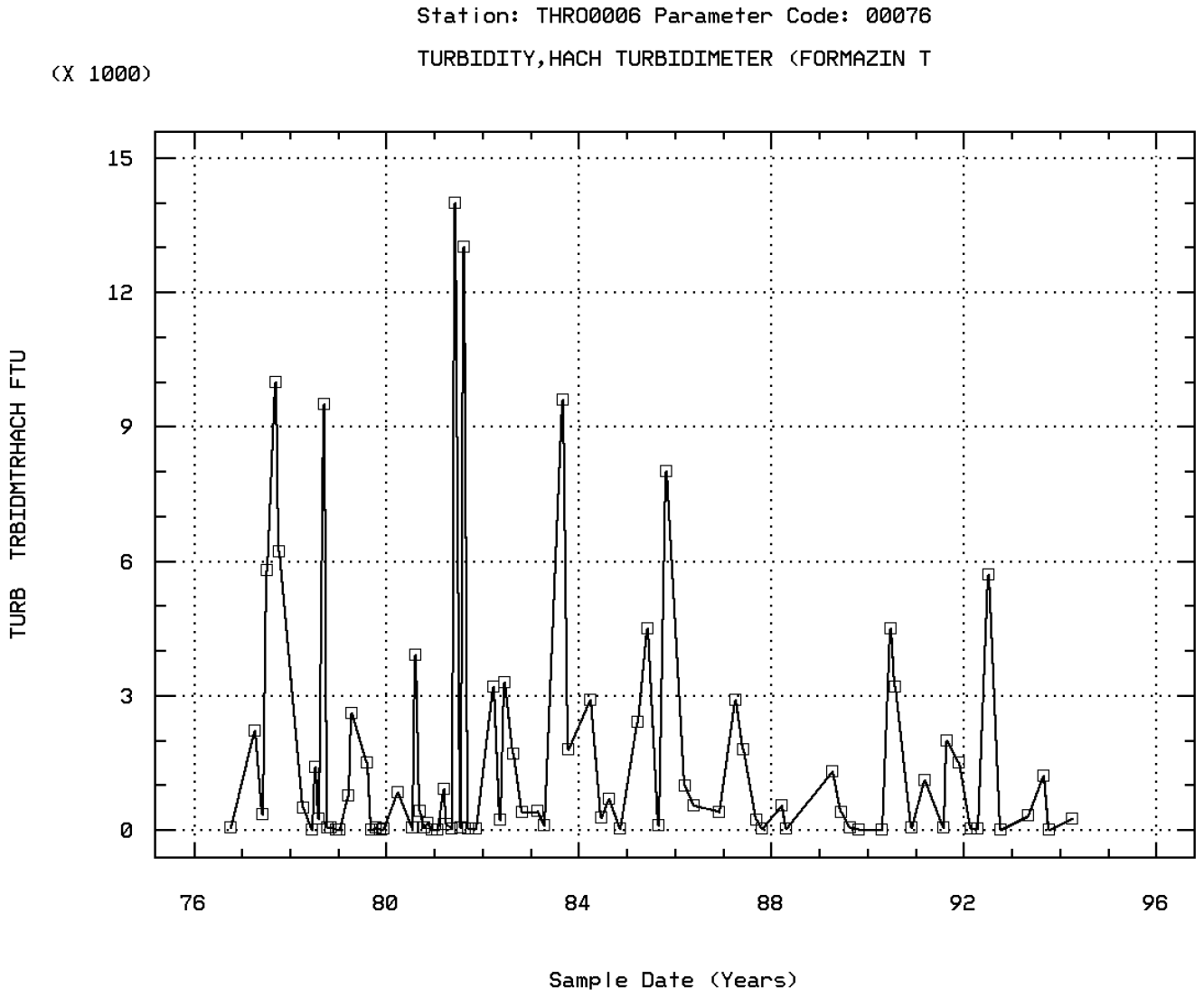
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	23 &	3	0.13	14	1	0.07				3	0	0.00	6	2	0.33
		Drinking Water	5.	23 &	3	0.13	14	1	0.07				3	0	0.00	6	2	0.33
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	55	0	0.00	30	0	0.00	3	0	0.00	11	0	0.00	11	0	0.00
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	18	2	0.11	12	1	0.08				3	0	0.00	3	1	0.33
01034	CHROMIUM, TOTAL	Drinking Water	100.	38	8	0.21	22	5	0.23				7	1	0.14	9	2	0.22
01040	COPPER, DISSOLVED	Fresh Acute	18.	56	5	0.09	30	1	0.03	3	0	0.00	12	2	0.17	11	2	0.18
		Drinking Water	1300.	56	0	0.00	30	0	0.00	3	0	0.00	12	0	0.00	11	0	0.00
01041	COPPER, SUSPENDED	Fresh Acute	18.	22	13	0.59	14	9	0.64				4	2	0.50	4	2	0.50
		Drinking Water	1300.	22	0	0.00	14	0	0.00				4	0	0.00	4	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	38	27	0.71	22	13	0.59				7	7	1.00	9	7	0.78
		Drinking Water	1300.	38	0	0.00	22	0	0.00				7	0	0.00	9	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	15.	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
01050	LEAD, SUSPENDED	Fresh Acute	82.	19	4	0.21	13	3	0.23				2	0	0.00	4	1	0.25
		Drinking Water	15.	13 &	6	0.46	10	5	0.50							3	1	0.33
01051	LEAD, TOTAL	Fresh Acute	82.	21 &	8	0.38	13	4	0.31				3	2	0.67	5	2	0.40
		Drinking Water	15.	21 &	11	0.52	13	6	0.46				3	3	1.00	5	2	0.40
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	52	0	0.00	26	0	0.00	4	0	0.00	11	0	0.00	11	0	0.00
		Drinking Water	100.	52	0	0.00	26	0	0.00	4	0	0.00	11	0	0.00	11	0	0.00
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	9	0	0.00	6	0	0.00				1	0	0.00	2	0	0.00
		Drinking Water	100.	9	3	0.33	6	2	0.33				1	1	1.00	2	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	28	0	0.00	16	0	0.00				5	0	0.00	7	0	0.00
		Drinking Water	100.	28	12	0.43	16	7	0.44				5	3	0.60	7	2	0.29
01075	SILVER, DISSOLVED	Fresh Acute	4.1	57	0	0.00	30	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	100.	57	0	0.00	30	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
01076	SILVER, SUSPENDED	Fresh Acute	4.1	9 &	0	0.00	7	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	100.	10	0	0.00	8	0	0.00				1	0	0.00	1	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	24 &	0	0.00	15	0	0.00				4	0	0.00	5	0	0.00
		Drinking Water	100.	31	0	0.00	19	0	0.00				5	0	0.00	7	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	56	0	0.00	30	0	0.00	3	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	5000.	56	0	0.00	30	0	0.00	3	0	0.00	12	0	0.00	11	0	0.00
01091	ZINC, SUSPENDED	Fresh Acute	120.	19	7	0.37	13	4	0.31				3	1	0.33	3	2	0.67
		Drinking Water	5000.	19	0	0.00	13	0	0.00				3	0	0.00	3	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	38	19	0.50	22	9	0.41				7	5	0.71	9	5	0.56
		Drinking Water	5000.	38	0	0.00	22	0	0.00				7	0	0.00	9	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	67	0	0.00	35	0	0.00	5	0	0.00	14	0	0.00	13	0	0.00
		Drinking Water	50.	67	0	0.00	35	0	0.00	5	0	0.00	14	0	0.00	13	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	21	0	0.00	13	0	0.00				4	0	0.00	4	0	0.00
		Drinking Water	50.	21	0	0.00	13	0	0.00				4	0	0.00	4	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	38	0	0.00	22	0	0.00				7	0	0.00	9	0	0.00
		Drinking Water	50.	38	0	0.00	22	0	0.00				7	0	0.00	9	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	12	5	0.42	7	2	0.29							5	3	0.60
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	73	14	0.19	41	7	0.17	5	1	0.20	10	2	0.20	17	4	0.24
39025	SIMAZINE, COULSON CONDUCTIVITY WATER SAM	Drinking Water	4.	4	0	0.00	4	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	0.2	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	2.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	12	0	0.00	10	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	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	2.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	3.	12	0	0.00	10	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

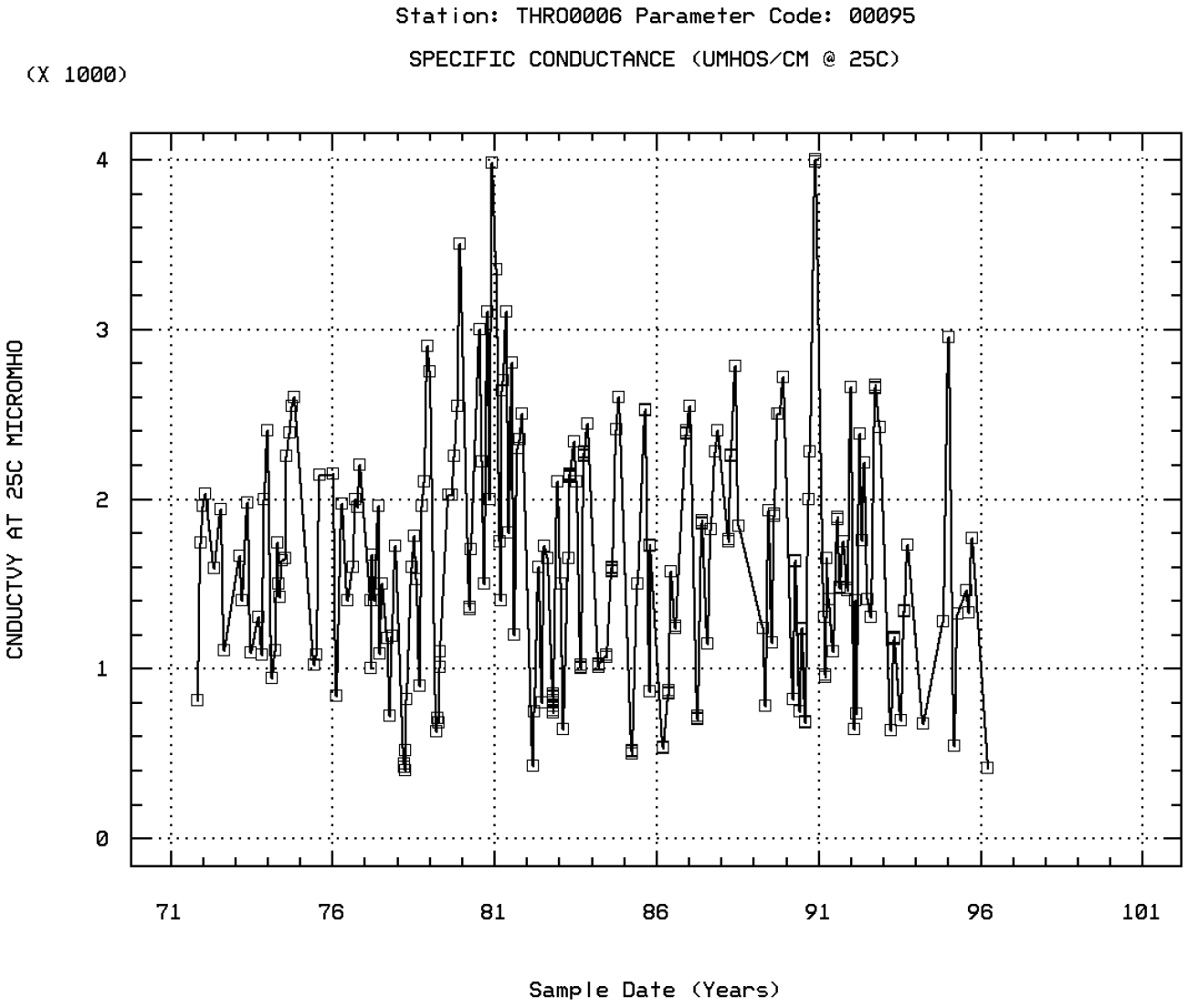
EPA Water Quality Criteria Analysis for Station: THRO0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	0.4	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	0.2	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	5	0	0.00	5	0	0.00									
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	8	0	0.00	6	0	0.00				1	0	0.00	1	0	0.00
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	8	0	0.00	6	0	0.00				1	0	0.00	1	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	6	0	0.00	4	0	0.00							2	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	2.	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	20	0	0.00	13	0	0.00				3	0	0.00	4	0	0.00
		Drinking Water	2.	20	0	0.00	13	0	0.00				3	0	0.00	4	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	38	1	0.03	22	1	0.05				7	0	0.00	9	0	0.00
		Drinking Water	2.	38	1	0.03	22	1	0.05				7	0	0.00	9	0	0.00

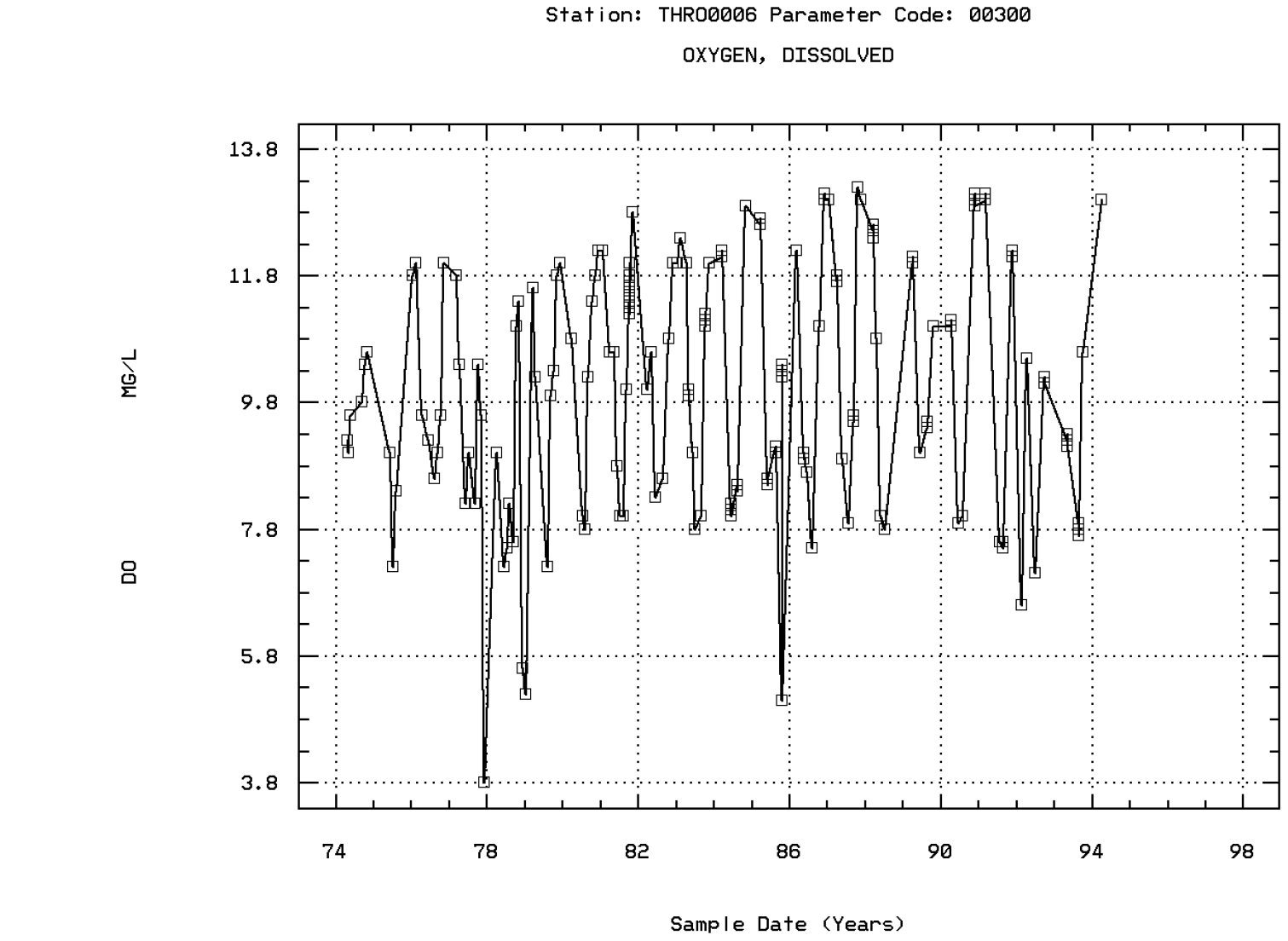
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



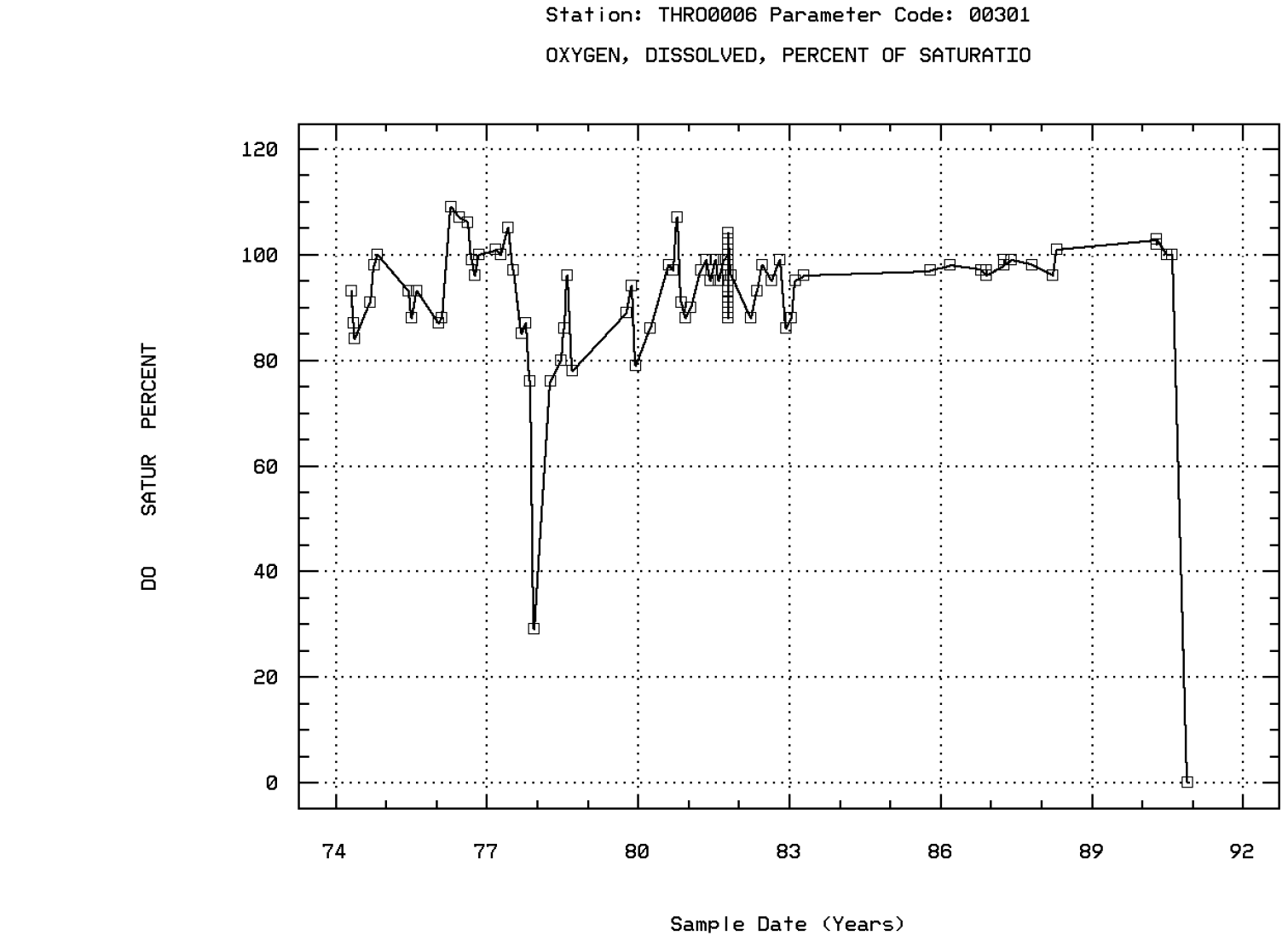
LITTLE MISSOURI RIVER NR WATFORD CITY,



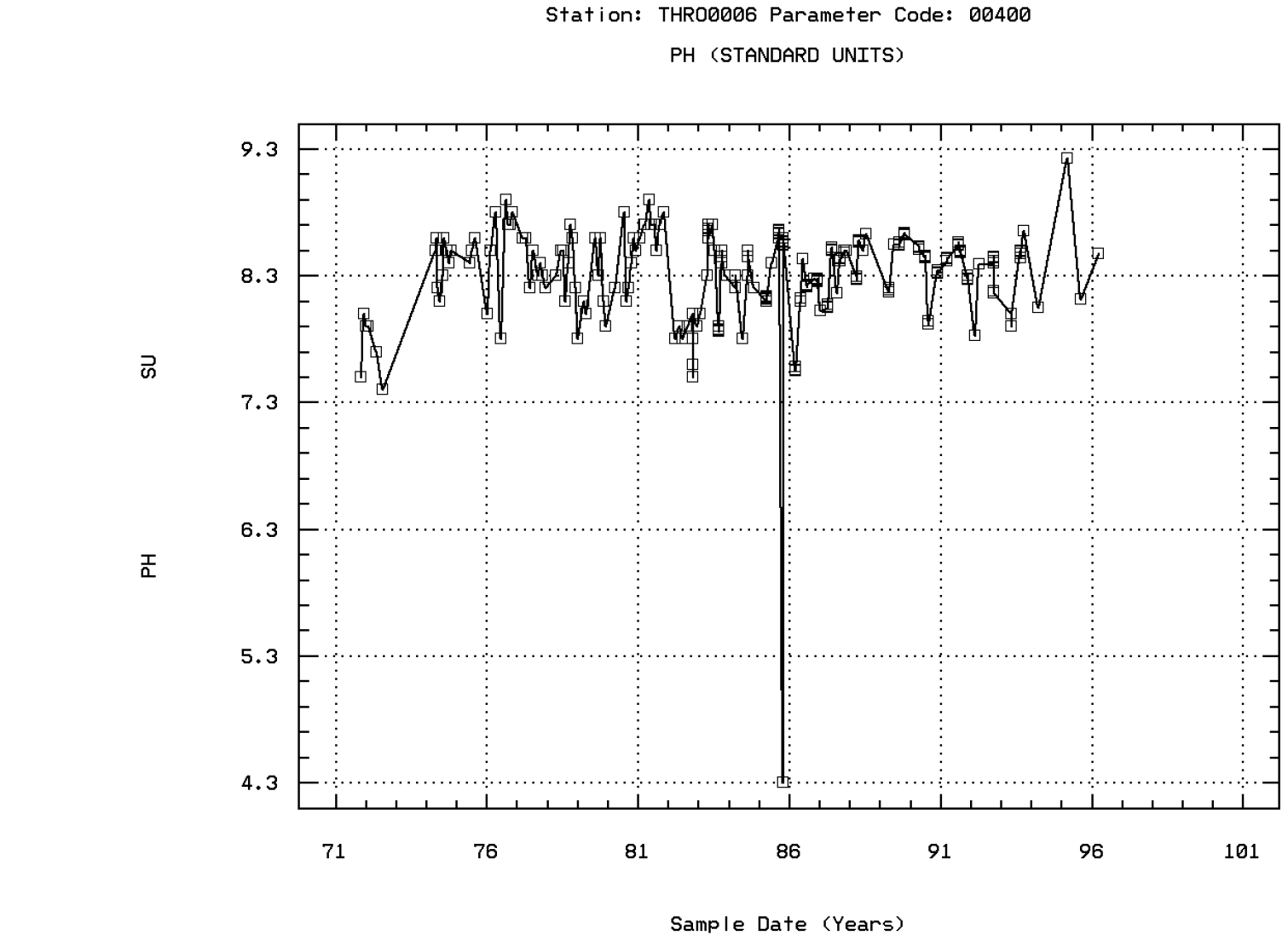
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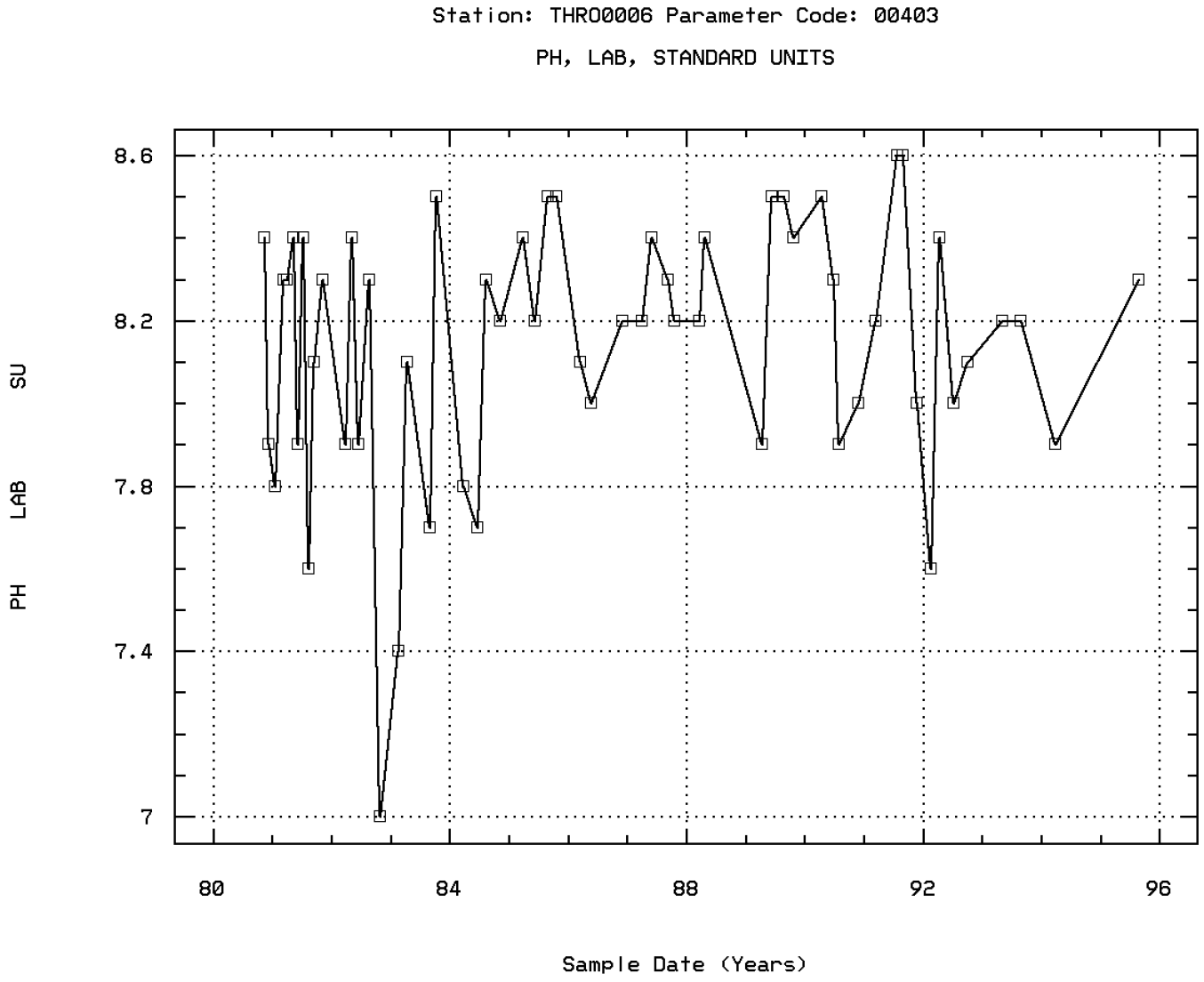
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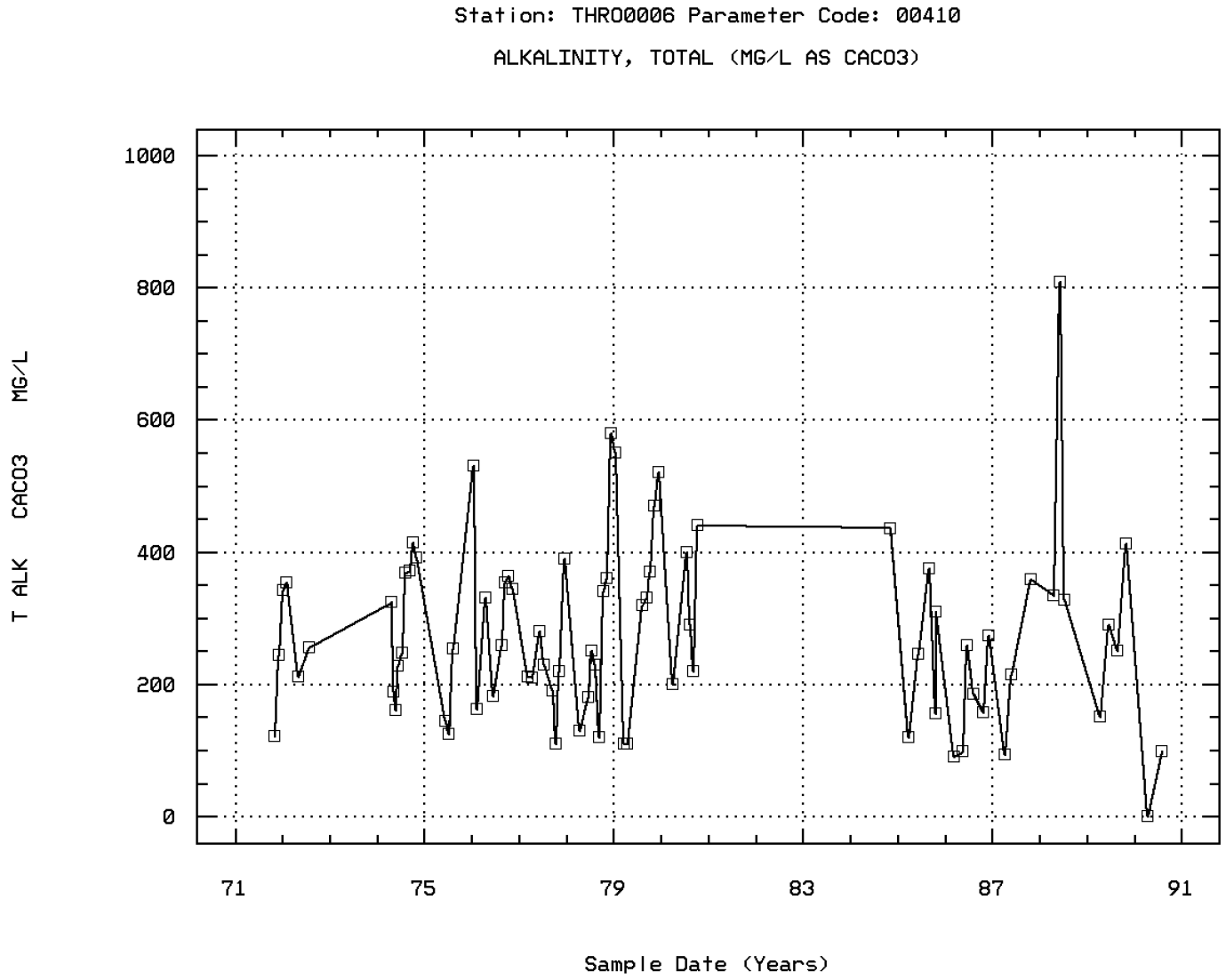
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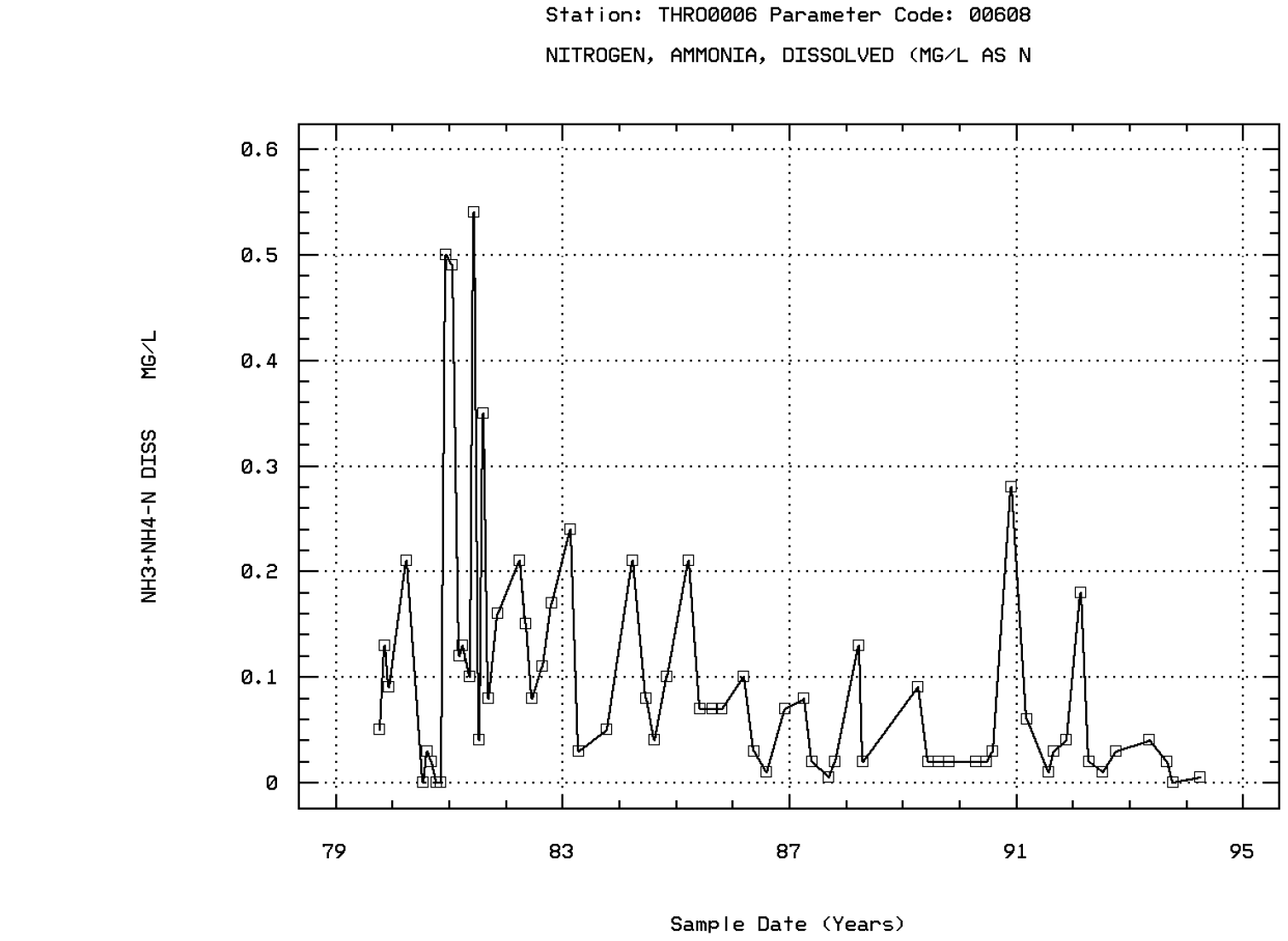
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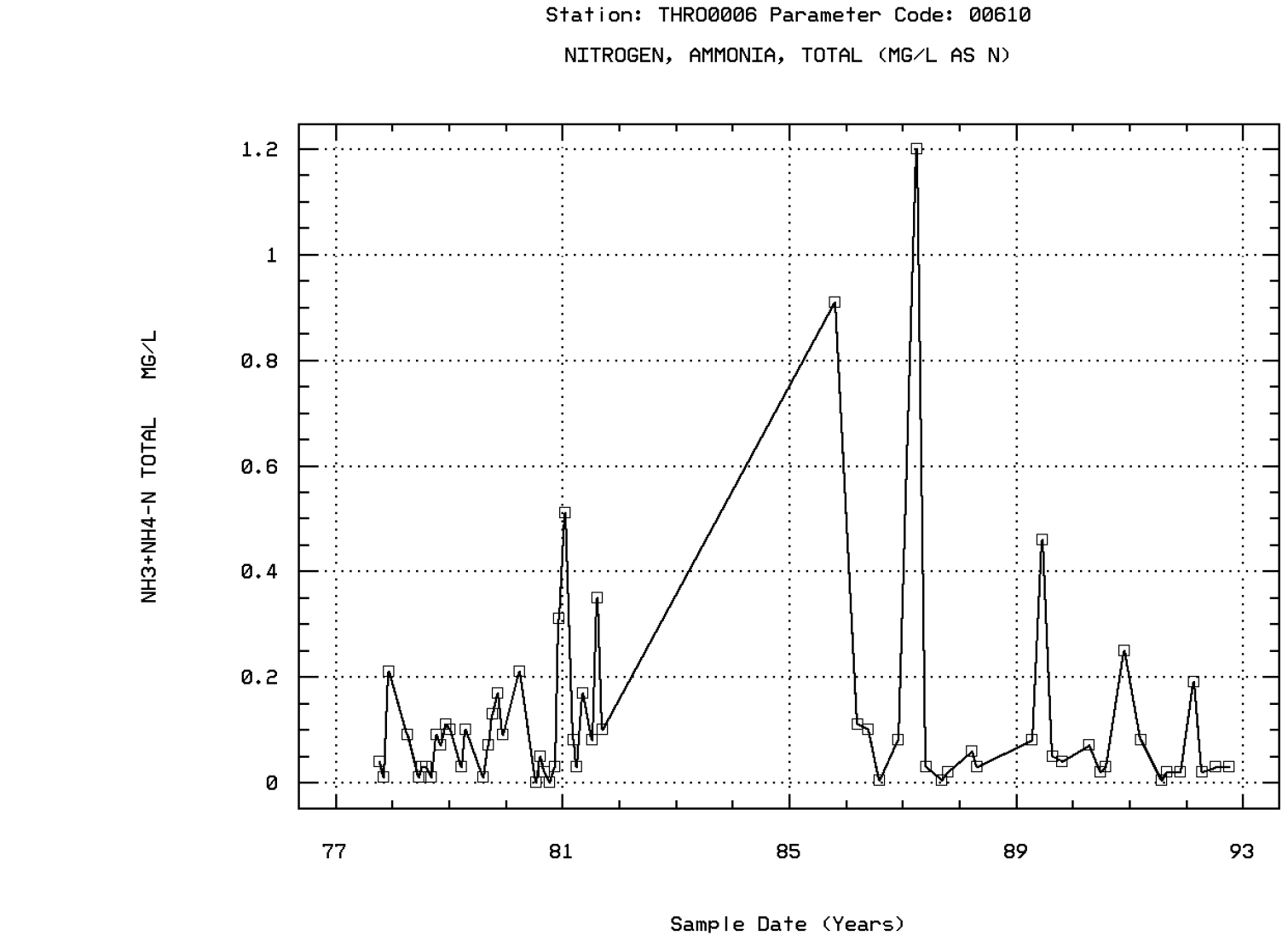
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LITTLE MISSOURI RIVER NR WATFORD CITY,



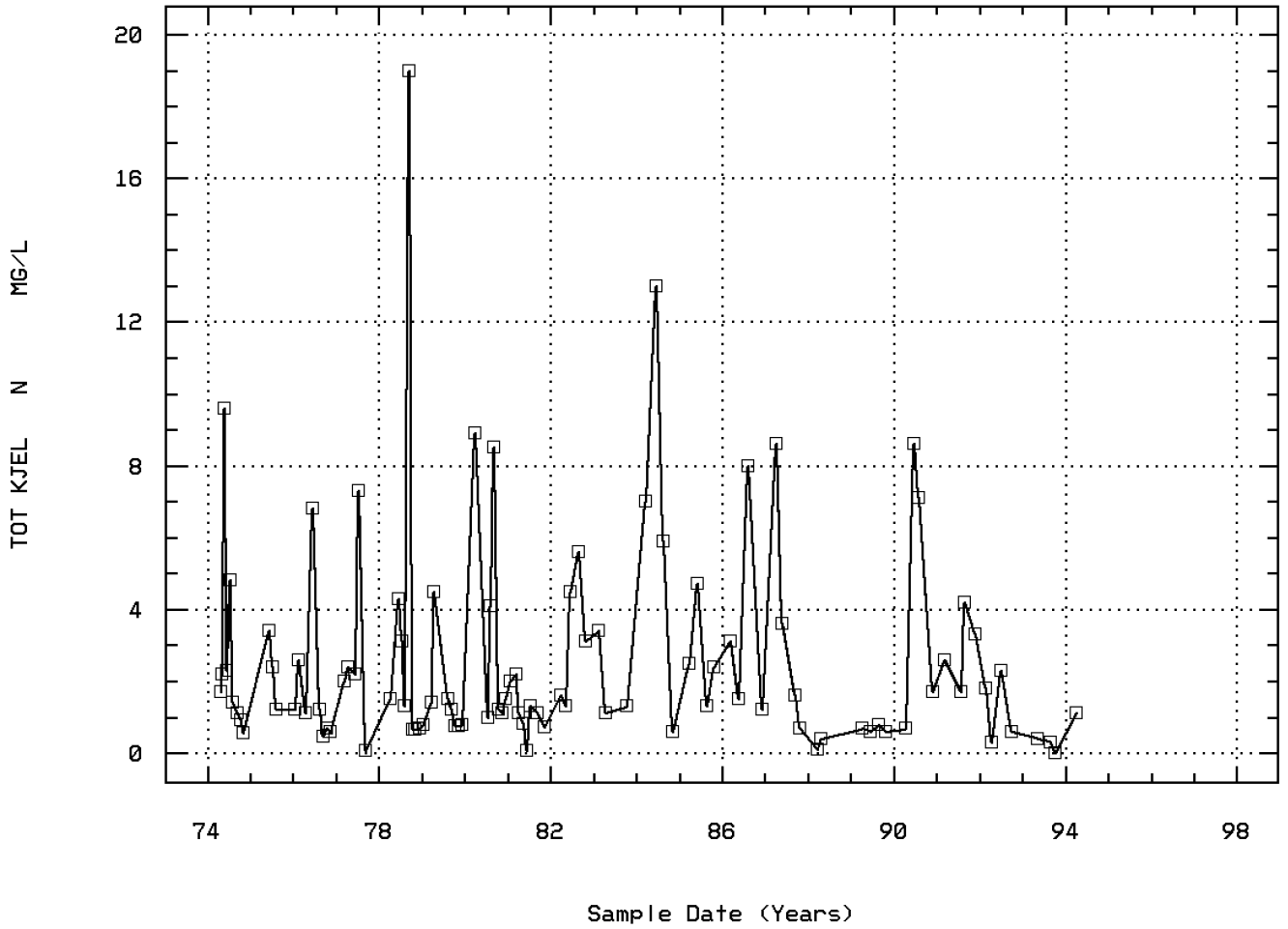
LITTLE MISSOURI RIVER NR WATFORD CITY,



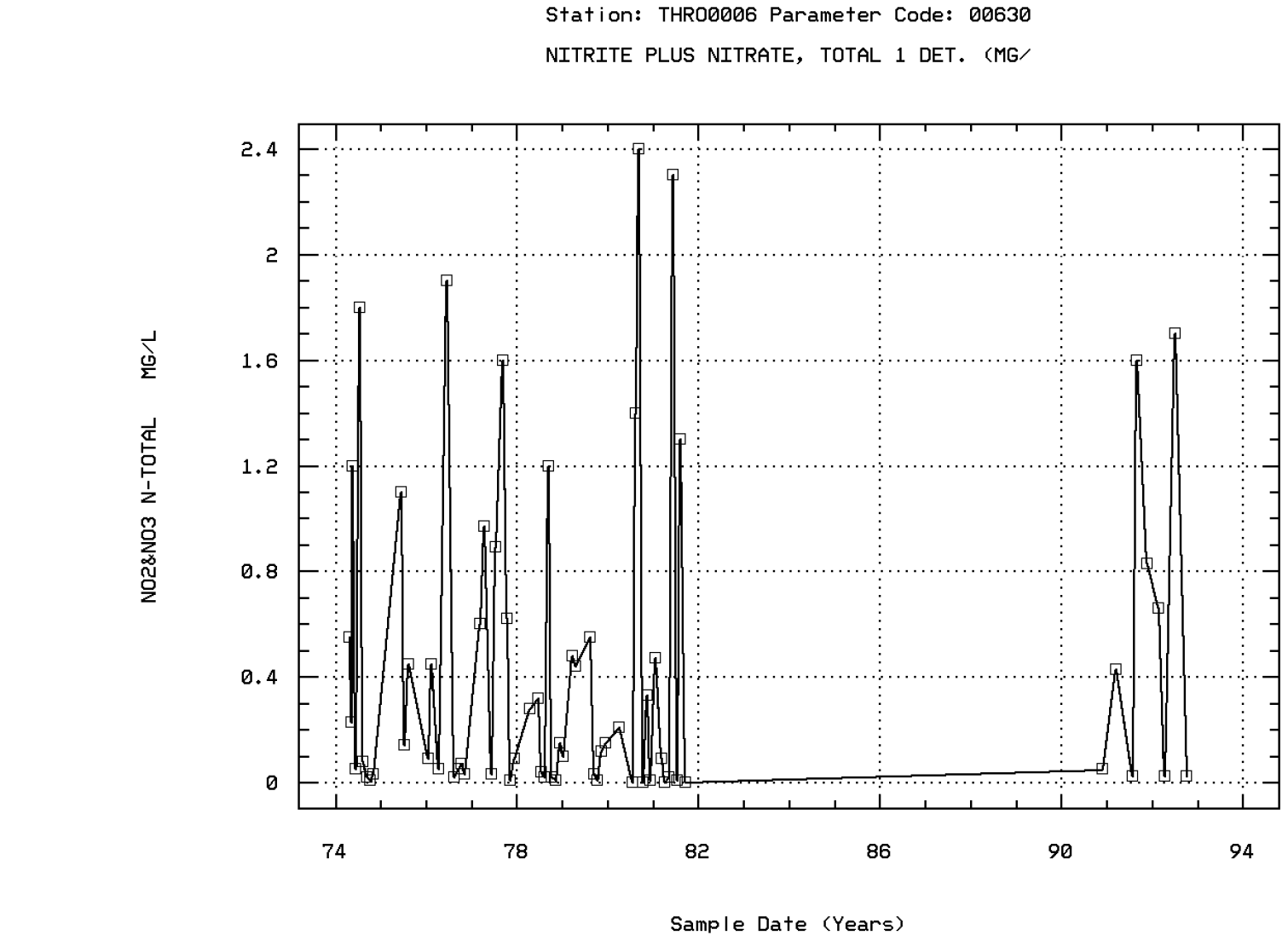
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 00625

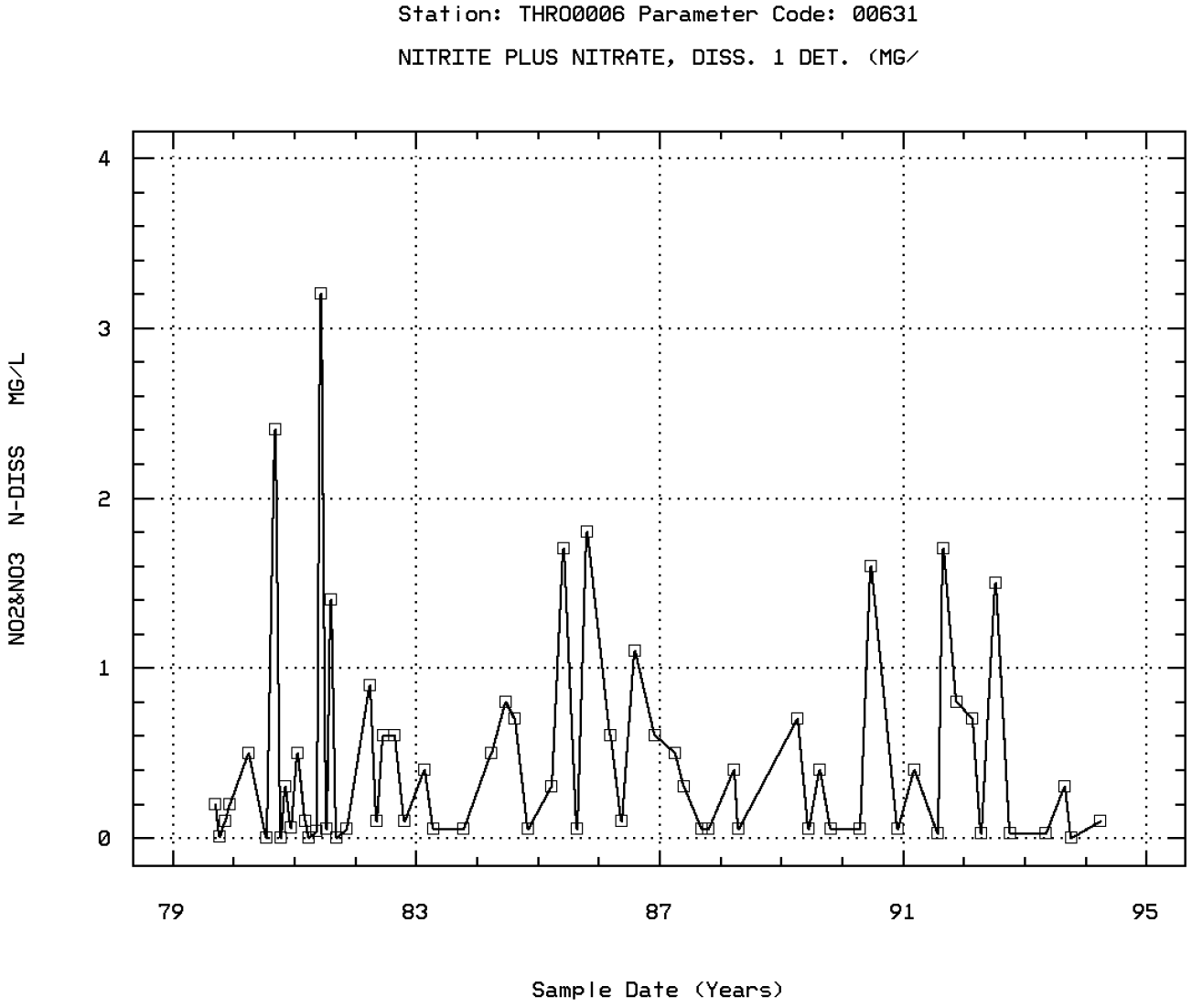
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



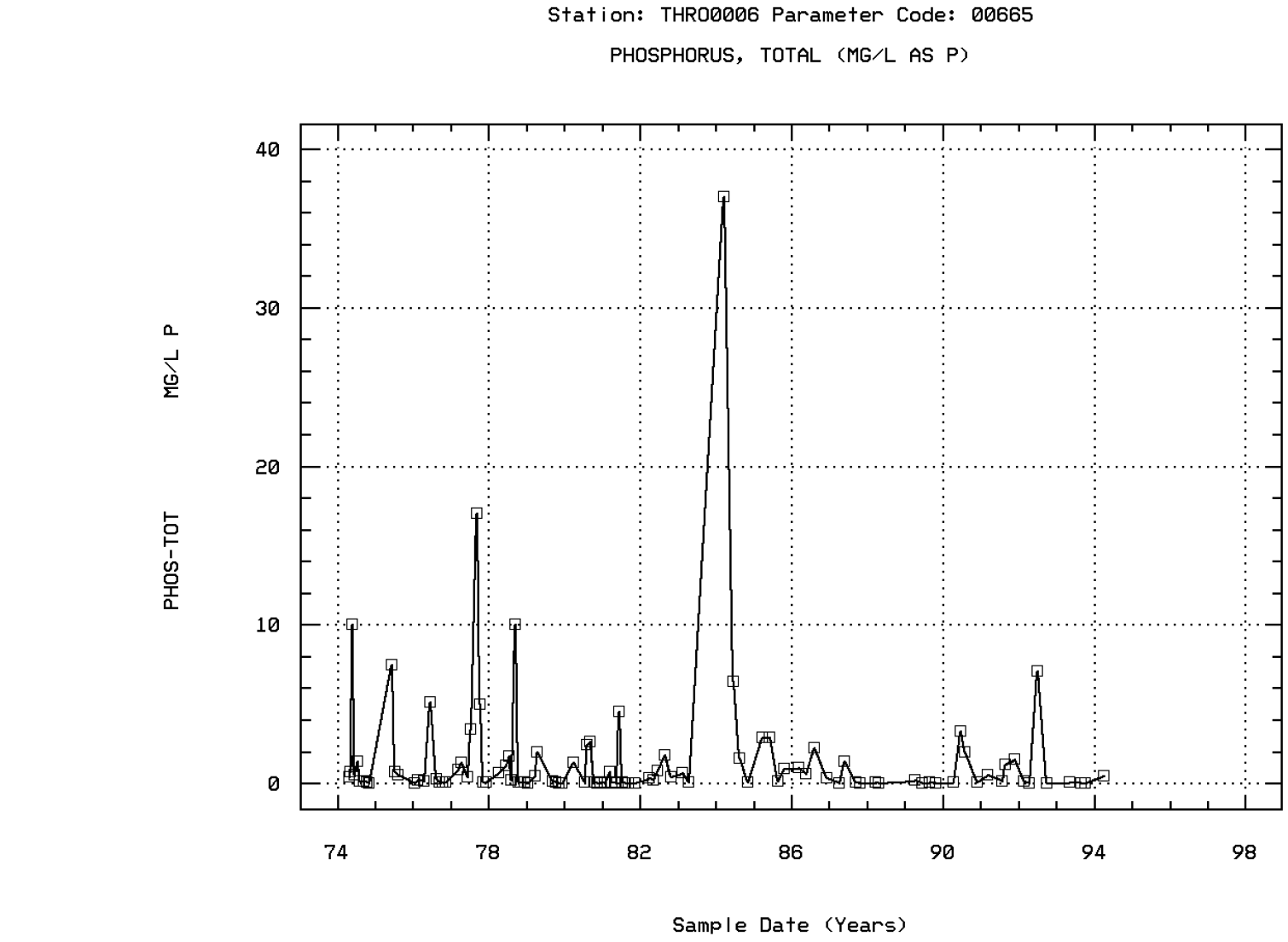
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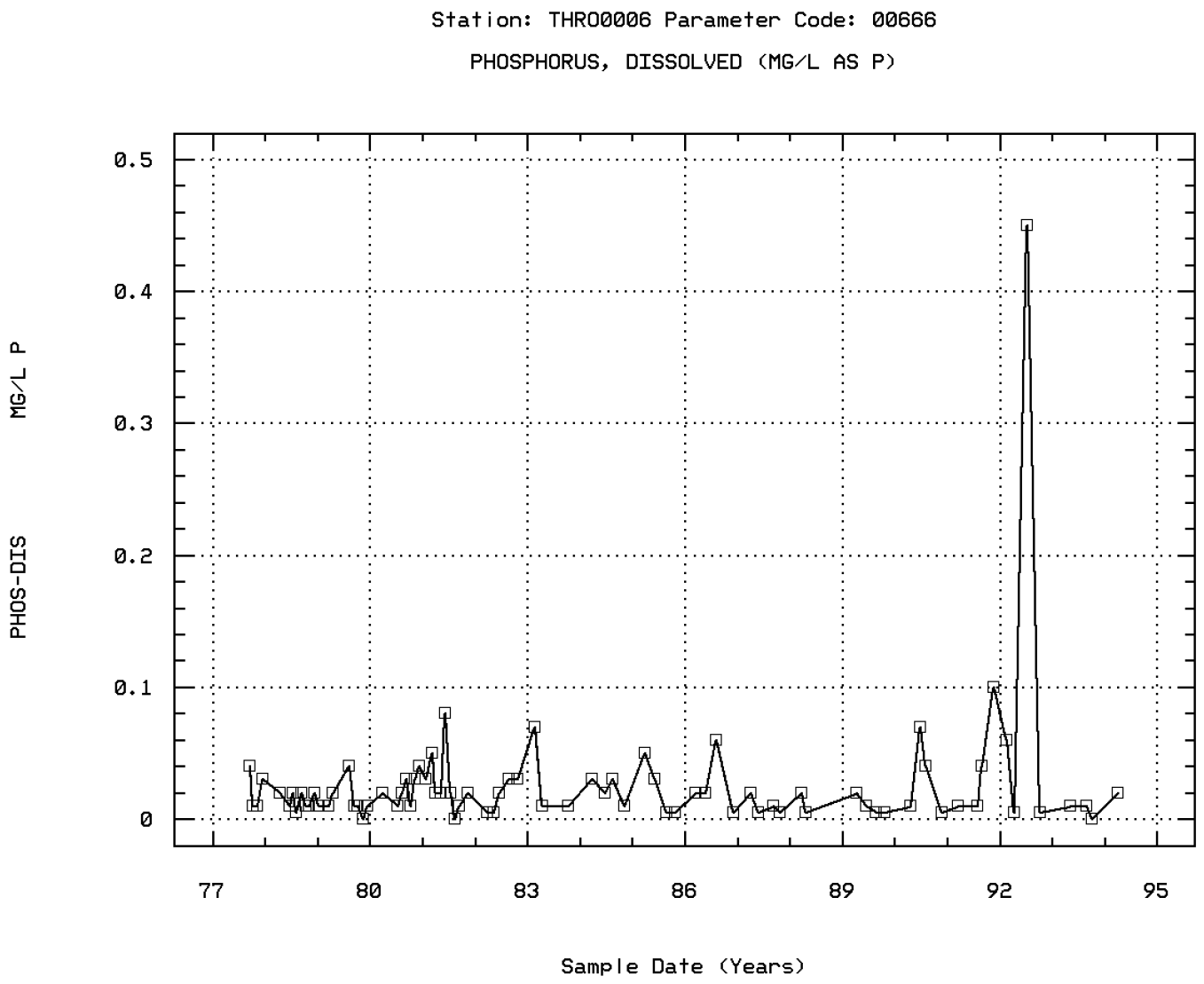
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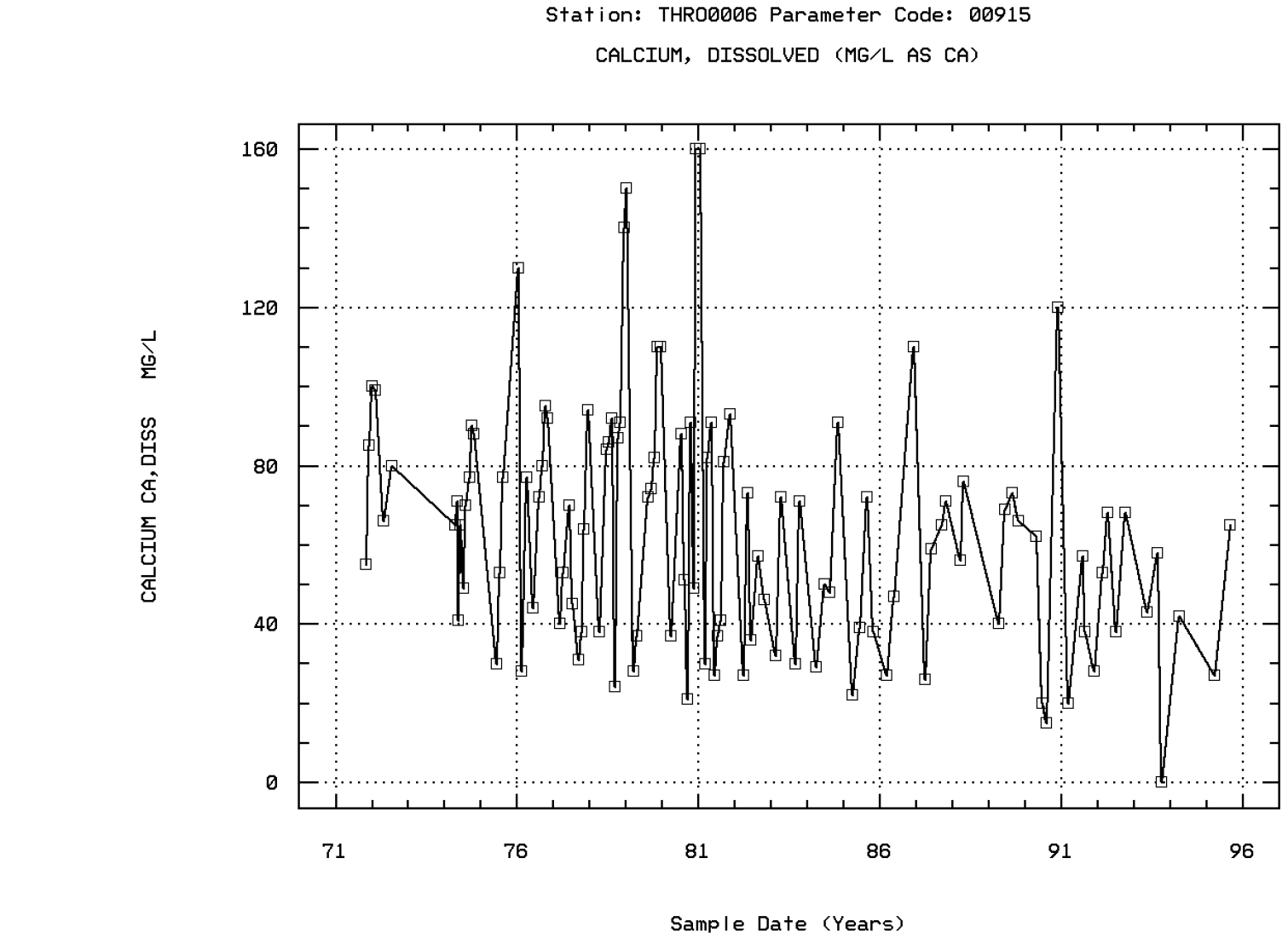
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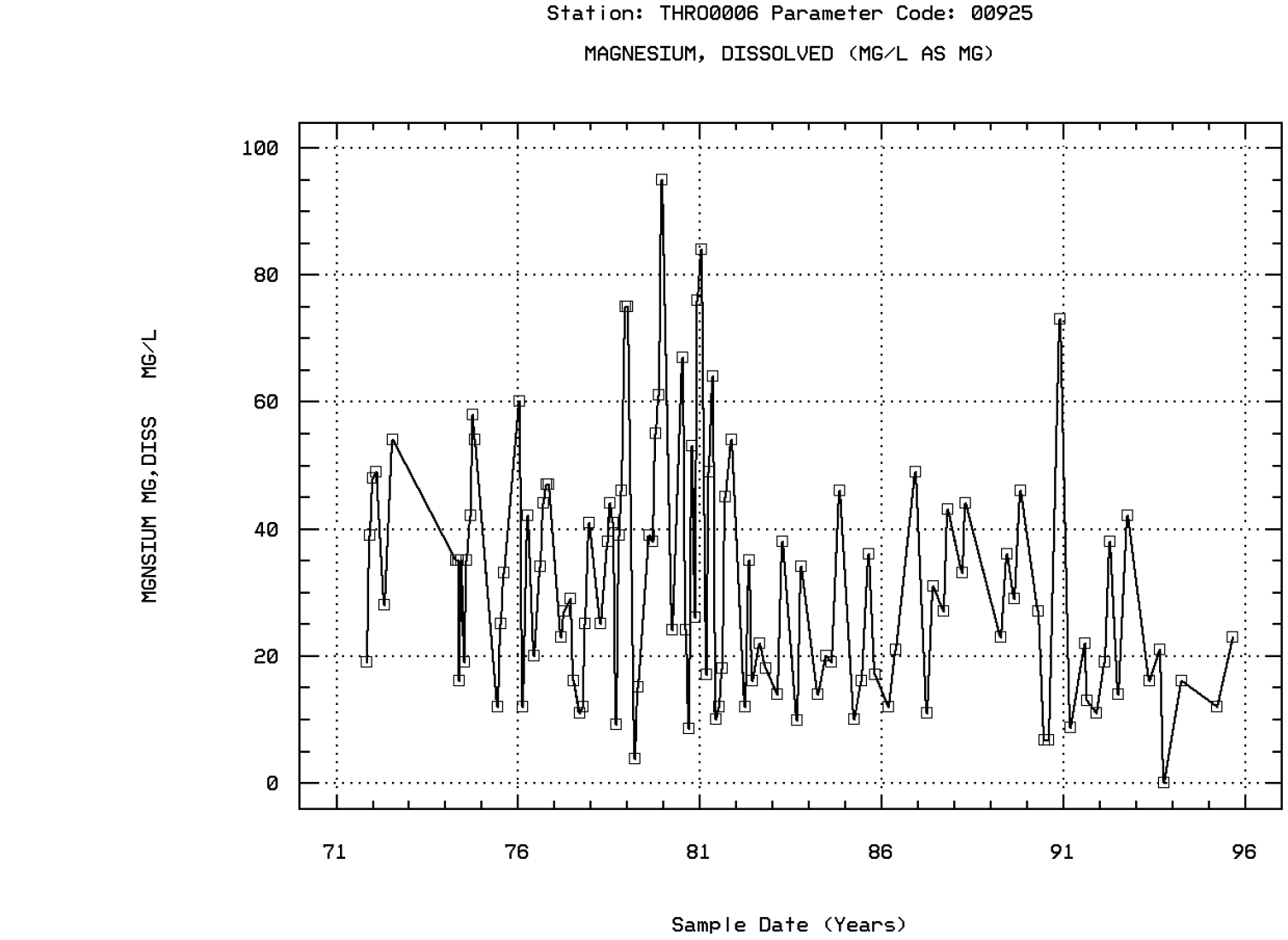
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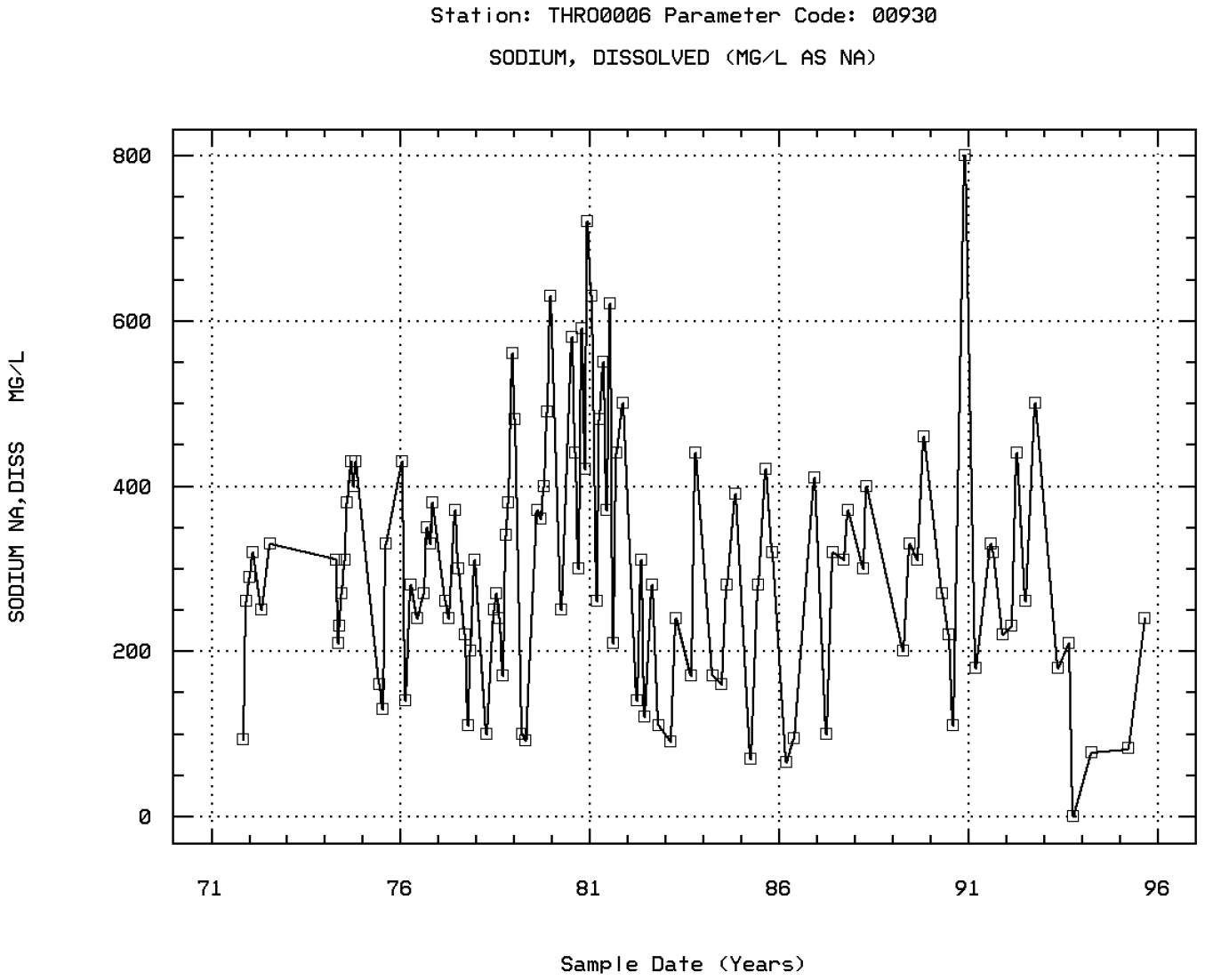
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,



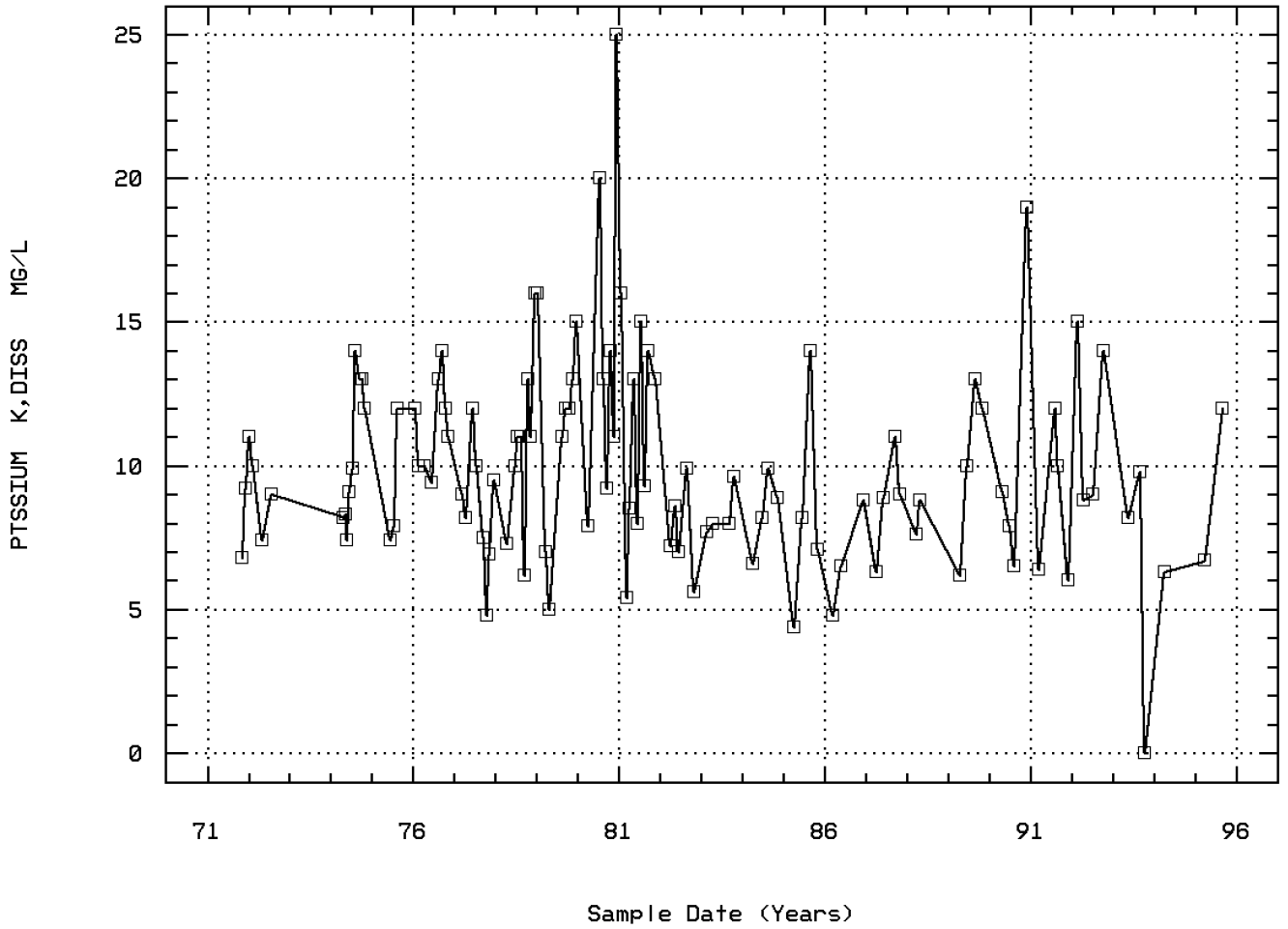
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 00935

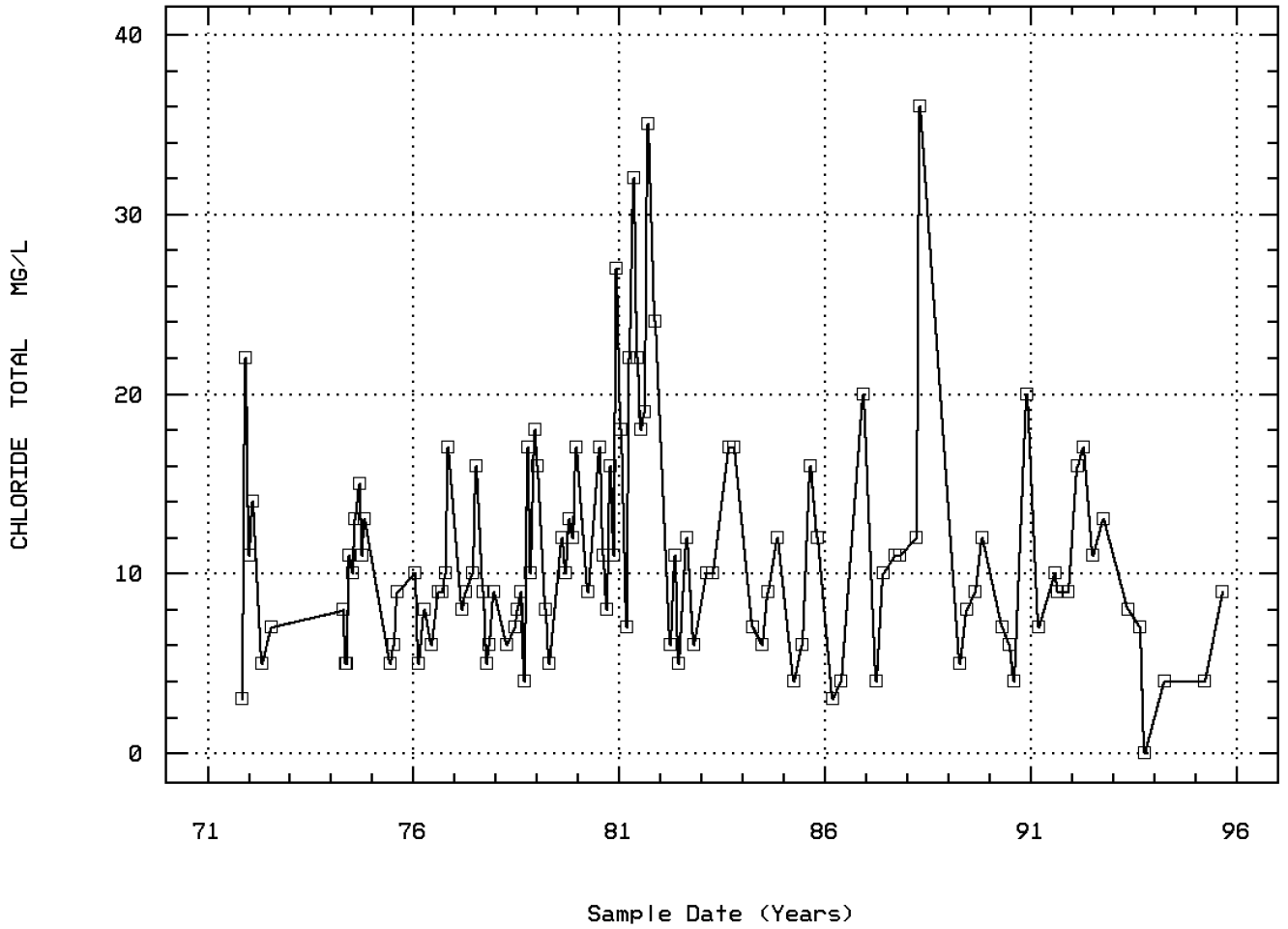
POTASSIUM, DISSOLVED (MG/L AS K)



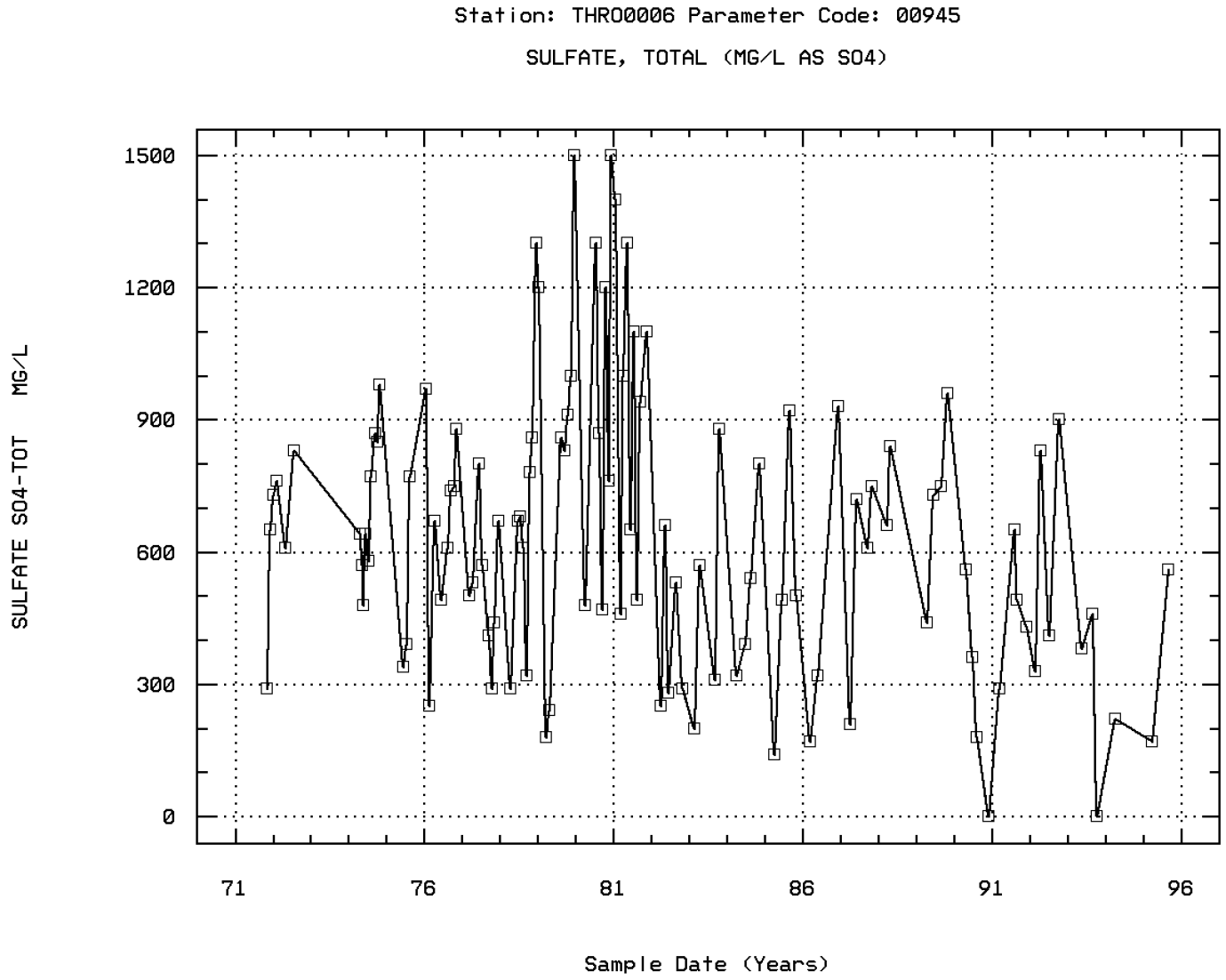
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00940

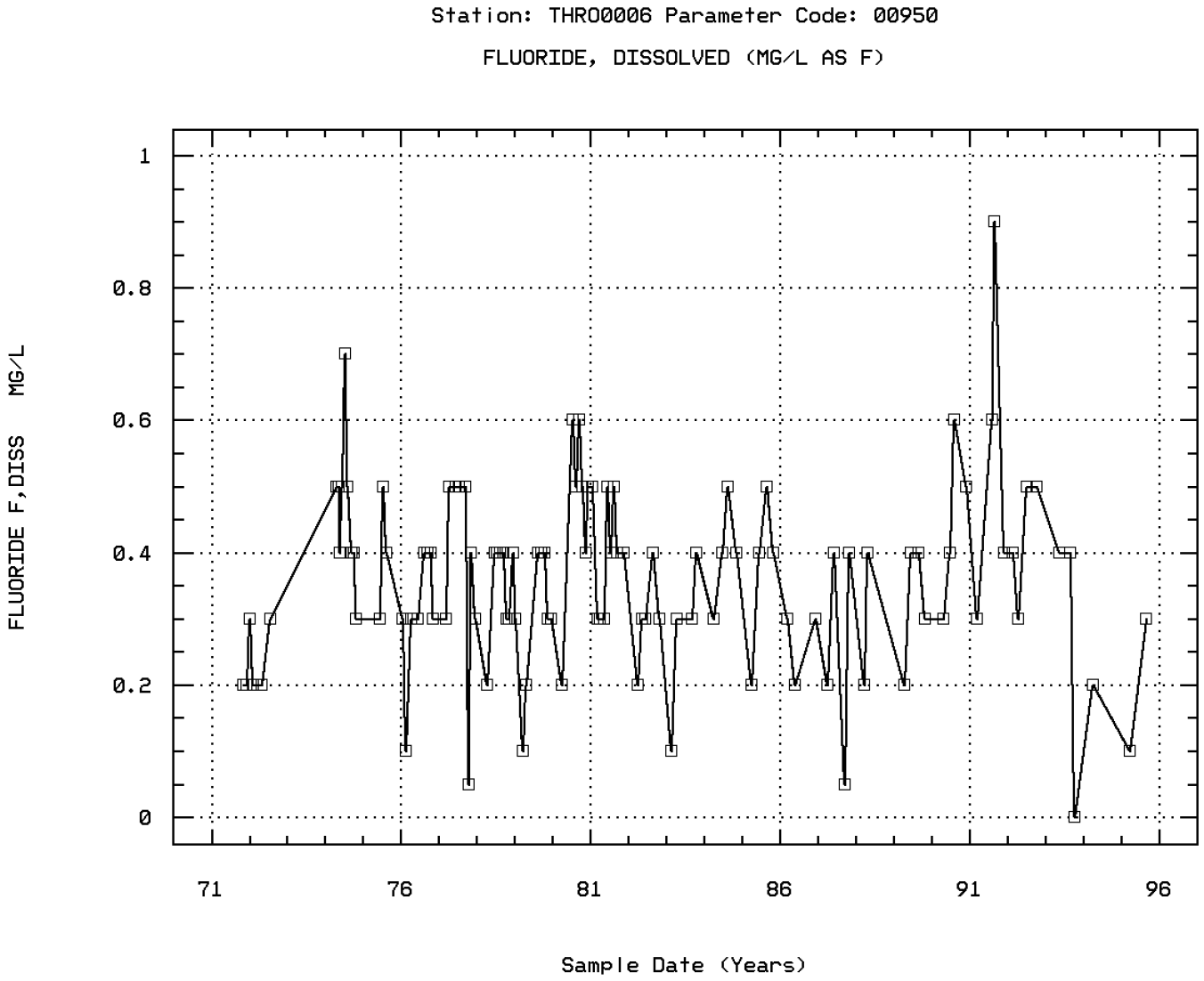
CHLORIDE,TOTAL IN WATER



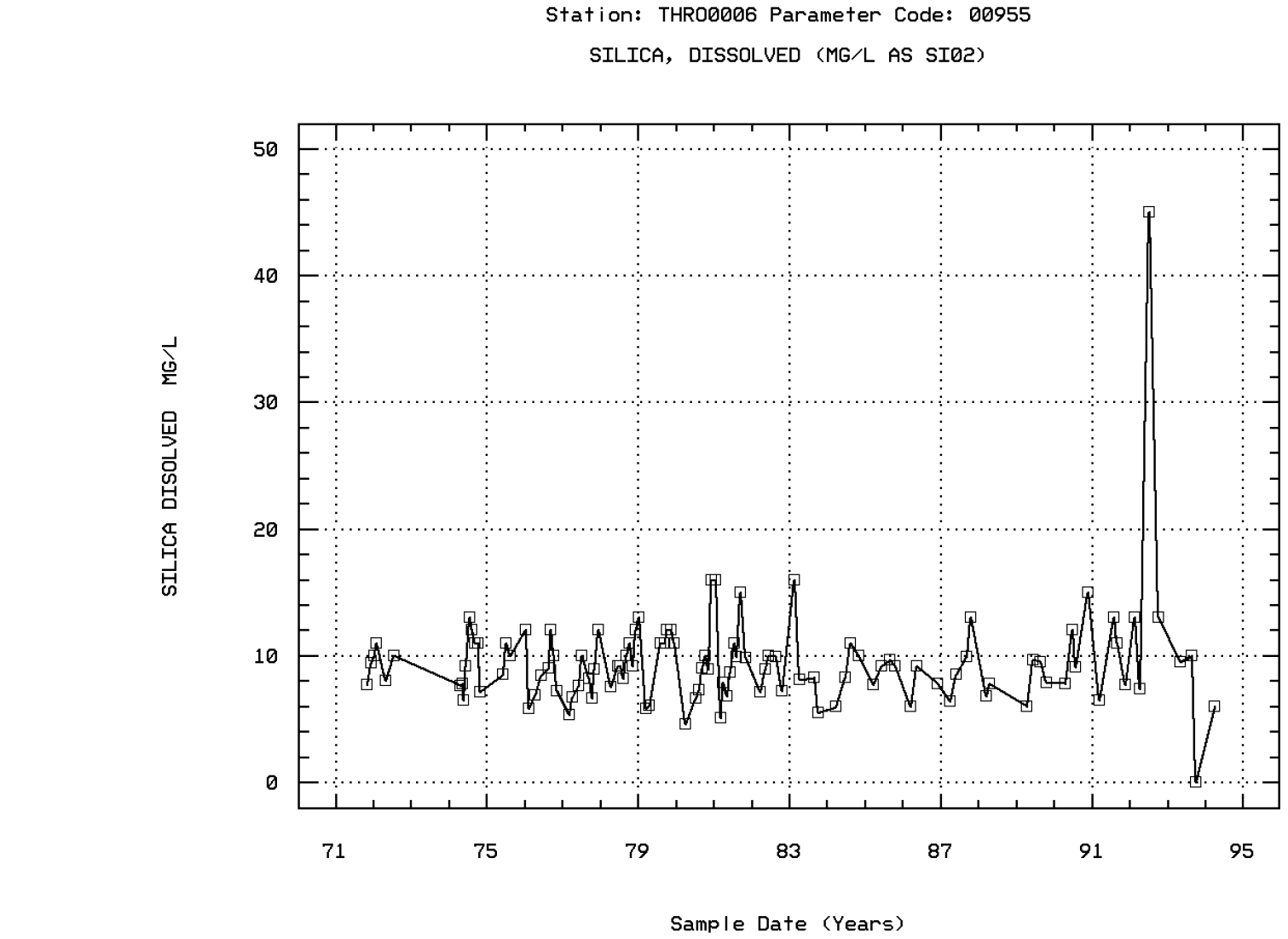
LITTLE MISSOURI RIVER NR WATFORD CITY,



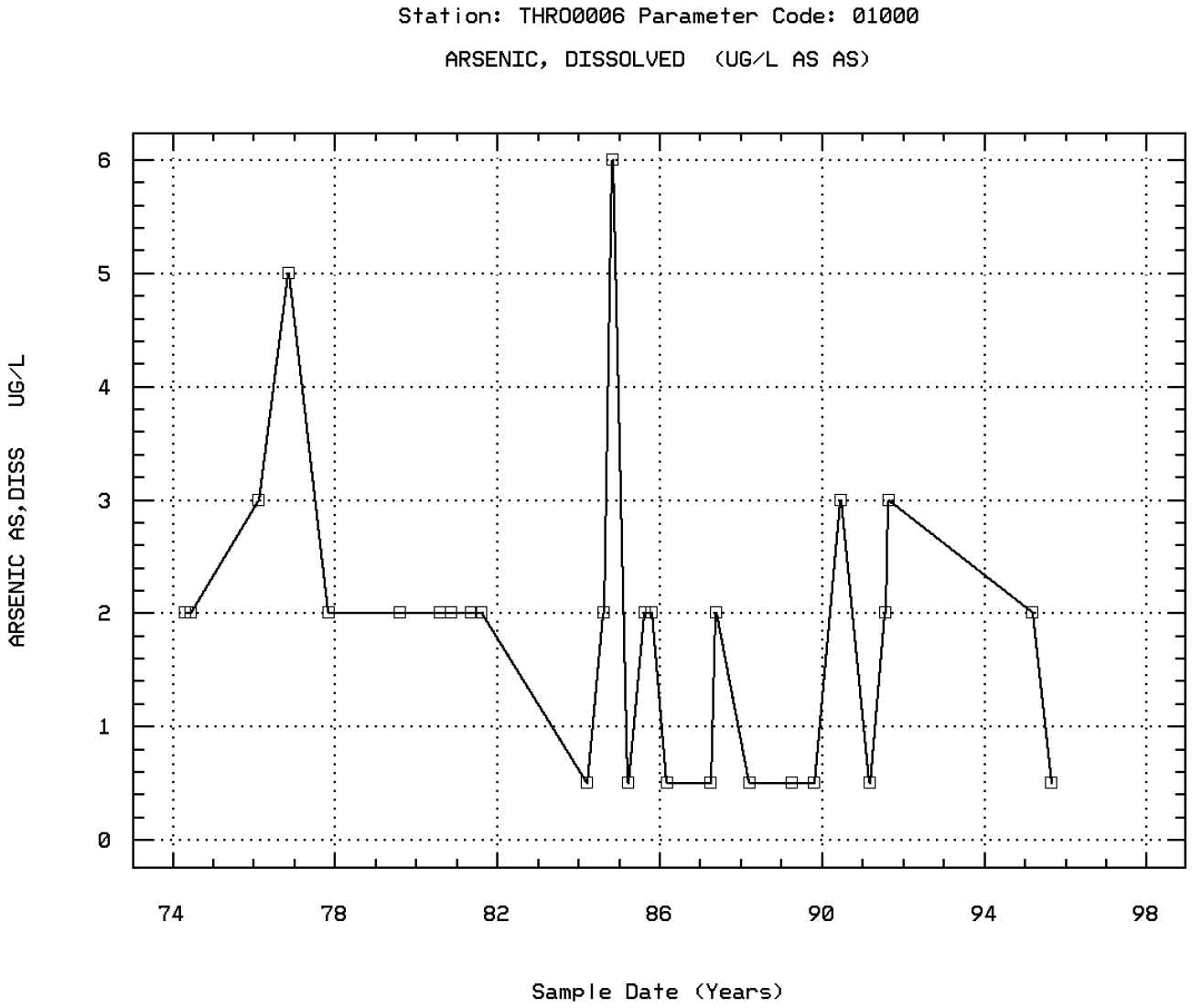
LITTLE MISSOURI RIVER NR WATFORD CITY,



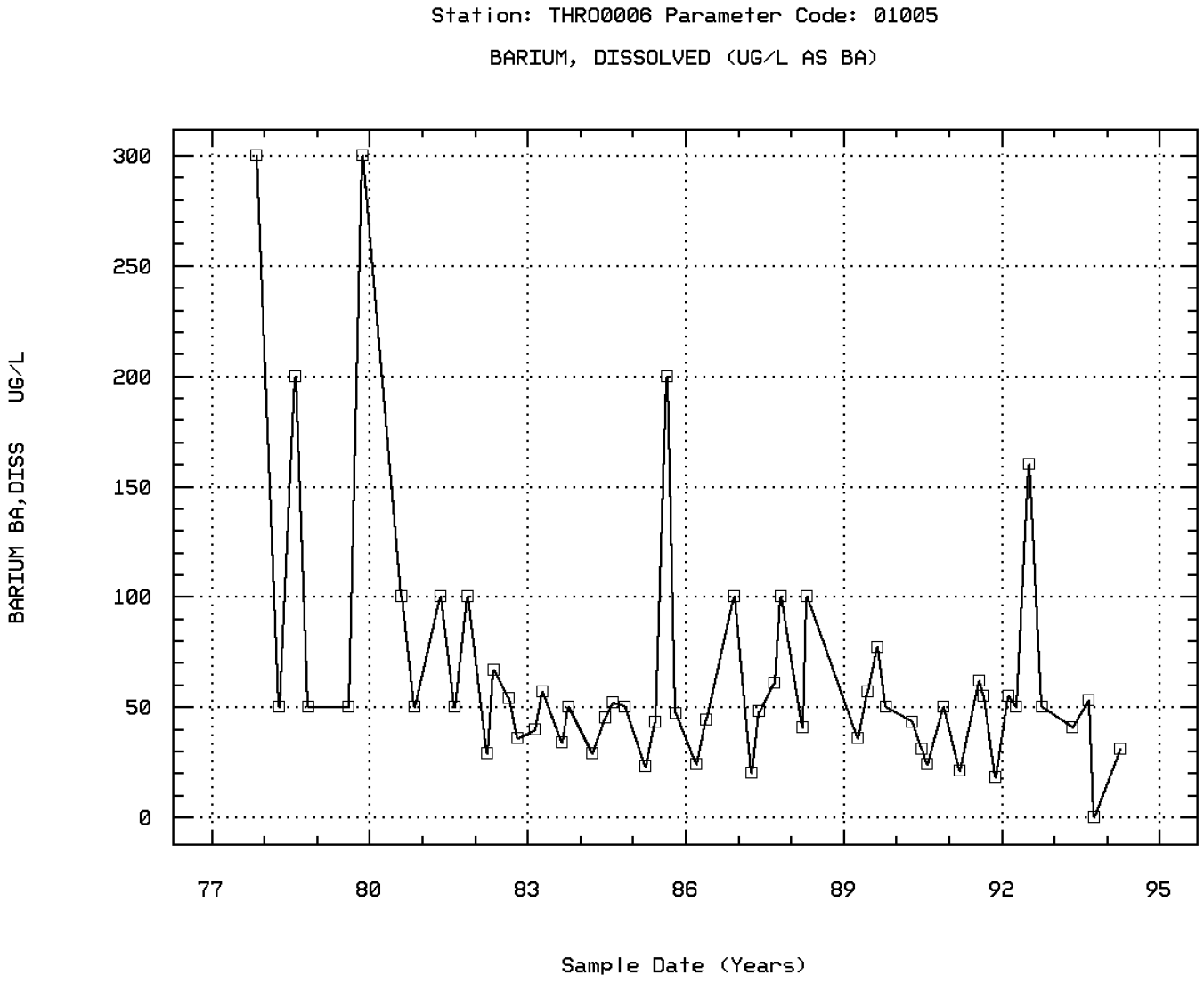
LITTLE MISSOURI RIVER NR WATFORD CITY,



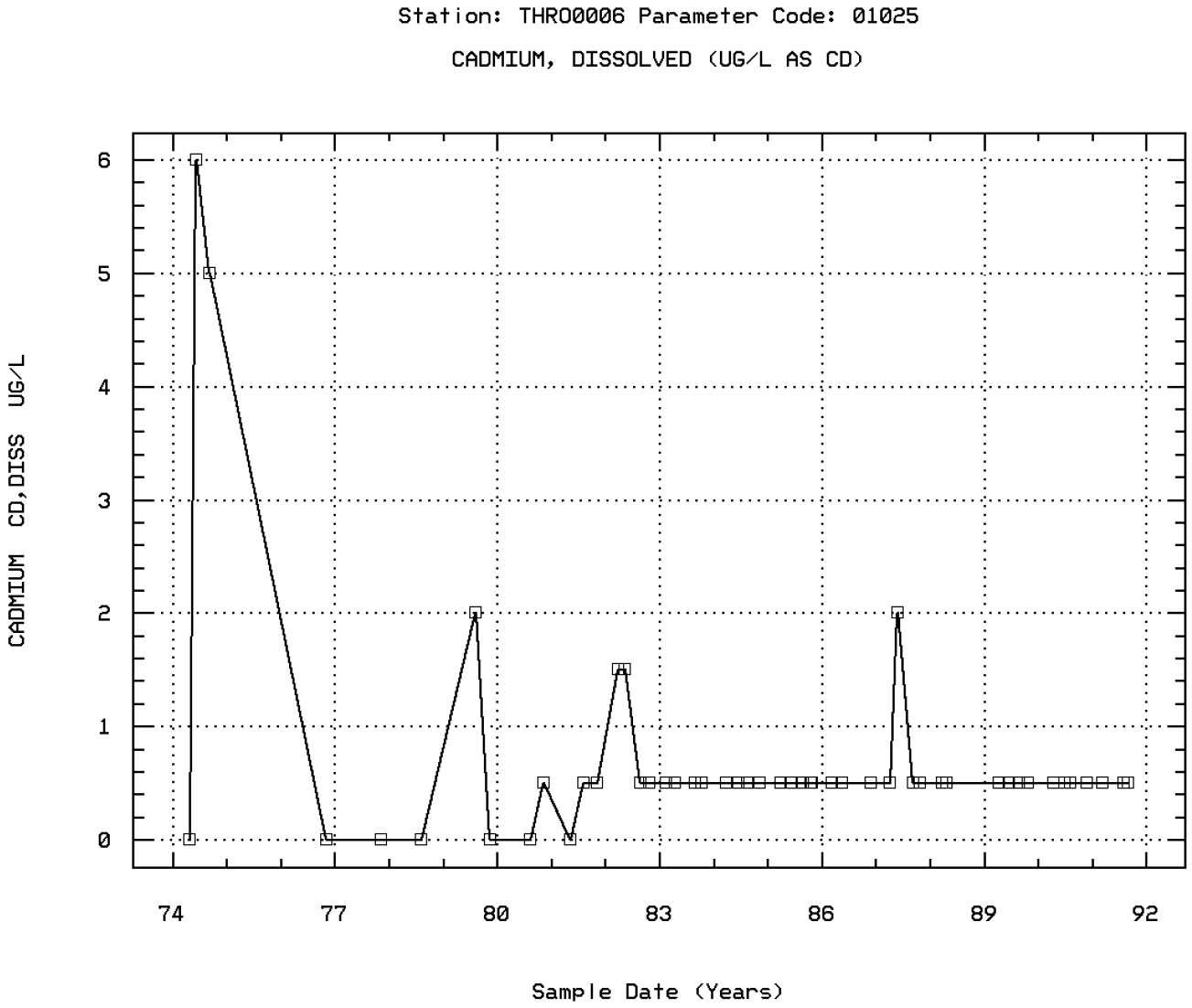
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,



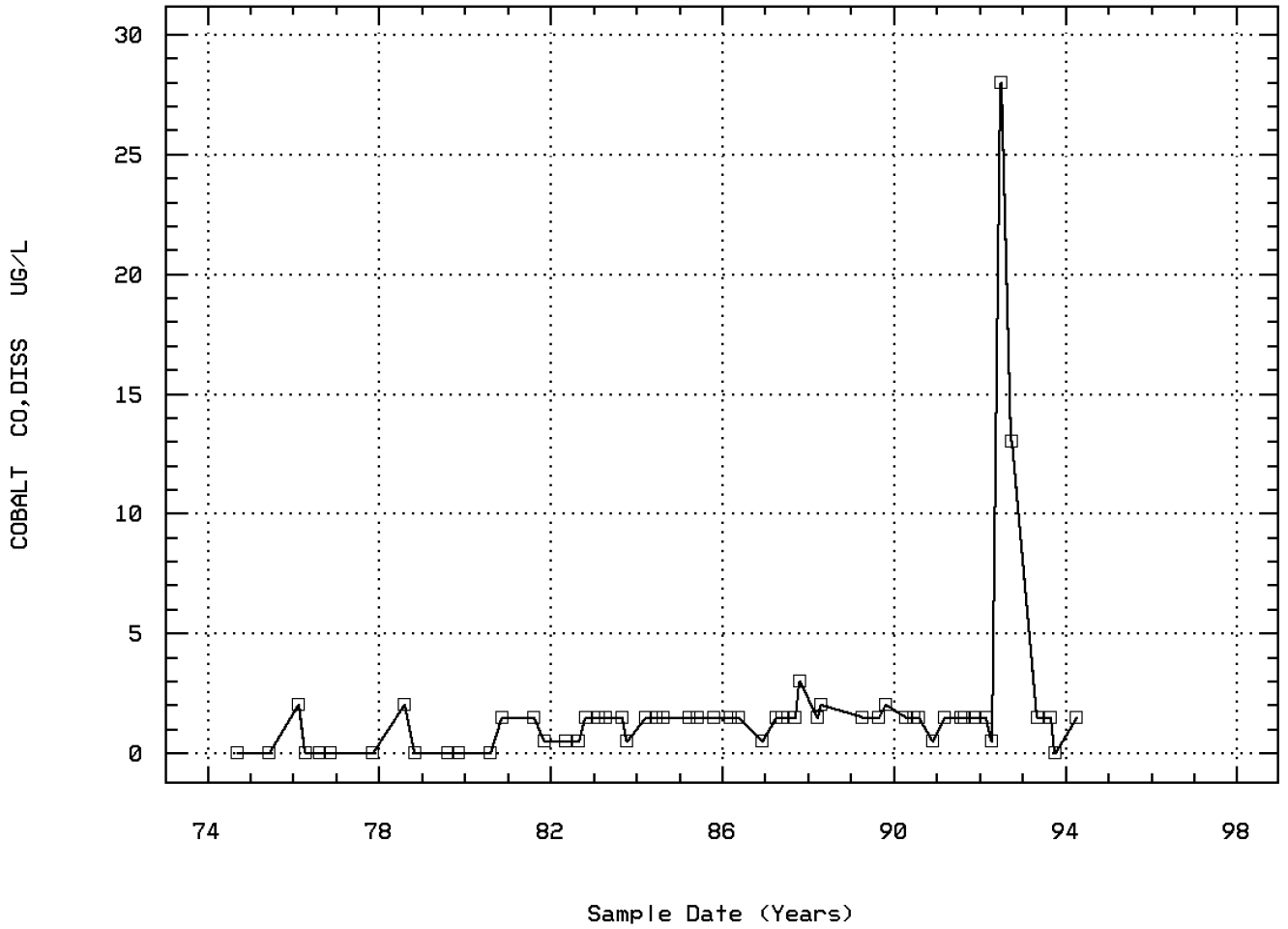
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 01035

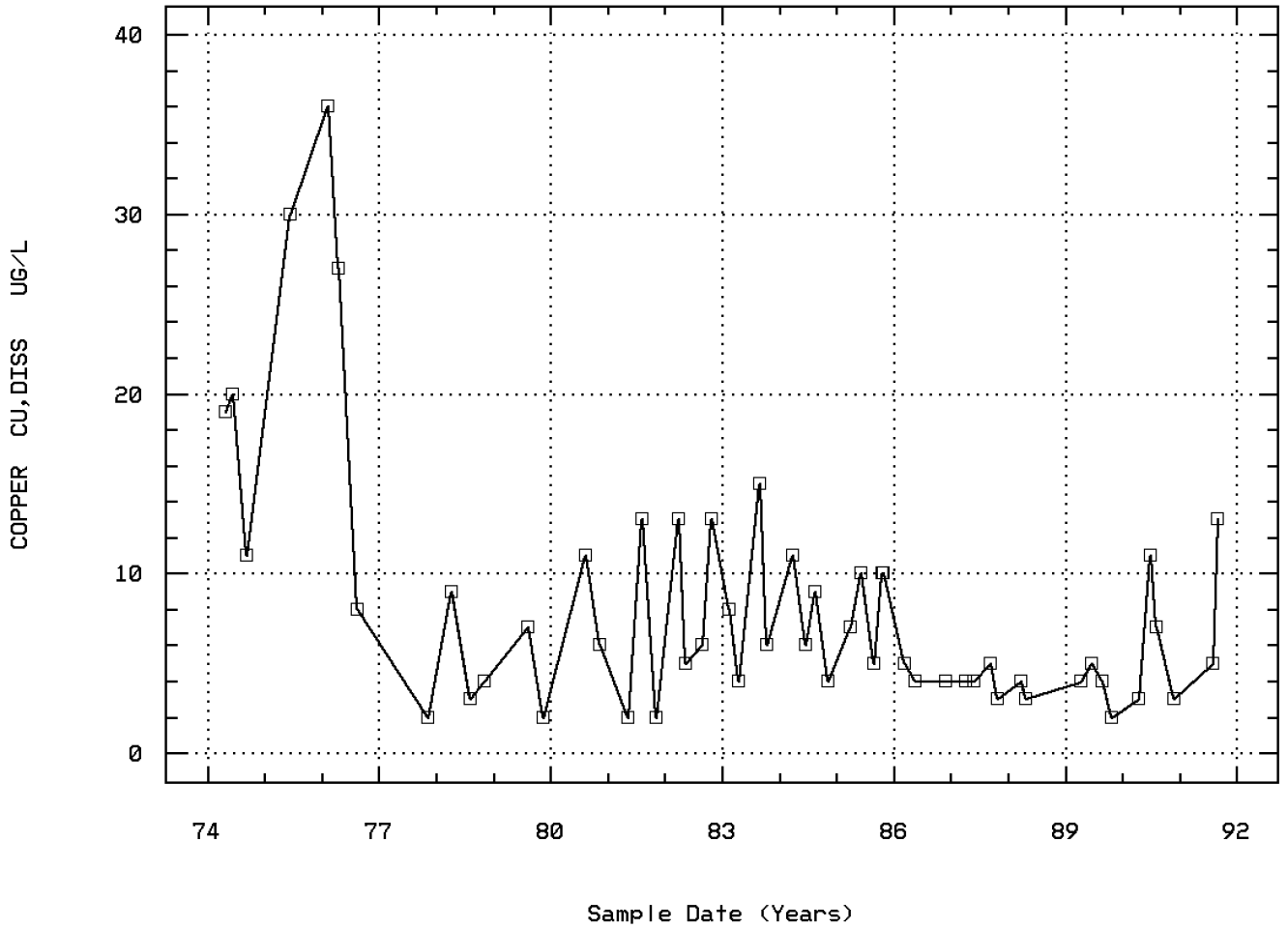
COBALT, DISSOLVED (UG/L AS CO)



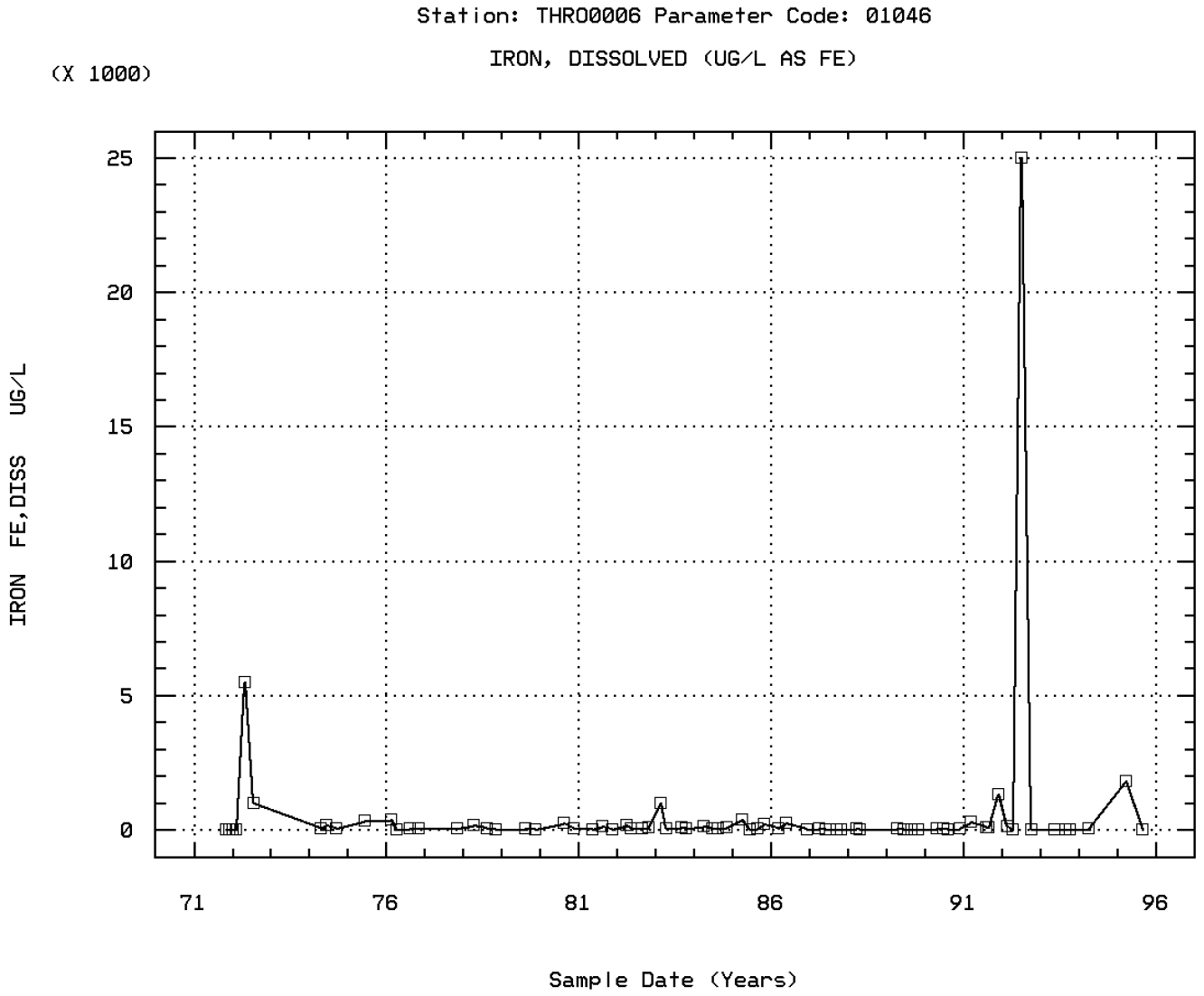
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 01040

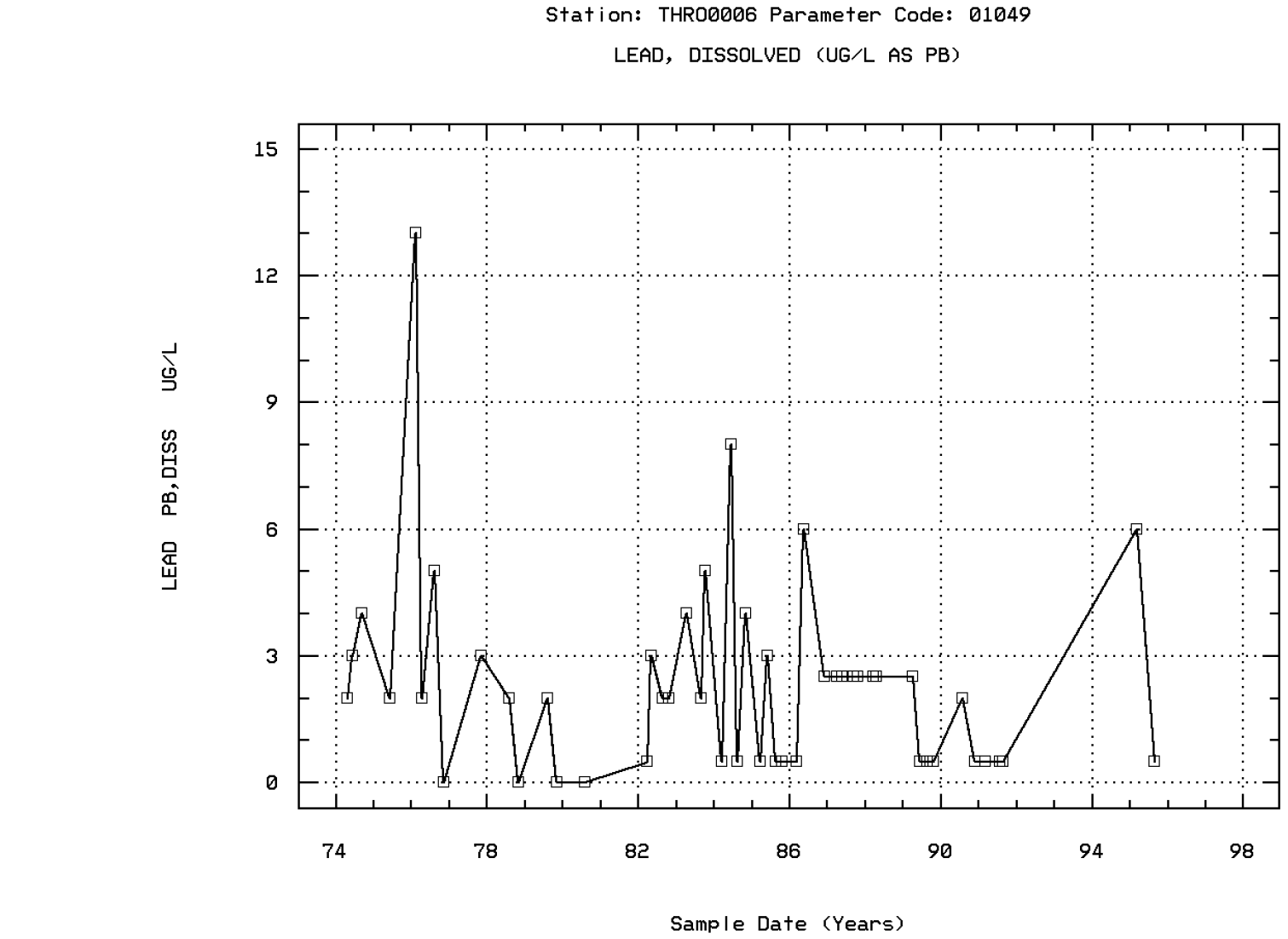
COPPER, DISSOLVED (UG/L AS CU)



LITTLE MISSOURI RIVER NR WATFORD CITY,



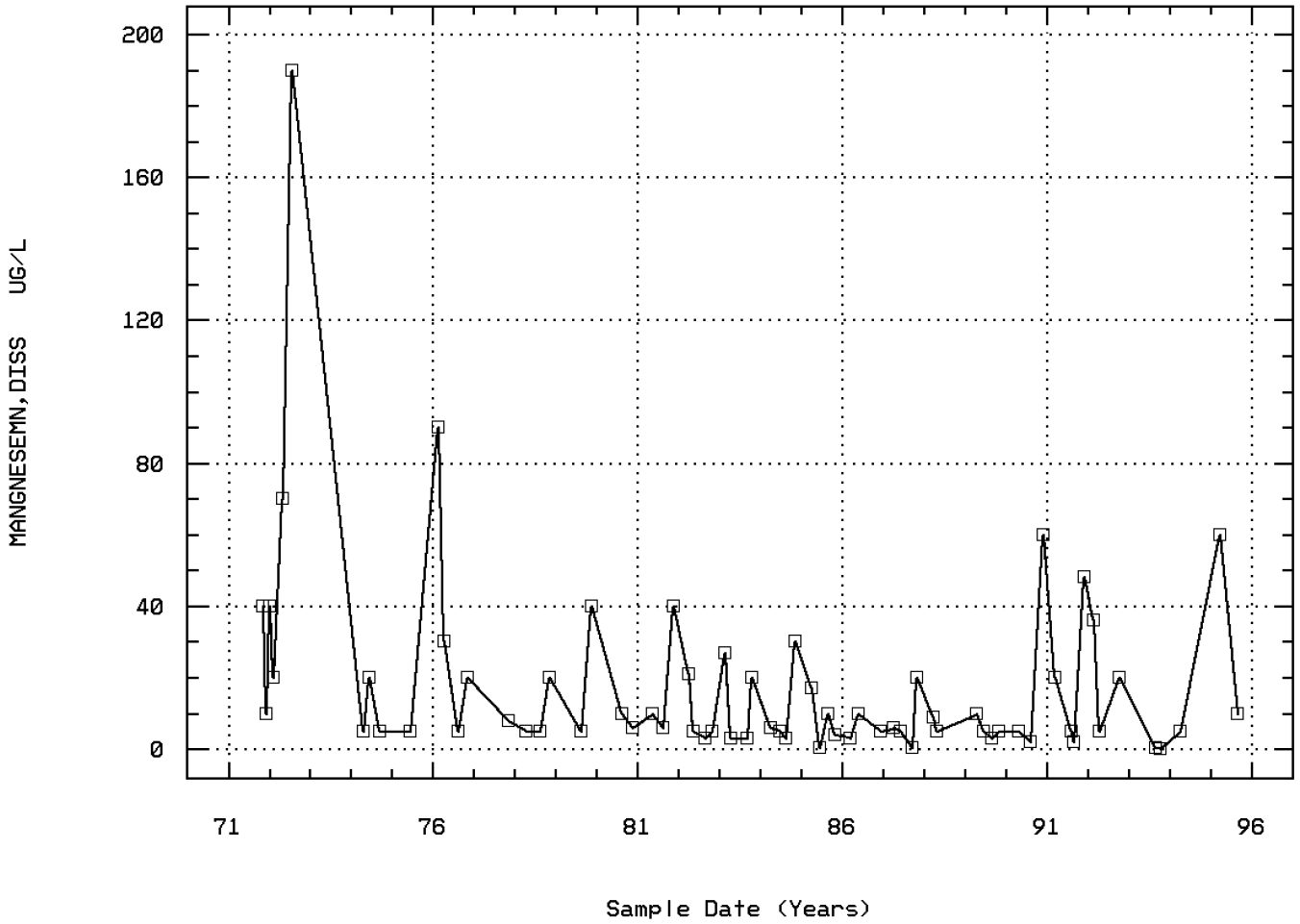
LITTLE MISSOURI RIVER NR WATFORD CITY,



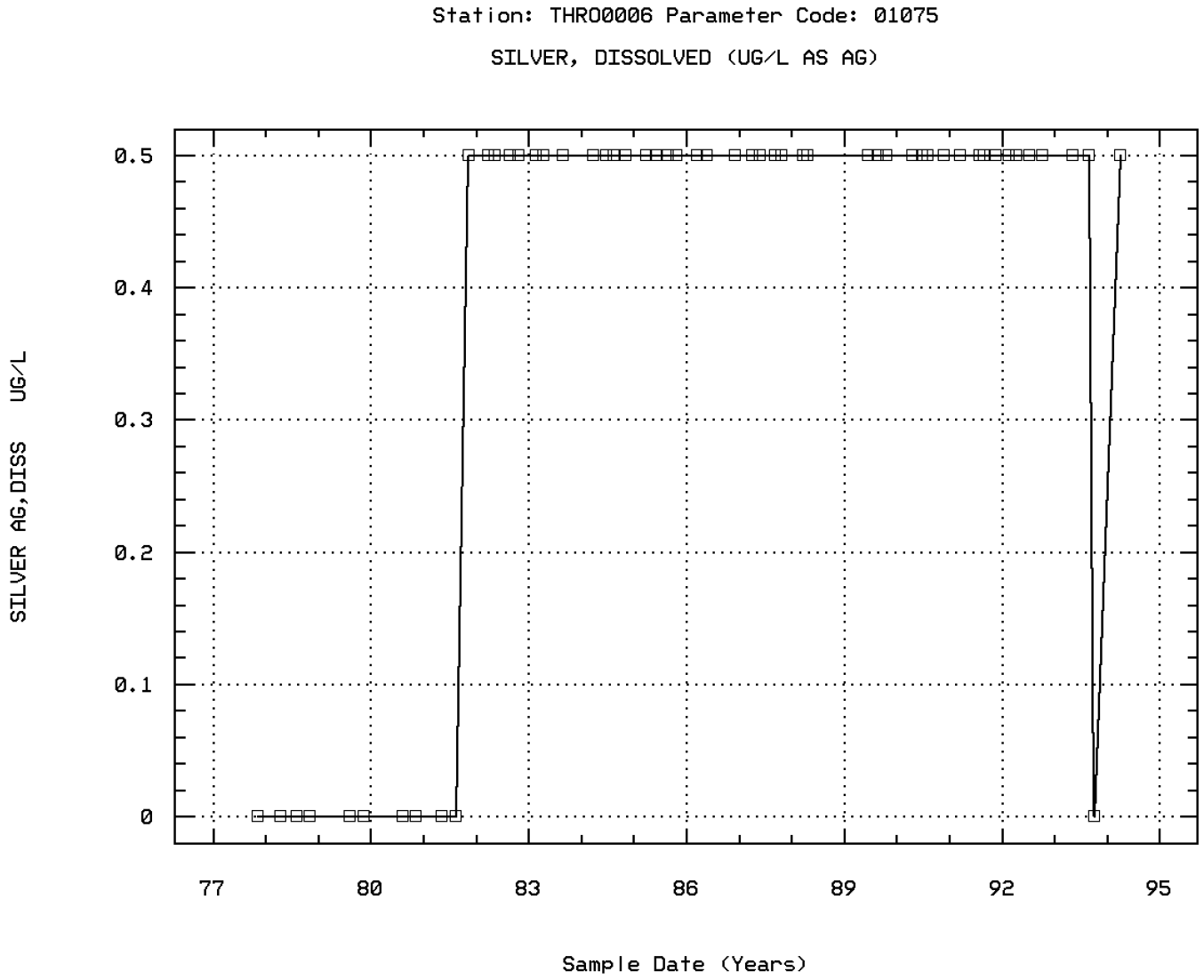
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 01056

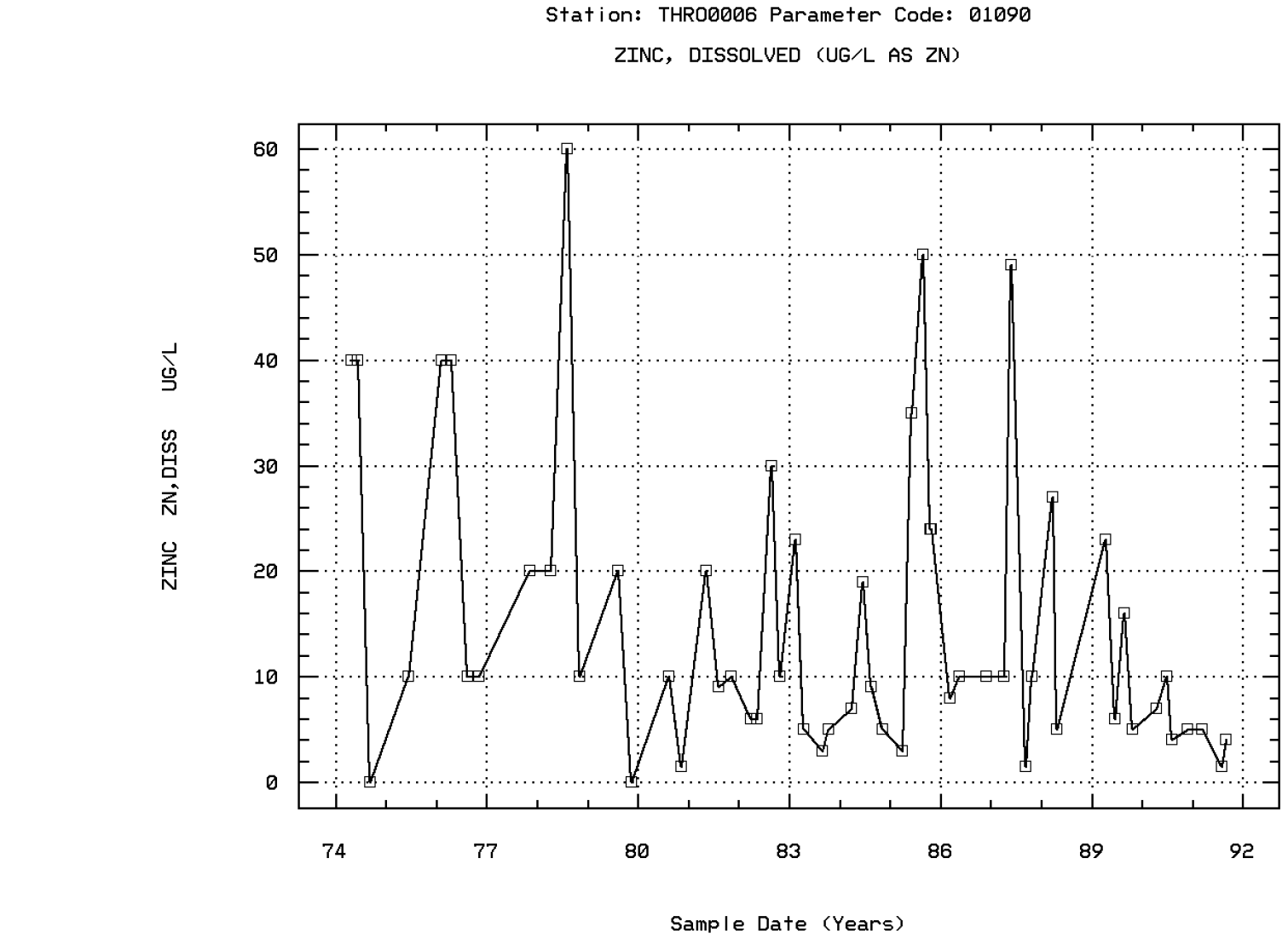
MANGANESE, DISSOLVED (UG/L AS MN)



LITTLE MISSOURI RIVER NR WATFORD CITY,



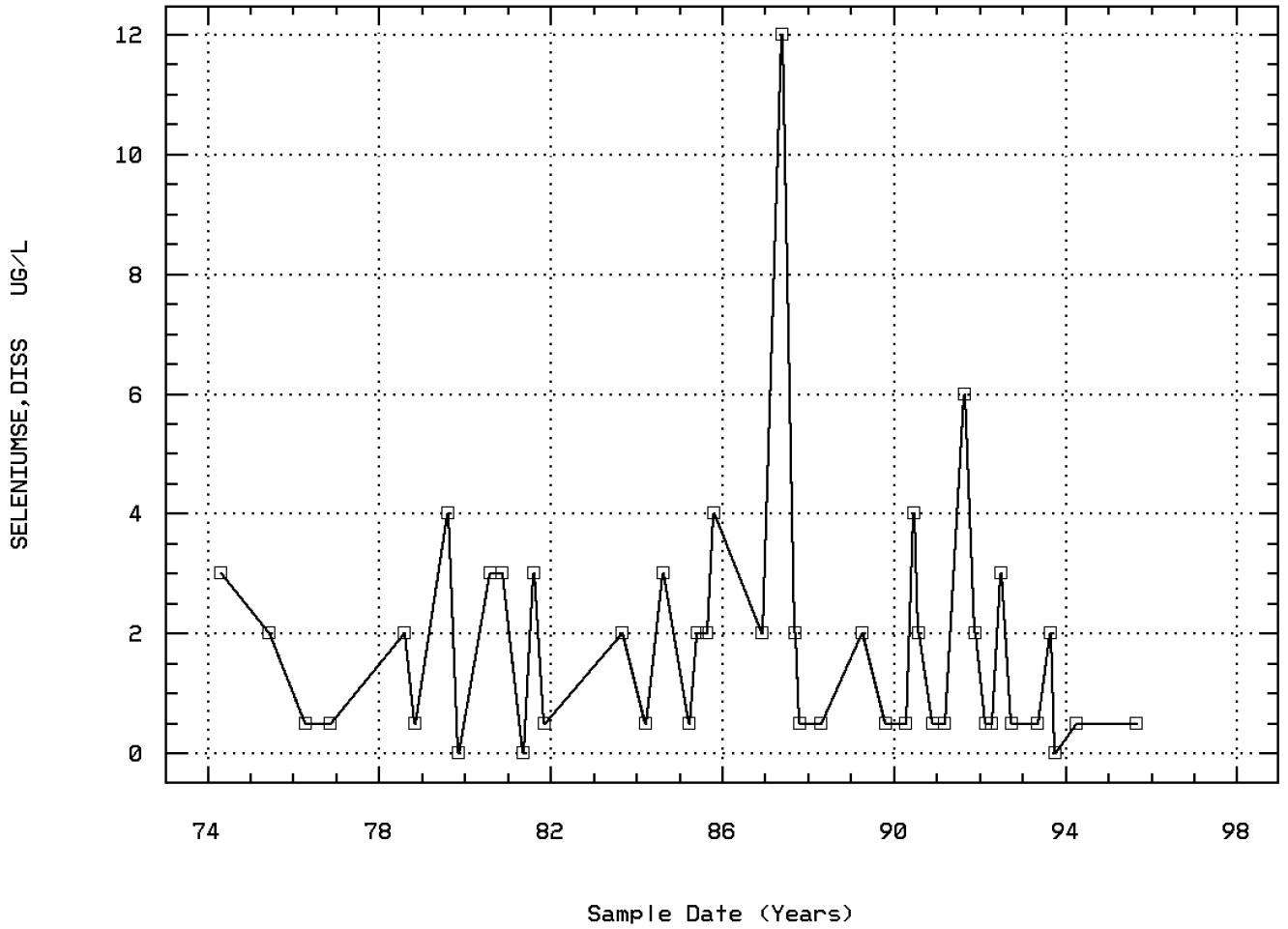
LITTLE MISSOURI RIVER NR WATFORD CITY,



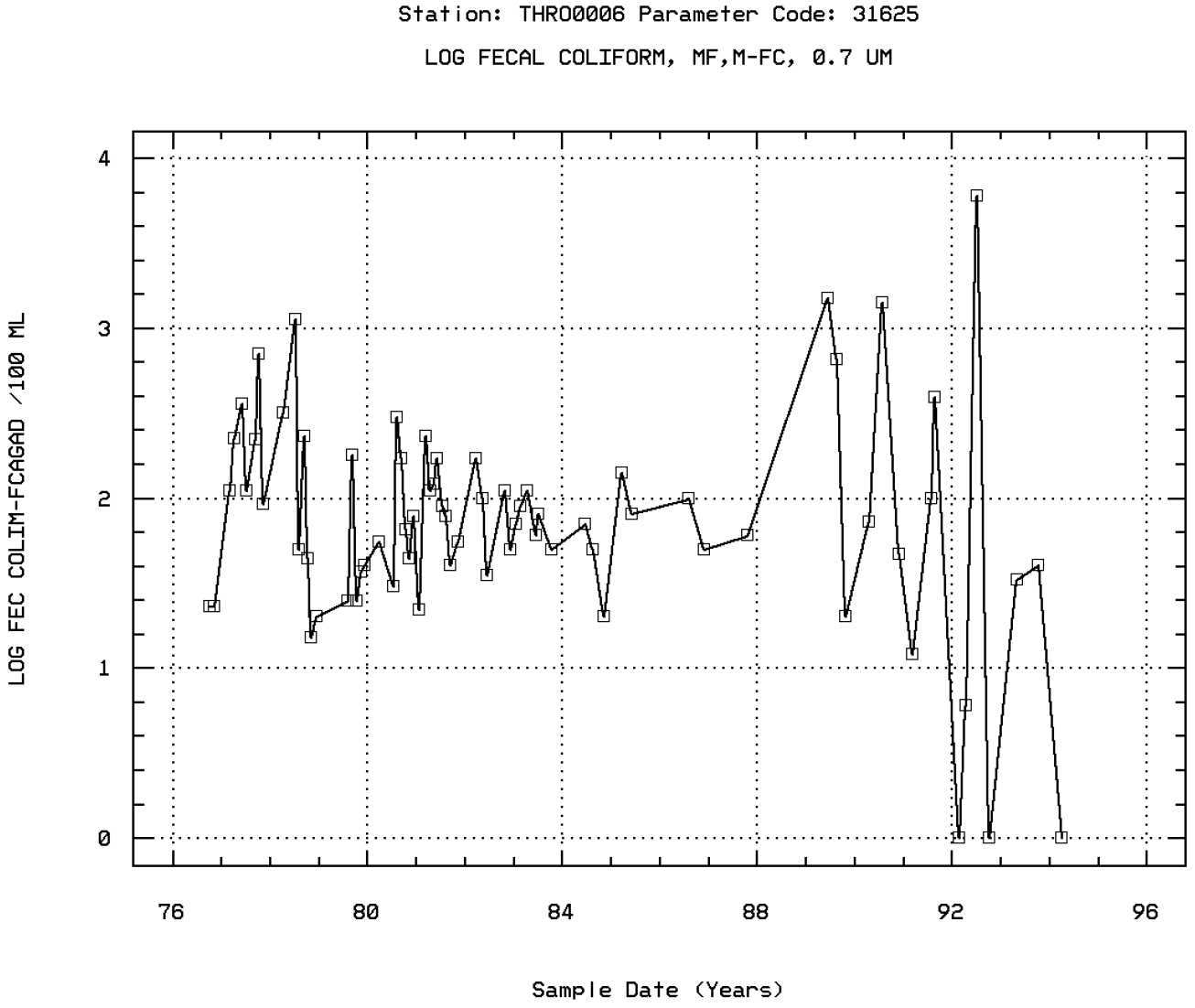
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 01145

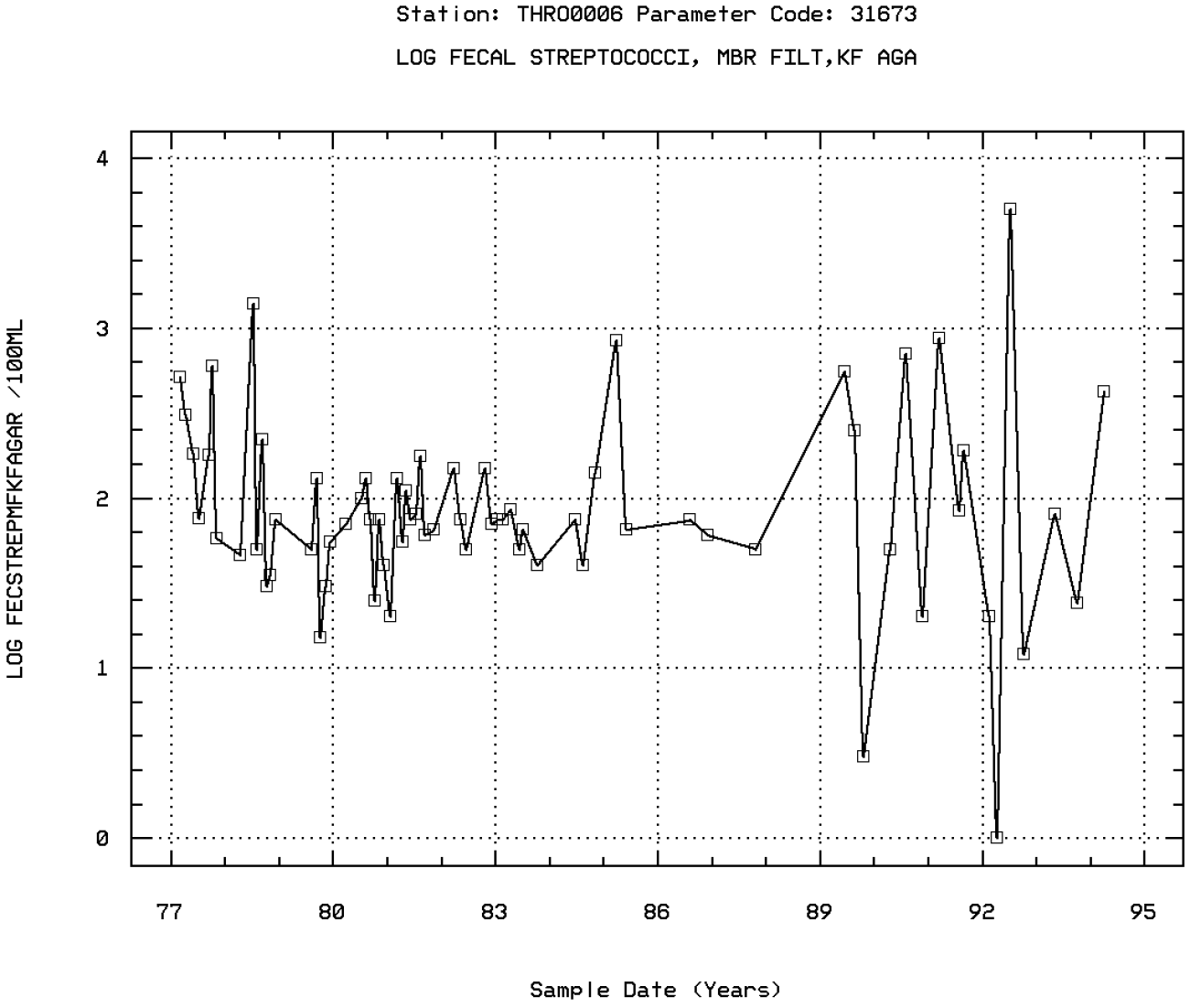
SELENIUM, DISSOLVED (UG/L AS SE)



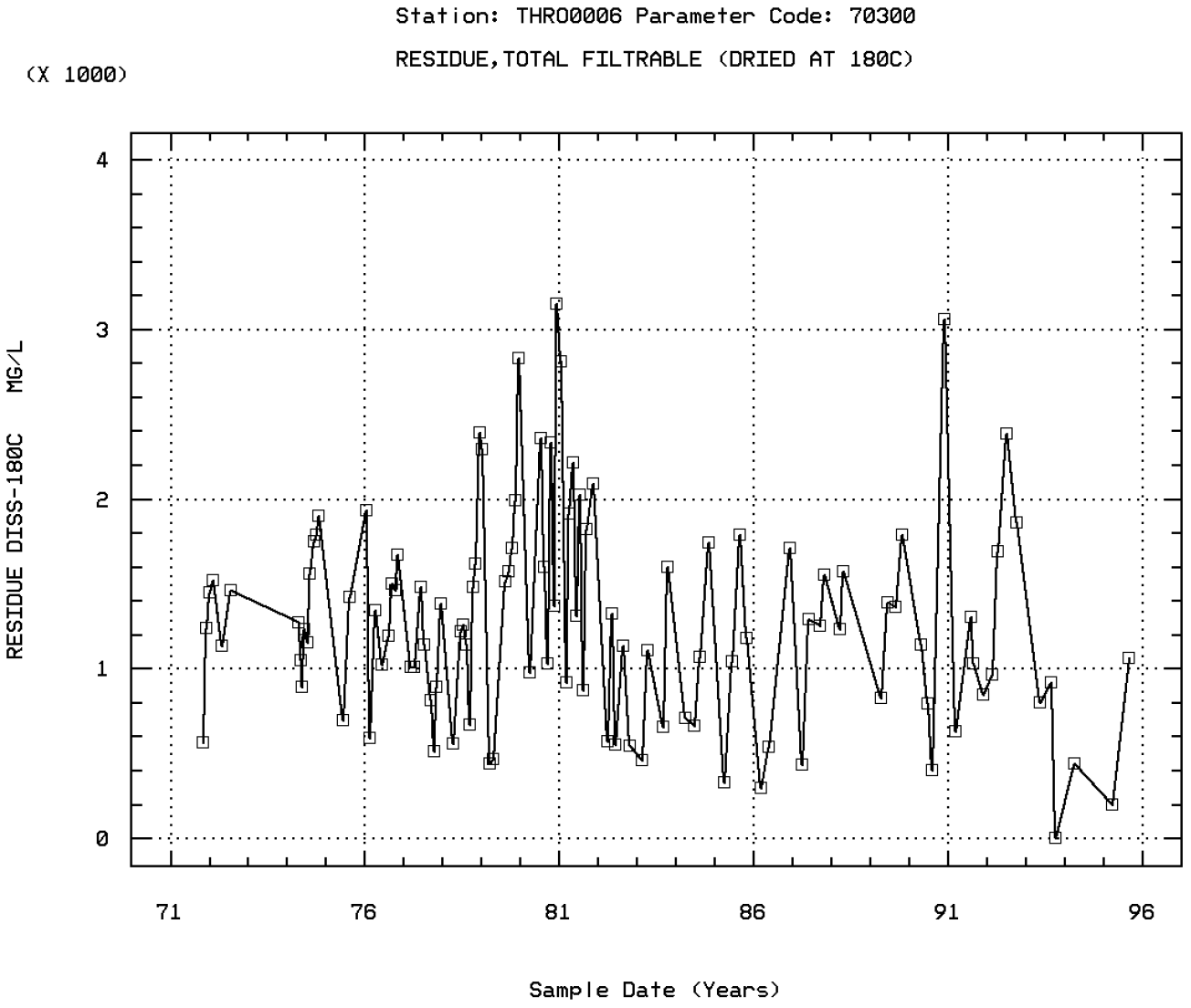
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,



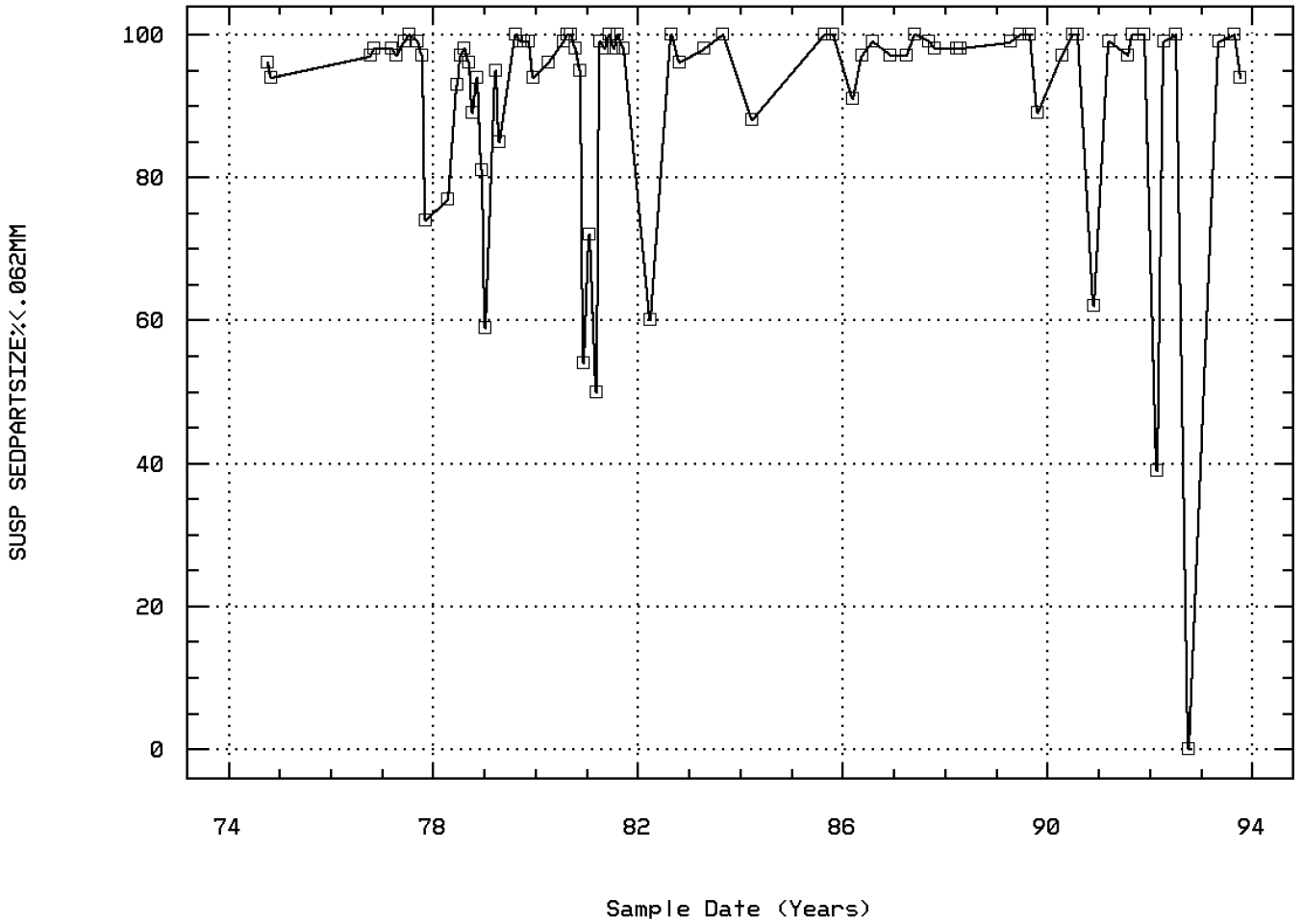
LITTLE MISSOURI RIVER NR WATFORD CITY,



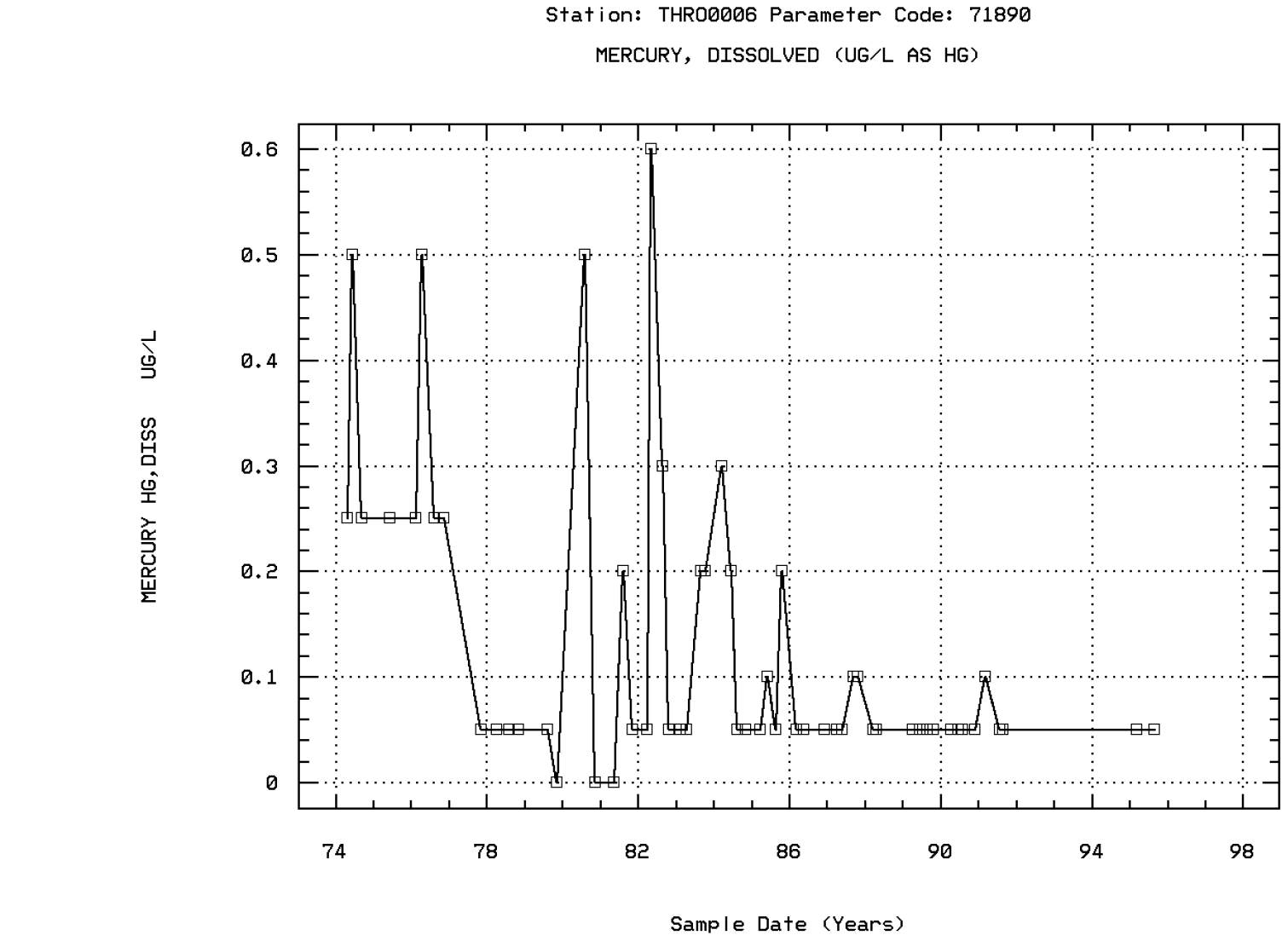
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 70331

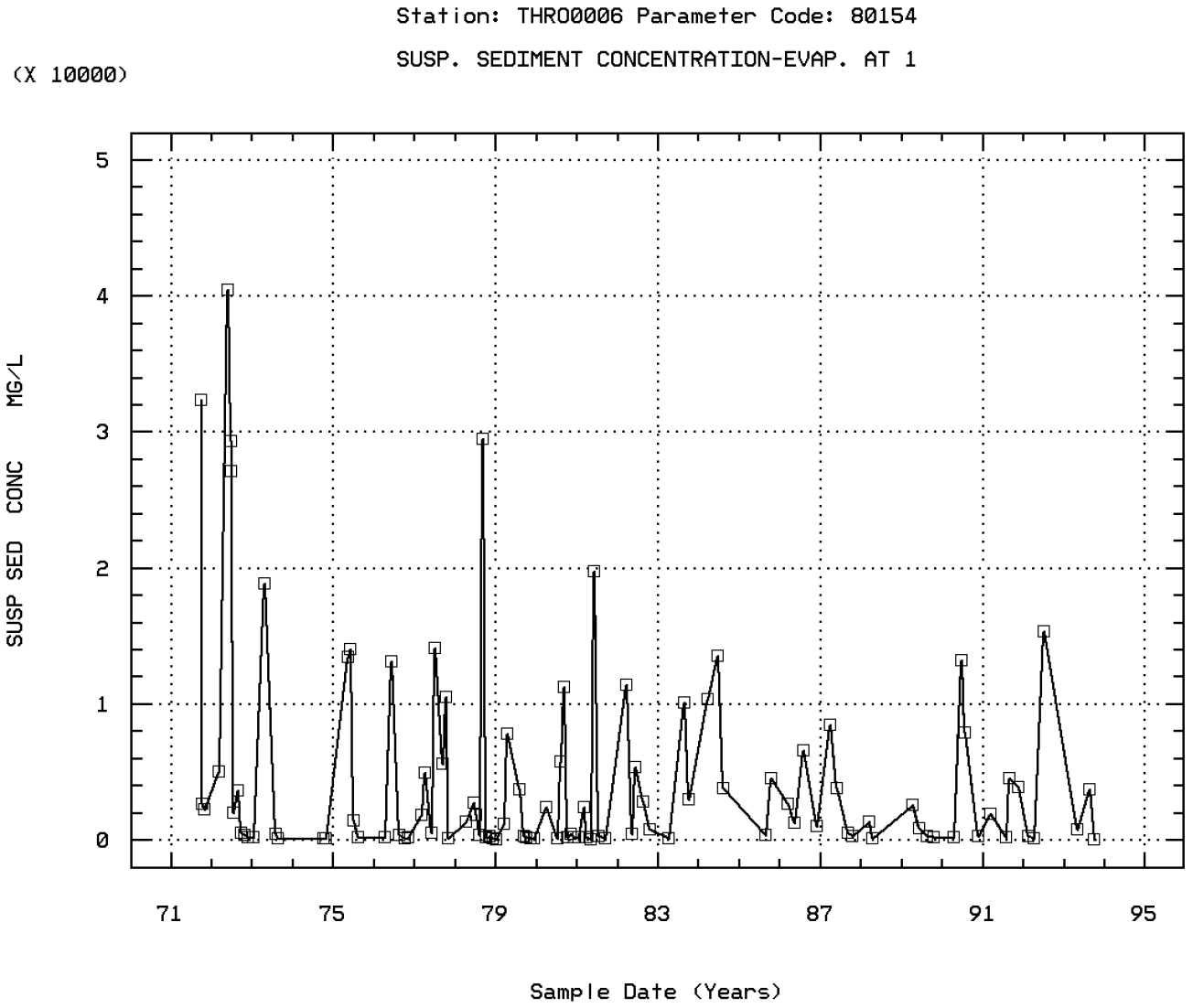
SUSPENDED SED SIEVE DIAMETER,% FINER TH



LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Annual Analysis for 1971 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	6	2.75	3.5	10.	0.	14.6	3.821	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	2	1277.	1277.	1740.	814.	428738.	654.781	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	2	7.75	7.75	8.	7.5	0.125	0.354	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	2	7.682	7.682	8.	7.5	0.134	0.367	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	2	0.021	0.021	0.032	0.01	0.	0.015	**	**	**	**

** - Less 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 THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	20	7.	9.475	24.	0.	75.065	8.664	0.	0.75	18.75	21.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	5	1940.	1726.	2030.	1110.	147730.	384.357	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	4	7.8	7.725	7.9	7.4	0.056	0.236	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	4	7.789	7.673	7.9	7.4	0.059	0.244	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	4	0.016	0.021	0.04	0.013	0.	0.013	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1973 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	13	11.	10.654	27.	0.	93.141	9.651	0.4	1.	19.5	25.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	2	103.5	103.5	167.	40.	8064.5	89.803	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	7	1400.	1502.143	2000.	1080.	149398.81	386.521	**	**	**	**

** - Less 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 THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	12	10.5	10.333	24.5	0.	62.606	7.912	0.	1.75	16.75	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	3	12.5	11.5	15.	7.	16.75	4.093	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	12	117.5	468.	4100.	9.	1327606.364	1152.218	11.4	19.75	296.75	3004.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	12	1695.	1849.167	2600.	940.	325990.152	570.955	991.	1440.	2397.5	2585.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	6	9.7	9.767	10.6	9.	0.407	0.638	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	6	92.	92.167	100.	84.	38.167	6.178	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	9	8.5	8.411	8.6	8.1	0.031	0.176	8.1	8.25	8.55	8.6
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	9	8.5	8.377	8.6	8.1	0.032	0.18	8.1	8.25	8.55	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	9	0.003	0.004	0.008	0.003	0.	0.002	0.003	0.003	0.006	0.008

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Annual Analysis for 1975 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	3	17.	17.667	22.	14.	16.333	4.041	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	3	814.	912.	1850.	72.	797524.	893.042	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	3	1080.	1413.333	2140.	1020.	396933.333	630.026	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	3	8.4	8.2	9.	7.2	0.84	0.917	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	3	93.	91.333	93.	88.	8.333	2.887	**	**	**	**

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Annual Analysis for 1975 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	3	8.5	8.5	8.6	8.4	0.01	0.1	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	3	8.5	8.492	8.6	8.4	0.01	0.1	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	3	0.003	0.003	0.004	0.003	0.	0.001	**	**	**	**

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Annual Analysis for 1976 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	8	12.	11.063	23.	0.	76.674	8.756	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	8	31.	75.875	247.	4.	8471.839	92.043	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	8	1960.	1763.75	2200.	840.	212141.071	460.588	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	8	9.6	10.225	12.	8.6	2.108	1.452	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	8	99.5	99.	109.	87.	69.714	8.35	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.7	8.525	8.9	7.8	0.165	0.406	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.7	8.33	8.9	7.8	0.209	0.457	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	8	0.002	0.005	0.016	0.001	0.	0.005	**	**	**	**

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Annual Analysis for 1977 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	11	6.	9.636	24.5	0.	62.905	7.931	0.4	2.	16.	23.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	11	291.	718.273	3710.	10.	1184013.018	1088.124	20.8	93.	1073.	3242.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	11	1400.	1348.636	1960.	720.	128410.455	358.344	776.	1090.	1670.	1913.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	8	9.3	8.925	11.8	3.8	5.771	2.402	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	8	92.	85.	105.	29.	606.571	24.629	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.35	8.387	8.6	8.2	0.027	0.164	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.347	8.361	8.6	8.2	0.028	0.167	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	8	0.004	0.004	0.006	0.003	0.	0.002	**	**	**	**

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Annual Analysis for 1978 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	12	7.5	8.958	20.	0.	51.975	7.209	0.3	2.25	16.625	19.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	3	-6.	4.167	11.5	-6.	82.583	9.088	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	12	1462.5	5649.	27900.	19.	74865359.455	8652.477	33.1	117.5	8775.	24480.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	12	1212.5	1280.	2900.	400.	666586.364	816.447	406.	458.75	1915.	2660.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	8	7.9	8.438	11.4	5.6	3.84	1.96	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	5	80.	83.2	96.	76.	65.2	8.075	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.45	8.413	8.7	8.1	0.041	0.203	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.447	8.371	8.7	8.1	0.043	0.208	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	8	0.004	0.004	0.008	0.002	0.	0.002	**	**	**	**

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Annual Analysis for 1979 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	11	6.	6.818	21.	0.	47.814	6.915	0.	0.5	12.	19.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	8	4.5	5.125	23.	-12.	123.839	11.128	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	11	94.	1682.818	6190.	12.	5114255.764	2261.472	13.	18.	3120.	5992.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	11	2020.	1747.273	3500.	630.	954921.818	977.201	640.	710.	2550.	3350.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	8	10.25	9.775	12.	5.2	5.774	2.403	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	3	89.	87.333	94.	79.	58.333	7.638	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.1	8.175	8.6	7.8	0.091	0.301	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.1	8.094	8.6	7.8	0.098	0.313	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	8	0.008	0.008	0.016	0.003	0.	0.005	**	**	**	**

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Annual Analysis for 1980 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	9	6.5	9.056	23.	0.	68.59	8.282	0.	3.	16.25	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	6	3.25	5.25	28.	-15.	199.275	14.116	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	3	713.	709.333	717.	698.	100.333	10.017	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	8	26.	93.75	459.	5.	24736.786	157.279	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	9	2000.	2245.556	3980.	1350.	851027.778	922.512	1350.	1430.	3050.	3980.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	7	10.8	10.314	12.2	7.8	3.145	1.773	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	6	94.	94.5	107.	86.	60.3	7.765	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	7	8.4	8.4	8.8	8.1	0.063	0.252	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	7	8.4	8.343	8.8	8.1	0.067	0.259	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	7	0.004	0.005	0.008	0.002	0.	0.002	**	**	**	**

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Annual Analysis for 1981 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	38	6.	6.289	22.	0.	23.346	4.832	1.9	2.875	7.125	12.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	12	11.25	11.667	28.	-2.	98.061	9.903	3.25	6.875	19.25	27.7
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	8	712.	712.875	751.	689.	336.125	18.334	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	13	27.	126.231	812.	2.	51893.859	227.802	4.	10.5	158.	612.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	12	2425.	2324.167	3350.	1200.	443281.061	665.794	1260.	1762.5	2775.	3275.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	34	11.4	11.147	12.8	8.	1.056	1.028	9.4	11.2	11.6	11.9
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	34	96.	95.824	104.	88.	22.15	4.706	89.5	91.75	100.	102.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	9	8.7	8.7	8.9	8.5	0.013	0.112	8.5	8.65	8.75	8.9
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	9	8.7	8.687	8.9	8.5	0.013	0.113	8.5	8.65	8.75	8.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	9	0.002	0.002	0.003	0.001	0.	0.001	0.001	0.002	0.002	0.003

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Annual Analysis for 1982 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	18	8.	8.722	20.	0.	28.212	5.312	0.45	7.625	8.	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	6	18.5	8.75	21.	-17.	204.975	14.317	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	5	705.	707.2	729.	689.	213.2	14.601	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	8	496.	1024.5	2770.	62.	1283157.714	1132.766	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	18	833.	998.833	2100.	425.	197418.971	444.319	706.7	773.75	1037.5	1762.5
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	16	10.8	10.519	12.	8.3	0.796	0.892	8.51	10.65	10.8	11.16

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Annual Analysis for 1982 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	16	99.	96.813	99.	86.	17.763	4.215	87.4	95.75	99.	99.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	16	7.8	7.819	8.	7.5	0.027	0.164	7.5	7.8	7.975	8.
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	16	7.8	7.787	8.	7.5	0.028	0.167	7.5	7.8	7.975	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	16	0.016	0.016	0.032	0.01	0.	0.007	0.01	0.011	0.016	0.032
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	11	1.3	1.091	1.8	0.	0.345	0.587	0.08	0.7	1.6	1.78

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Annual Analysis for 1983 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	41	10.5	12.668	26.	0.	64.502	8.031	3.84	5.5	23.	23.16
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	10	12.	10.4	29.	-10.	144.656	12.027	1.3	4.375	28.625	-6.1
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	9	711.	709.667	714.	698.	24.75	4.975	698.	708.	713.5	714.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	9	101.	129.778	324.	42.	9219.694	96.019	42.	51.5	206.	324.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	41	2140.	1785.976	2440.	640.	338395.274	581.718	1000.	1005.	2255.	2278.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	41	10.	9.795	12.4	7.8	2.03	1.425	8.	8.	11.	11.84
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	3	95.	93.	96.	88.	19.	4.359	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	40	8.4	8.339	8.7	7.86	0.11	0.331	7.882	7.9	8.65	8.7
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	40	8.4	8.213	8.7	7.86	0.126	0.354	7.882	7.9	8.65	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	40	0.004	0.006	0.014	0.002	0.	0.005	0.002	0.002	0.013	0.013
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	32	0.8	0.928	2.6	0.2	0.353	0.594	0.33	0.6	1.	2.09

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Annual Analysis for 1984 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	56	1.5	9.661	22.	0.5	100.537	10.027	0.5	0.5	20.5	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	10	8.75	12.7	26.	4.	80.178	8.954	4.	4.	20.75	26.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	9	704.	704.889	712.	699.	21.611	4.649	699.	701.5	708.5	712.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	10	109.	903.	3280.	29.	1737580.	1318.173	29.	29.	1615.	3280.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	56	1600.	1809.821	2600.	1010.	449558.149	670.491	1030.	1070.	2600.	2600.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	55	12.2	10.778	12.9	8.	4.77	2.184	8.	8.5	12.9	12.9
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	55	8.2	8.238	8.5	7.8	0.048	0.219	7.8	8.2	8.45	8.5
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	55	8.2	8.178	8.5	7.8	0.052	0.227	7.8	8.2	8.45	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	55	0.006	0.007	0.016	0.003	0.	0.004	0.003	0.004	0.006	0.016
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	51	1.	1.124	3.8	0.	0.801	0.895	0.	0.5	1.5	2.64

** - 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 1985 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	46	9.	10.25	18.	1.5	46.331	6.807	1.5	1.5	16.	18.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	7	15.	13.786	22.	2.	46.071	6.788	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	7	700.	652.	714.	346.	18290.667	135.243	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	7	50.	509.429	3260.	9.	1473888.952	1214.038	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	46	1500.	1479.674	2530.	500.	580284.891	761.764	510.	517.5	1927.5	2523.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	46	9.65	10.111	12.7	5.1	3.867	1.967	8.6	8.6	12.6	12.63
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	46	8.4	8.318	8.66	4.3	0.41	0.64	8.11	8.13	8.6	8.64
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	46	8.4	5.961	8.66	4.3	6.091	2.468	8.11	8.13	8.6	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 1985 - Station THRO0006

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	11/04/71-03/18/96	46	0.004	1.094	50.119	0.002	54.597	7.389	0.002	0.003	0.007	0.008
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	43	0.9	1.66	5.	0.4	1.814	1.347	0.5	0.6	3.1	3.5

** - 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 1986 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	56	18.	13.375	26.	0.5	114.148	10.684	0.5	3.	26.	26.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	8	15.75	14.	26.5	-5.5	136.071	11.665	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	8	706.	707.375	715.	703.	17.982	4.241	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	8	238.	1370.	3860.	167.	2870146.286	1694.151	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	55	1240.	1218.182	2400.	530.	422363.3	649.895	540.	850.	1250.	2380.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	56	9.	10.114	13.1	7.5	5.244	2.29	7.5	7.5	12.2	13.1
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	12	97.	96.833	98.	96.	0.333	0.577	96.	96.25	97.	97.7
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	56	8.21	8.051	8.43	7.55	0.079	0.281	7.55	8.1	8.228	8.26
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	56	8.21	7.945	8.43	7.55	0.09	0.3	7.55	8.1	8.227	8.26
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	56	0.006	0.011	0.028	0.004	0.	0.009	0.005	0.006	0.008	0.028
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	51	2.5	2.42	4.8	0.3	1.503	1.226	0.72	1.5	3.5	4.2

** - 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 1987 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	54	5.	9.139	25.	0.	50.778	7.126	0.5	0.5	14.875	17.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	7	13.	11.286	23.	-2.5	93.655	9.678	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	6	704.5	705.	709.	702.	5.6	2.366	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	7	67.	569.857	3220.	20.	1382489.143	1175.793	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	41	1860.	1628.902	2550.	700.	461764.39	679.532	700.	715.	2280.	2280.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	53	11.7	10.858	13.2	7.9	3.136	1.771	8.9	9.2	13.	13.2
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	34	98.	98.471	99.	98.	0.257	0.507	98.	98.	99.	99.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	52	8.44	8.358	8.52	8.02	0.038	0.195	8.05	8.07	8.5	8.52
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	52	8.44	8.311	8.52	8.02	0.04	0.2	8.05	8.07	8.5	8.52
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	52	0.004	0.005	0.01	0.003	0.	0.002	0.003	0.003	0.009	0.009
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	51	0.9	1.351	5.7	0.	1.483	1.218	0.	0.6	1.8	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

Annual Analysis for 1988 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	37	1.	5.662	23.5	1.	33.612	5.798	1.	1.	9.	9.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	4	15.75	15.25	24.5	5.	103.75	10.186	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	4	703.	703.25	711.	696.	38.25	6.185	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	5	22.	81.2	307.	0.	16533.7	128.583	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	36	1800.	2010.556	2780.	1750.	79073.968	281.201	1750.	1760.	2260.	2260.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	37	12.4	11.516	12.6	7.8	1.468	1.211	10.8	10.8	12.5	12.52
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	16	101.	100.688	101.	96.	1.563	1.25	99.5	101.	101.	101.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	37	8.29	8.426	8.63	8.27	0.022	0.149	8.278	8.285	8.58	8.58
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	37	8.29	8.402	8.63	8.27	0.023	0.151	8.278	8.285	8.58	8.58
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	37	0.005	0.004	0.005	0.002	0.	0.001	0.003	0.003	0.005	0.005
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	35	1.	1.071	2.3	0.	0.346	0.588	0.26	0.7	1.5	1.92

** - Less 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 THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	59	8.	12.542	23.5	0.5	53.089	7.286	4.	4.	17.5	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	8	15.75	16.563	29.	4.5	102.174	10.108	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	4	703.	703.5	708.	700.	13.667	3.697	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	8	56.5	292.25	1740.	3.	355067.071	595.875	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	45	1930.	2072.667	2720.	780.	159024.545	398.779	1900.	1905.	2500.	2500.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	54	10.25	10.344	12.1	9.	1.492	1.221	9.	9.	11.25	12.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	53	8.55	8.488	8.64	8.17	0.03	0.172	8.17	8.54	8.625	8.64
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	53	8.55	8.451	8.64	8.17	0.031	0.176	8.17	8.54	8.625	8.64
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	53	0.003	0.004	0.007	0.002	0.	0.002	0.002	0.002	0.003	0.007
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	57	0.7	0.97	2.5	0.	0.646	0.804	0.	0.3	1.85	2.1

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Annual Analysis for 1990 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	65	22.5	14.523	24.	0.5	86.621	9.307	0.5	9.	23.25	23.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	8	24.	18.25	30.5	-9.	173.5	13.172	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	16	683.	687.063	709.	683.	78.996	8.888	683.	683.	683.	706.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	8	152.5	172.875	441.	1.	29831.268	172.717	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	65	1240.	1753.477	4000.	680.	1429893.378	1195.781	682.	683.5	1635.	4000.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	61	8.	9.844	13.1	7.9	4.517	2.125	7.9	7.95	11.05	13.1
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	48	100.	94.417	103.	0.	607.95	24.657	100.	100.	102.	102.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	61	8.44	8.305	8.53	7.92	0.058	0.24	7.94	7.94	8.515	8.53
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	61	8.44	8.234	8.53	7.92	0.063	0.25	7.94	7.94	8.515	8.53
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	61	0.004	0.006	0.012	0.003	0.	0.004	0.003	0.003	0.011	0.011
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	59	1.	1.042	2.6	0.	0.315	0.561	0.4	0.5	1.5	1.7

** - 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 1991 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	59	11.	12.458	26.	0.5	142.494	11.937	0.5	0.5	26.	26.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	9	-7.5	10.333	31.	-7.5	180.5	13.435	3.	4.	22.5	31.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	43	704.	701.907	704.	696.	12.372	3.517	696.	696.	704.	704.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	9	50.	112.444	357.	17.	19462.778	139.509	17.	27.5	217.	357.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	59	1470.	1463.898	1890.	950.	119344.886	345.463	950.	1100.	1880.	1880.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	54	7.6	10.009	13.1	7.5	6.612	2.571	7.5	7.6	13.	13.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	54	8.48	8.444	8.56	8.27	0.01	0.098	8.28	8.42	8.54	8.545
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	54	8.48	8.433	8.56	8.27	0.01	0.099	8.28	8.42	8.54	8.545
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	54	0.003	0.004	0.005	0.003	0.	0.001	0.003	0.003	0.004	0.005
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	50	0.85	0.874	1.9	0.2	0.237	0.487	0.3	0.475	1.3	1.59

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Annual Analysis for 1992 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	15	13.1	11.113	25.6	0.	63.258	7.954	0.	0.5	14.	22.78
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	10	16.5	11.33	23.8	-10.	128.667	11.343	1.5	7.5	23.2	-6.62
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	4	714.	722.25	755.	706.	496.917	22.292	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	11	34.	88.364	386.	2.	13662.855	116.888	2.4	6.	146.	348.6

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Annual Analysis for 1992 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	16	2400.	2054.563	2670.	645.	537411.863	733.084	708.	1401.5	2660.	2663.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	9	10.2	9.467	10.5	6.6	2.23	1.493	6.6	8.6	10.2	10.5
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.395	8.284	8.45	7.83	0.047	0.216	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	8	8.395	8.228	8.45	7.83	0.05	0.224	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	8	0.004	0.006	0.015	0.004	0.	0.004	**	**	**	**
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	5	0.5	0.44	0.5	0.3	0.008	0.089	**	**	**	**

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Annual Analysis for 1993 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	21	18.2	17.062	19.	1.	19.932	4.465	9.1	18.1	18.9	19.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	5	18.	17.92	22.5	10.	23.457	4.843	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	3	714.	713.667	718.	709.	20.333	4.509	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	5	361.	652.4	1903.	63.	555791.8	745.514	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	21	1176.	1206.524	1730.	633.	49712.062	222.962	790.	1173.	1336.	1339.4
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	18	9.1	8.806	10.6	7.7	0.631	0.794	7.79	7.875	9.2	9.43
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	19	8.	8.191	8.65	7.9	0.078	0.279	7.9	8.	8.49	8.5
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	19	8.	8.115	8.65	7.9	0.084	0.289	7.9	8.	8.49	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	19	0.01	0.008	0.013	0.002	0.	0.004	0.003	0.003	0.01	0.013

** - 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 box-and-whisker plot

Annual Analysis for 1994 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	2	2.6	2.6	4.	1.2	3.92	1.98	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	2	8.6	8.6	14.	3.2	58.32	7.637	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	1	713.	713.	713.	713.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	2	615.	615.	1130.	100.	530450.	728.32	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	2	977.5	977.5	1278.	677.	180600.5	424.971	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	1	8.05	8.05	8.05	8.05	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	1	8.05	8.05	8.05	8.05	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	1	0.009	0.009	0.009	0.009	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 1995 - Station THRO0006

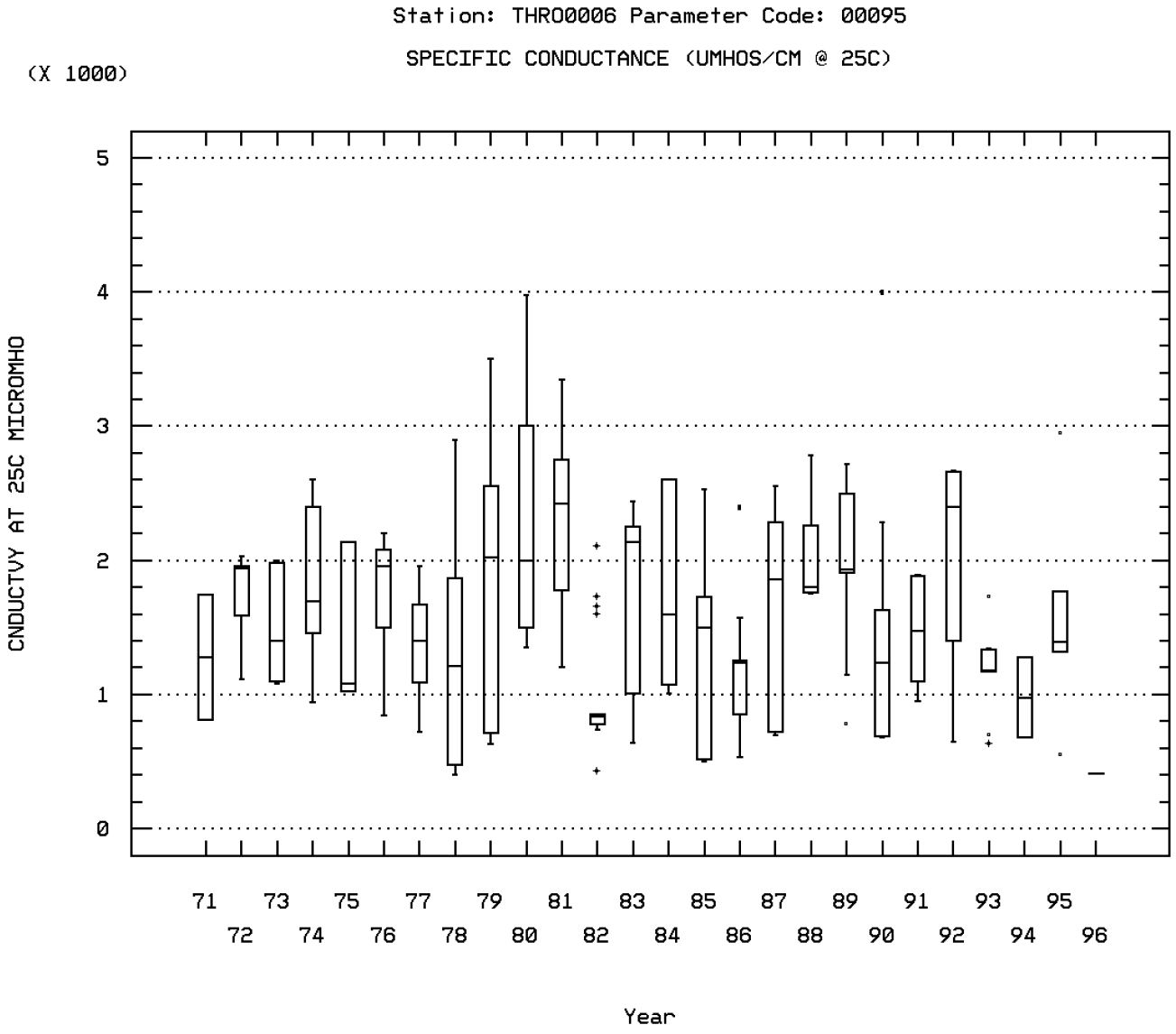
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	6	10.25	10.6	21.	0.1	89.724	9.472	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	6	20.1	11.117	25.5	-12.	190.442	13.8	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	6	139.	820.	4328.	16.	2958252.4	1719.957	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	6	1395.	1562.5	2950.	545.	625377.5	790.808	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	2	8.67	8.67	9.23	8.11	0.627	0.792	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	2	8.379	8.379	9.23	8.11	0.796	0.892	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	2	0.004	0.004	0.008	0.001	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 box-and-whisker plot

Annual Analysis for 1996 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	1	5002.	5002.	5002.	5002.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	1	8.47	8.47	8.47	8.47	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	1	8.47	8.47	8.47	8.47	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**

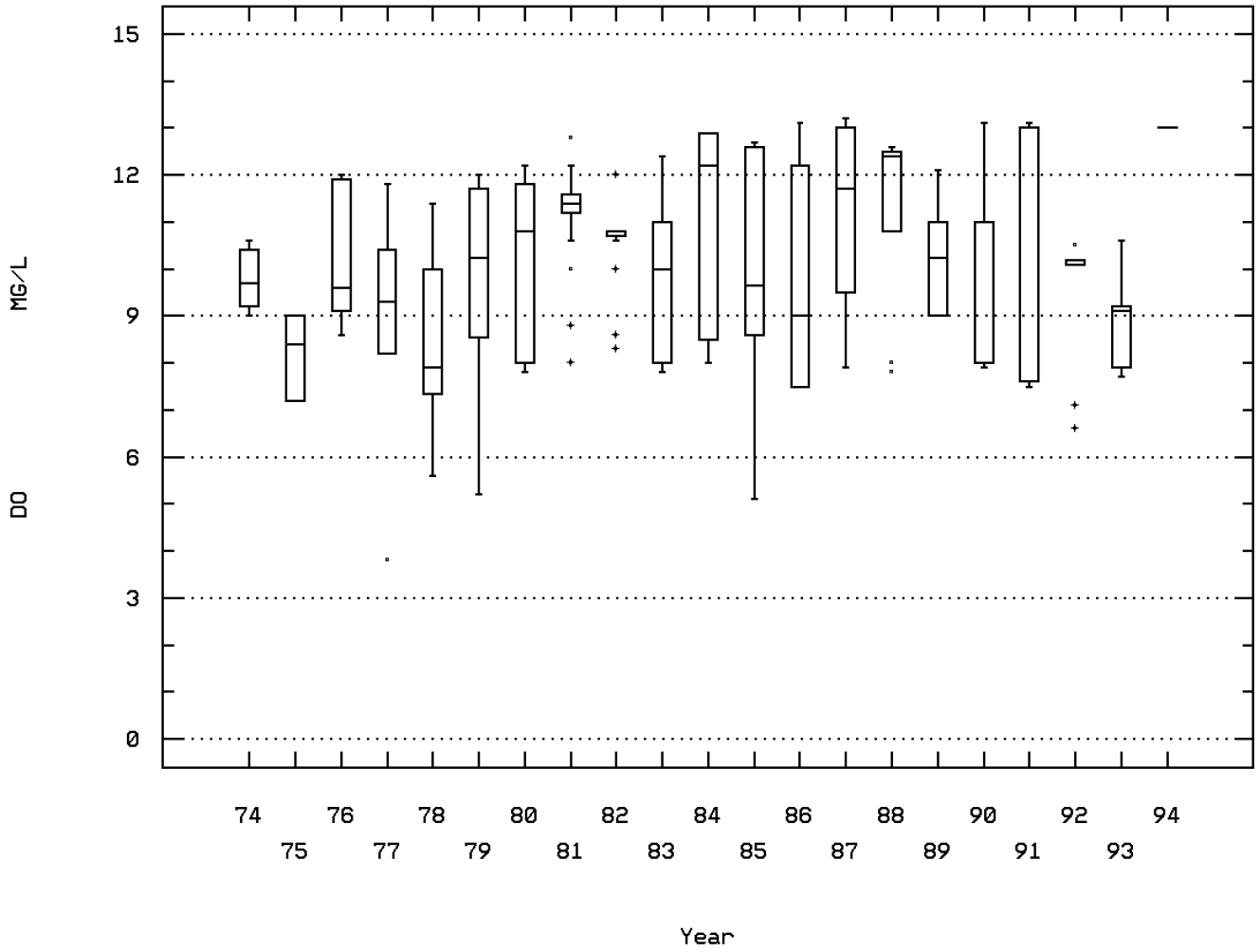
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



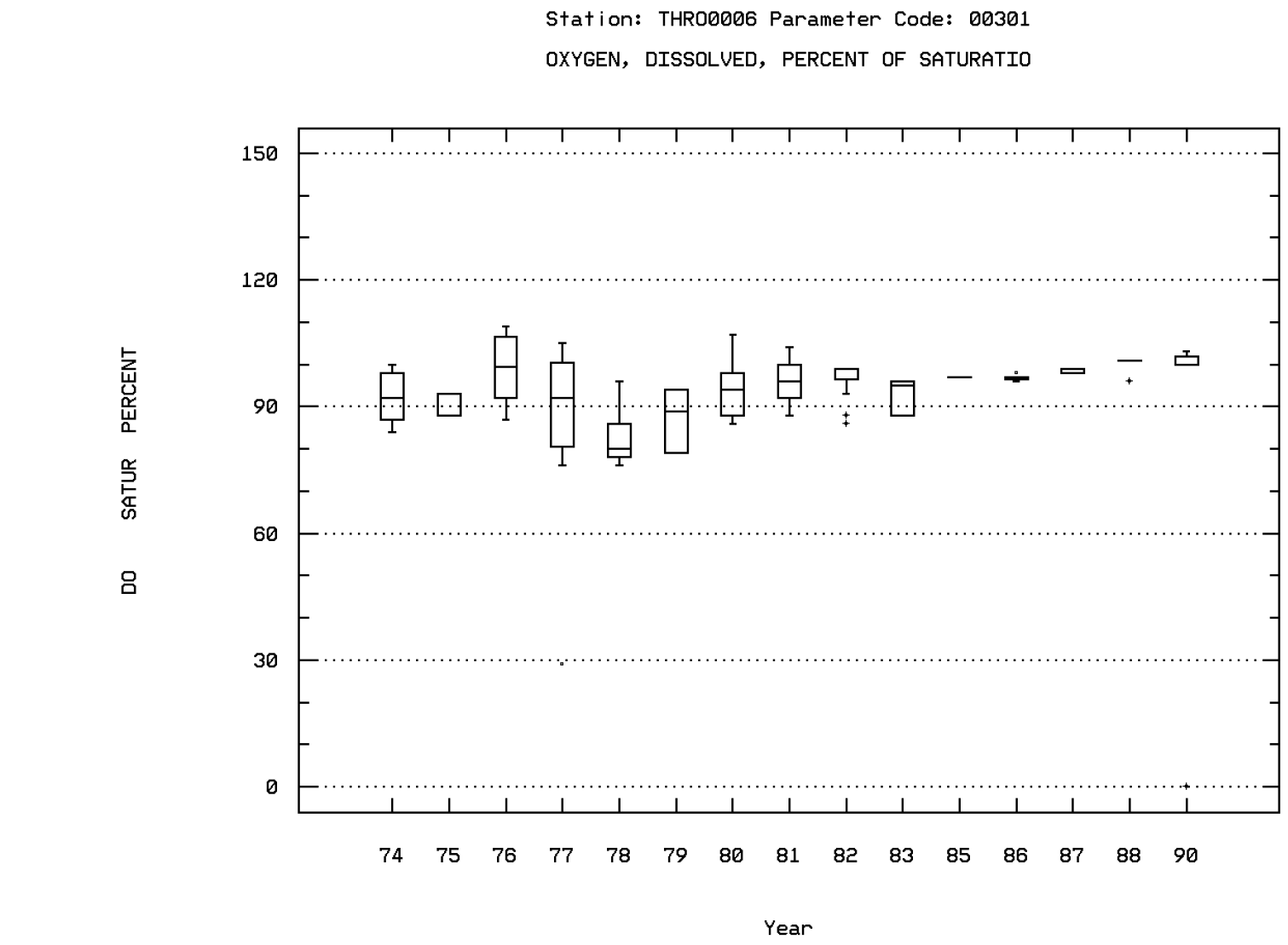
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00300

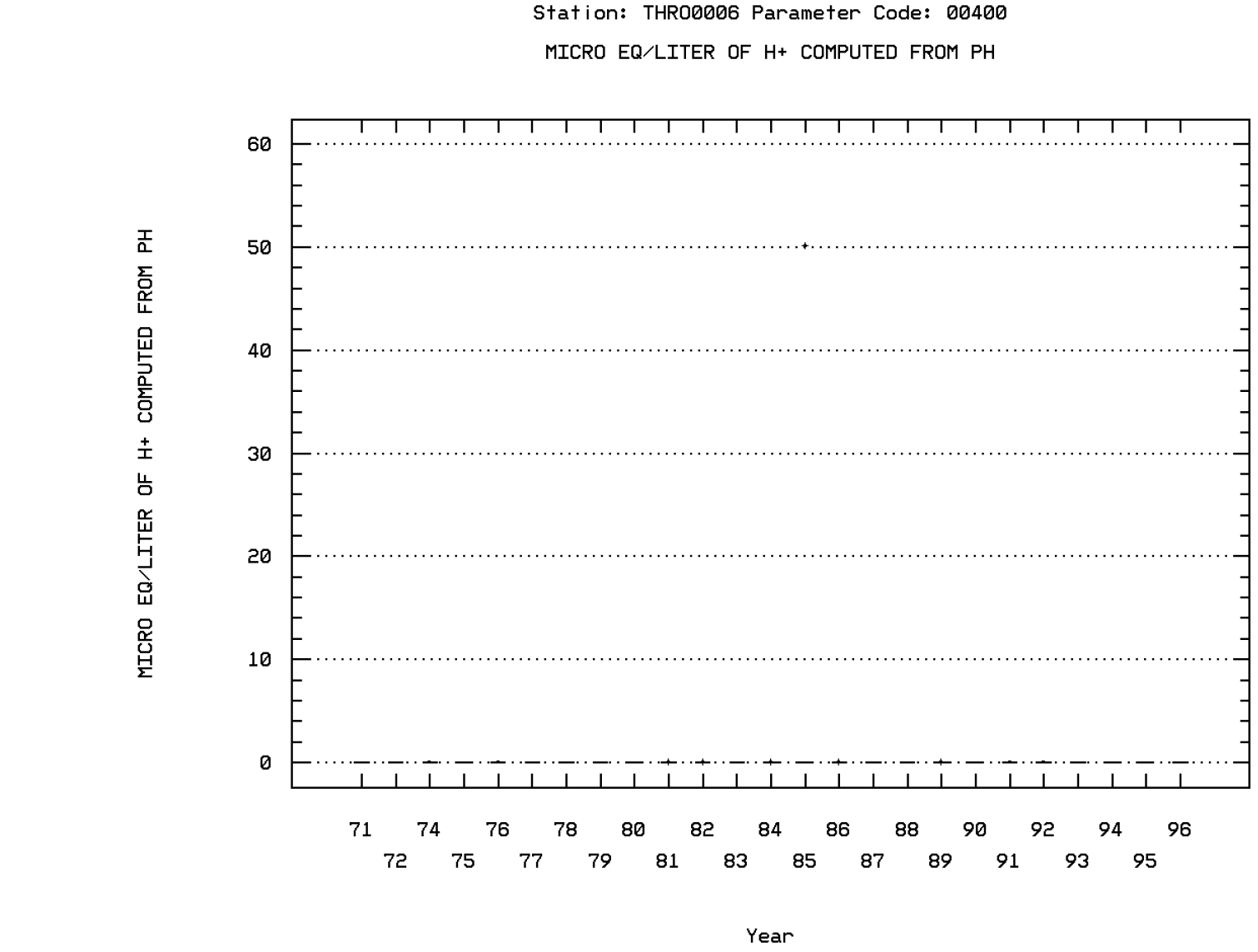
OXYGEN, DISSOLVED



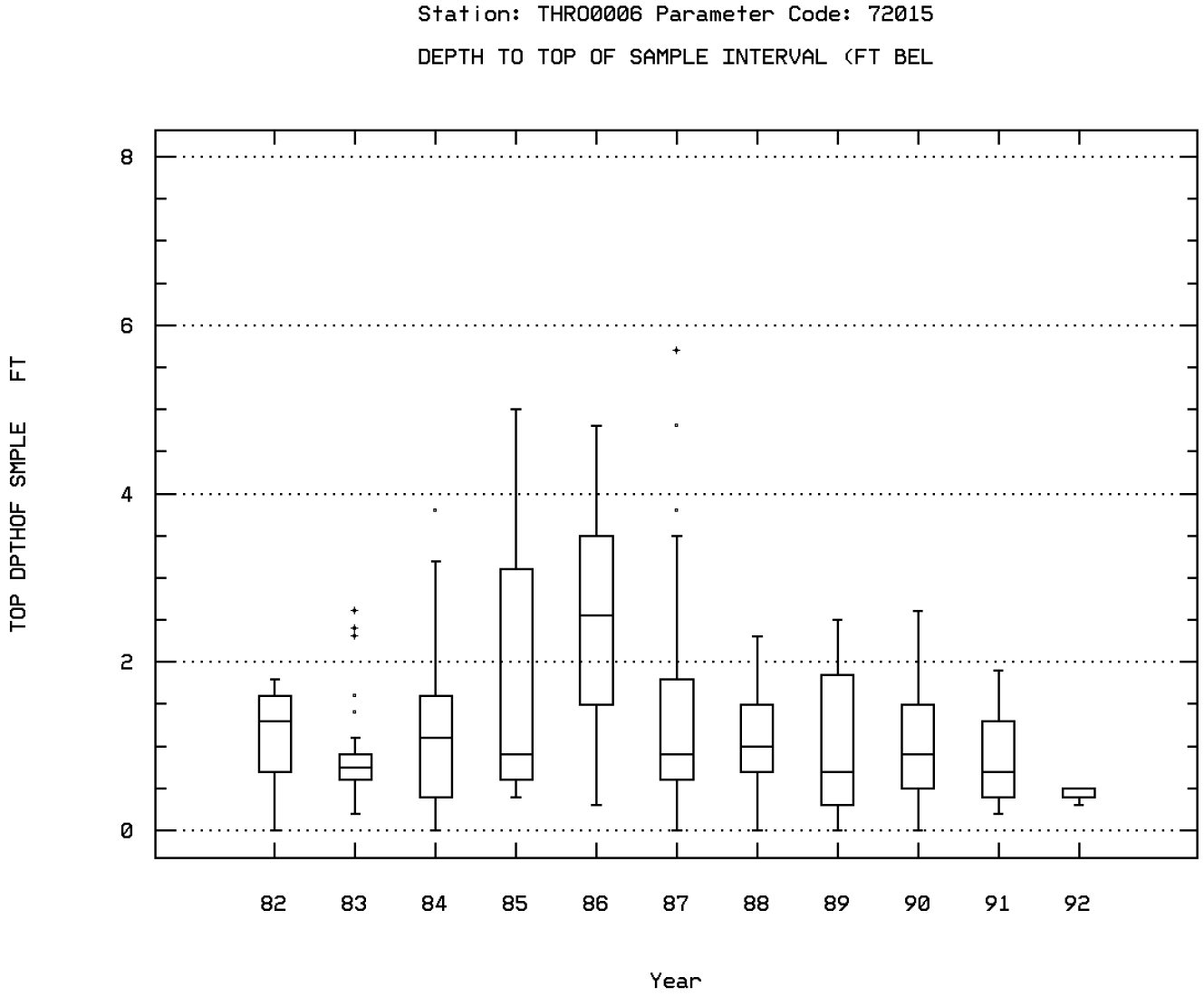
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LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Seasonal Analysis for Season #1: 8/01 to 2/14 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	342	8.	10.737	27.	0.	82.094	9.061	0.5	0.5	20.5	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	66	13.25	10.155	30.5	-17.	148.531	12.187	4.35	8.875	23.2	29.45
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	60	700.5	694.883	729.	346.	2248.308	47.416	683.	692.	712.	716.8
00032	CLOUD COVER (PERCENT)	10/26/82-11/21/91	16	30.	44.375	100.	0.	1526.25	39.067	0.	11.25	90.	100.
00035	WIND VELOCITY (MILES PER HOUR)	10/26/82-11/21/91	16	13.	13.063	32.	5.	42.063	6.486	5.	8.25	15.	22.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	89	34.	109.056	2290.	0.	85520.576	292.439	5.	12.5	92.5	184.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/11/76-03/30/94	44	125.	1914.336	13000.	0.	11610810.87	3407.464	3.	19.	1775.	8750.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	291	1900.	1922.739	4000.	645.	626161.635	791.304	840.	1334.	2500.	2600.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	304	10.4	10.26	13.2	3.8	4.171	2.042	7.5	8.425	12.	13.05
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	110	98.	92.882	107.	0.	313.39	17.703	87.1	92.75	100.	100.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	284	8.4	8.31	8.9	4.3	0.123	0.351	7.92	8.2	8.5	8.63
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	284	8.4	6.739	8.9	4.3	2.6	1.612	7.92	8.2	8.5	8.63
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	284	0.004	0.182	50.119	0.001	8.843	2.974	0.002	0.003	0.006	0.012
00403	PH, LAB, STANDARD UNITS SU	11/11/80-08/23/95	27	8.2	8.159	8.6	7.	0.123	0.35	7.68	8.	8.4	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	11/11/80-08/23/95	27	8.2	7.956	8.6	7.	0.165	0.407	7.68	8.	8.4	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/80-08/23/95	27	0.006	0.011	0.1	0.003	0.	0.019	0.003	0.004	0.01	0.021
00405	CARBON DIOXIDE (MG/L AS CO2)	11/04/71-09/15/81	24	2.	3.112	10.	0.6	7.785	2.79	0.75	1.2	4.375	8.55
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/04/71-08/01/90	44	341.	316.682	580.	99.	14835.106	121.799	138.	222.5	386.25	495.
00440	BICARBONATE ION (MG/L AS HCO3)	11/04/71-08/05/86	22	400.5	362.5	648.	130.	16291.786	127.639	163.	260.	448.	496.3
00445	CARBONATE ION (MG/L AS CO3)	11/04/71-08/05/86	22	0.	3.727	28.	0.	50.874	7.133	0.	0.	4.75	14.4
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-09/15/81	30	1.2	2.314	20.	0.46	15.181	3.896	0.626	0.818	1.7	5.26
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/78-10/22/85	19	1.1	2.493	19.	0.57	19.415	4.406	0.58	0.64	1.5	8.5
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/79-03/30/94	32	0.045	0.096	0.5	0.	0.017	0.131	0.002	0.02	0.108	0.329
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/12/77-10/05/92	34	0.05	0.117	0.91	0.	0.033	0.18	0.008	0.02	0.115	0.33
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/11/76-10/05/92	16	0.02	0.024	0.06	0.005	0.	0.016	0.009	0.013	0.028	0.06
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/12/77-08/28/91	22	0.695	0.915	2.1	0.31	0.279	0.528	0.413	0.57	1.275	1.87
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-03/30/94	51	1.2	2.169	19.	0.	9.666	3.109	0.558	0.7	2.	5.84
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-10/05/92	38	0.085	0.379	2.4	0.	0.344	0.587	0.01	0.02	0.49	1.42
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/12/79-03/30/94	33	0.2	0.476	2.4	0.	0.38	0.616	0.004	0.05	0.75	1.58
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/74-03/30/94	55	0.08	0.98	17.	0.	7.328	2.707	0.016	0.03	0.92	2.28
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/77-03/30/94	44	0.01	0.019	0.1	0.	0.	0.019	0.005	0.005	0.03	0.04
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/04/71-03/30/94	23	0.005	0.011	0.04	0.	0.	0.013	0.	0.005	0.02	0.036
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/23/74-09/15/81	14	17.5	33.093	125.	8.3	1242.767	35.253	9.65	12.75	35.5	112.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/04/71-04/14/83	41	380.	375.951	750.	87.	28759.148	169.585	124.	230.	450.	668.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	11/04/71-08/23/95	61	72.	73.967	160.	0.	1191.266	34.515	28.4	48.5	92.	118.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/04/71-08/23/95	61	39.	37.282	95.	0.	439.122	20.955	11.	19.	48.5	70.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/04/71-08/23/95	61	340.	349.721	800.	0.	23137.404	152.11	146.	250.	430.	548.
00931	SODIUM ADSORPTION RATIO	11/04/71-04/14/83	41	8.1	8.224	14.	2.8	5.882	2.425	5.24	6.65	9.6	12.
00932	SODIUM, PERCENT	11/04/71-04/14/83	41	66.	67.317	87.	47.	64.222	8.014	58.4	62.	71.	79.8
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	11/04/71-08/23/95	61	11.	11.043	25.	0.	13.693	3.7	6.56	9.1	13.	14.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	11/04/71-08/23/95	61	11.	12.361	35.	0.	35.234	5.936	5.2	9.	16.	19.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	11/04/71-08/23/95	61	750.	719.189	1500.	0.	107235.668	327.469	290.	490.	905.	1180.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/04/71-08/23/95	61	0.4	0.375	0.9	0.	0.019	0.14	0.2	0.3	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	11/04/71-03/30/94	60	9.95	9.952	16.	0.	6.844	2.616	7.2	8.45	11.	13.
01000p	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/74-08/23/95	31	1.	1.677	6.	0.5	1.476	1.215	1.	1.	2.	3.
01001	ARSENIC, SUSPENDED (UG/L AS AS)	04/23/74-08/24/82	12	2.5	11.417	56.	0.	330.583	18.182	0.15	0.625	13.5	51.5
01002	ARSENIC, TOTAL (UG/L AS AS)	04/23/74-08/24/82	22	4.5	24.591	160.	1.	1560.825	39.507	2.	2.	43.	87.4
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/08/77-03/30/94	30	50.	80.267	300.	0.	5451.444	73.834	25.	49.25	100.	200.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/26/82-08/28/91	16 ##	0.8	2.397	5.	0.25	5.658	2.379	0.25	0.25	5.	5.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/74-08/28/91	30 ##	0.5	0.667	5.	0.	0.816	0.903	0.	0.5	0.5	1.
01027	CADMIUM, TOTAL (UG/L AS CD)	04/23/74-08/24/82	19 ##	1.	4.368	20.	0.	31.329	5.597	0.	0.5	10.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/74-08/28/91	30 ##	0.5	1.467	10.	0.	7.12	2.668	0.	0.	1.25	5.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	04/23/74-08/11/81	12	10.	25.667	160.	0.	2268.97	47.634	0.	0.	17.5	136.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/23/74-08/24/82	22	10.	75.364	440.	0.	14752.909	121.462	0.	9.5	107.5	297.
01035p	COBALT, DISSOLVED (UG/L AS CO)	04/23/74-03/30/94	34 ##	1.5	1.353	13.	0.	4.857	2.204	0.	0.	1.5	2.
01037	COBALT, TOTAL (UG/L AS CO)	04/23/74-08/24/82	22	50.	62.136	300.	0.	6653.933	81.572	0.3	4.5	58.	228.
01040	COPPER, DISSOLVED (UG/L AS CU)	04/23/74-08/28/91	30	6.	7.5	36.	1.	44.534	6.673	2.	3.	10.25	13.
01041	COPPER, SUSPENDED (UG/L AS CU)	04/23/74-08/24/82	14	20.	59.893	300.	0.	8108.007	90.044	0.5	7.125	94.75	255.
01042	COPPER, TOTAL (UG/L AS CU)	04/23/74-08/24/82	22	28.5	146.5	1000.	1.	58673.69	242.227	4.2	10.	242.5	483.

** - Less 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 2/14 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045	IRON, TOTAL (UG/L AS FE)	04/23/74-08/24/82	22	8350.	74896.818	570000.	450.	18033962794.156	134290.591	756.	2175.	104750.	231000.
01046p	IRON, DISSOLVED (UG/L AS FE)	11/04/71-08/23/95	39	30.	86.744	1300.	0.	45501.669	213.311	0.	11.	70.	210.
01049p	LEAD, DISSOLVED (UG/L AS PB)	04/23/74-08/23/95	31	1.	1.968	13.	0.	6.266	2.503	0.	0.5	2.5	4.8
01050	LEAD, SUSPENDED (UG/L AS PB)	04/23/74-08/24/82	13	43.5	53.923	250.	2.	4608.702	67.887	2.8	8.	80.	190.
01051	LEAD, TOTAL (UG/L AS PB)	04/23/74-08/24/82	18	81.5	82.778	400.	2.	10355.948	101.764	2.9	8.5	100.	265.
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/74-08/24/82	14	160.	803.571	4100.	0.	1744686.264	1320.866	5.	27.5	1450.	3650.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/74-08/24/82	21	200.	2083.333	17000.	40.	15559663.333	3944.574	52.	80.	3450.	6580.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	11/04/71-08/23/95	39	6.	16.103	90.	0.	378.397	19.452	2.	4.	20.	40.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/26/82-08/23/95	21	5.	5.548	20.	0.	16.898	4.111	0.6	4.	5.5	10.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/13/79-03/30/94	26	5.	6.712	35.	0.	42.123	6.49	1.55	4.	7.25	10.9
01075	SILVER, DISSOLVED (UG/L AS AG)	11/08/77-03/30/94	30 ##	0.5	0.367	1.	0.	0.068	0.26	0.	0.	0.5	0.5
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/26/82-08/23/95	21	640.	601.905	1600.	0.	116106.19	340.744	210.	390.	815.	908.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/26/82-03/30/94	20 ##	3.	3.	6.	0.	1.474	1.214	1.1	3.	3.	4.9
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/74-08/28/91	30	10.	13.867	60.	0.	211.964	14.559	1.5	4.75	20.	39.
01091	ZINC, SUSPENDED (UG/L ZN)	04/23/74-08/24/82	13	50.	192.308	1100.	0.	107485.897	327.85	0.	5.	275.	912.
01092	ZINC, TOTAL (UG/L AS ZN)	04/23/74-08/24/82	22	60.	417.273	2600.	10.	442401.732	665.133	13.	27.5	722.5	1450.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/26/82-03/30/94	20	25.	132.25	1600.	0.	125503.882	354.265	5.	12.5	57.5	270.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/26/82-08/23/95	21	50.	54.381	110.	0.	550.548	23.464	24.2	42.	70.	80.
01145p	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/74-08/23/95	35	1.	1.686	6.	0.	1.869	1.367	0.5	0.5	2.	4.
01146	SELENIUM, SUSPENDED (UG/L AS SE)	04/23/74-08/24/82	13	0.	0.538	3.	0.	1.103	1.05	0.	0.	1.	2.6
01147	SELENIUM, TOTAL (UG/L AS SE)	04/23/74-08/24/82	22	1.	2.545	9.	0.	7.522	2.743	0.5	0.5	4.25	7.7
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	41	50.	138.854	1400.	1.	64336.928	253.647	20.	25.	105.	371.2
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	41	1.699	1.776	3.146	0.	0.309	0.556	1.301	1.398	2.021	2.567
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			59.637								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	40	59.	102.8	700.	3.	20050.113	141.598	12.3	30.	130.	217.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	40	1.771	1.757	2.845	0.477	0.23	0.479	1.089	1.477	2.114	2.336
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			57.208								
60050	ALGAE, TOTAL (CELLS/ML)	07/17/74-09/15/81	21	7500.	33421.714	240000.	26.	3102204143.714	55697.434	684.	3000.	49500.	87000.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/04/71-08/23/95	61	1480.	1460.836	3150.	0.	406950.073	637.926	600.8	1045.	1790.	2322.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/04/71-04/14/83	40	1505.	1535.65	2930.	530.	350232.079	591.804	635.4	1155.	1812.5	2451.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/04/71-10/26/82	41	130.	348.683	4110.	13.7	483104.52	695.057	37.9	55.4	307.	791.6
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/09/74-10/07/93	45	98.	91.422	100.	0.	324.159	18.004	68.	94.	100.	100.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/71-06/16/82	9	70.	66.222	87.	49.	238.444	15.442	49.	51.	81.5	87.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/25/72-06/16/82	6	93.	93.	99.	89.	12.8	3.578	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/03/71-06/16/82	9	99.	97.111	100.	84.	26.861	5.183	84.	96.5	100.	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/03/71-06/16/82	5	100.	99.	100.	96.	3.	1.732	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/10/79-10/22/85	15	0.12	0.193	0.64	0.	0.045	0.212	0.	0.04	0.22	0.634
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/16/79-10/22/85	19	0.31	1.736	8.	0.	6.712	2.591	0.03	0.06	3.1	7.4
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-09/15/81	30	5.35	10.23	89.	2.	297.833	17.258	2.73	3.65	7.325	23.
71890p	MERCURY, DISSOLVED (UG/L AS HG)	04/23/74-08/23/95	31 ##	0.05	0.123	0.5	0.	0.013	0.113	0.05	0.05	0.2	0.25
71895	MERCURY, SUSPENDED (UG/L AS HG)	04/23/74-08/24/82	13	0.1	0.192	1.1	0.	0.094	0.307	0.	0.	0.3	0.82
71900	MERCURY, TOTAL (UG/L AS HG)	04/23/74-08/24/82	22	0.25	0.502	2.4	0.05	0.362	0.601	0.05	0.1	0.725	1.44
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	216	0.8	0.912	3.4	0.	0.362	0.601	0.3	0.5	1.3	1.7
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/71-10/07/93	57	349.	2961.509	32300.	34.	36963274.183	6079.743	75.2	150.5	3700.	8340.
82130	ICE, THICKNESS IN FEET	05/02/83-11/21/91	14	0.	0.339	2.	0.	0.515	0.718	0.	0.	0.313	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

Seasonal Analysis for Season #2: 2/15 to 3/19 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	44	0.5	1.495	6.	0.	1.94	1.393	0.15	0.5	3.	3.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	12	8.75	3.583	14.	-10.	51.538	7.179	1.2	4.375	6.375	-2.8
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	18	704.	706.389	755.	698.	149.193	12.214	702.5	704.	704.	709.1
00032	CLOUD COVER (PERCENT)	10/26/82-11/21/91	2	20.	20.	40.	0.	800.	28.284	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	10/26/82-11/21/91	2	13.	13.	13.	13.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	15	386.	1542.	5002.	4.	3412120.286	1847.193	33.4	78.	3860.	4597.6

** - 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 #2: 2/15 to 3/19 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/11/76-03/30/94	5	920.	686.	1100.	20.	208080.	456.158	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	40	950.	848.625	1750.	410.	116448.702	341.246	531.	540.	960.	1400.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	30	12.3	12.393	13.1	6.6	1.382	1.176	12.2	12.2	13.	13.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	3	98.	98.	101.	95.	9.	3.	**	**	**	**
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	32	8.425	8.097	9.23	7.55	0.24	0.49	7.55	7.56	8.43	8.561
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	32	8.425	7.866	9.23	7.55	0.295	0.544	7.55	7.56	8.43	8.561
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	32	0.004	0.014	0.028	0.001	0.	0.012	0.003	0.004	0.028	0.028
00403	PH, LAB, STANDARD UNITS SU	11/11/80-08/23/95	5	8.1	7.92	8.3	7.4	0.157	0.396	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/11/80-08/23/95	5	8.1	7.774	8.3	7.4	0.184	0.429	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/80-08/23/95	5	0.008	0.017	0.04	0.005	0.	0.015	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/04/71-09/15/81	2	0.9	0.9	1.	0.8	0.02	0.141	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/04/71-08/01/90	2	151.	151.	212.	90.	7442.	86.267	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/04/71-08/05/86	1	259.	259.	259.	259.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/04/71-08/05/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-09/15/81	2	2.45	2.45	2.6	2.3	0.045	0.212	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/78-10/22/85	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/79-03/30/94	5	0.12	0.14	0.24	0.06	0.005	0.071	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/12/77-10/05/92	4	0.095	0.115	0.19	0.08	0.003	0.052	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/11/76-10/05/92	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/12/77-08/28/91	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-03/30/94	6	2.4	2.517	3.4	1.8	0.402	0.634	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-10/05/92	4	0.515	0.445	0.66	0.09	0.066	0.256	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/12/79-03/30/94	5	0.4	0.44	0.7	0.1	0.053	0.23	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/74-03/30/94	6	0.69	0.642	0.97	0.11	0.089	0.298	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/77-03/30/94	5	0.05	0.042	0.07	0.01	0.001	0.026	**	**	**	**
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/04/71-03/30/94	3	0.01	0.018	0.04	0.005	0.	0.019	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/23/74-09/15/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/04/71-04/14/83	3	150.	160.	190.	140.	700.	26.458	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	11/04/71-08/23/95	7	30.	32.714	53.	20.	116.571	10.797	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/04/71-08/23/95	7	14.	15.1	23.	8.7	23.77	4.875	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/04/71-08/23/95	7	180.	166.857	260.	65.	7473.476	86.449	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/04/71-04/14/83	3	8.1	7.067	9.4	3.7	8.923	2.987	**	**	**	**
00932	SODIUM, PERCENT	11/04/71-04/14/83	3	73.	69.667	79.	57.	129.333	11.372	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	11/04/71-08/23/95	7	6.7	7.857	15.	4.8	11.866	3.445	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	11/04/71-08/23/95	7	7.	7.857	16.	3.	18.476	4.298	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	11/04/71-08/23/95	7	290.	302.857	500.	170.	18390.476	135.611	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/04/71-08/23/95	7	0.3	0.257	0.4	0.1	0.013	0.113	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	11/04/71-03/30/94	6	6.25	8.65	16.	5.1	21.683	4.657	**	**	**	**
01000p	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/74-08/23/95	4 ##	0.75	1.	2.	0.5	0.5	0.707	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/08/77-03/30/94	4	32.	35.	55.	21.	247.333	15.727	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/26/82-08/28/91	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/74-08/28/91	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/74-08/28/91	3	1.	1.167	2.	0.5	0.583	0.764	**	**	**	**
01035p	COBALT, DISSOLVED (UG/L AS CO)	04/23/74-03/30/94	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/23/74-08/28/91	3	5.	4.667	8.	1.	12.333	3.512	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	11/04/71-08/23/95	5	270.	652.6	1800.	63.	551083.8	742.35	**	**	**	**
01049p	LEAD, DISSOLVED (UG/L AS PB)	04/23/74-08/23/95	4 ##	0.75	2.	6.	0.5	7.167	2.677	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	11/04/71-08/23/95	5	27.	29.2	60.	3.	442.7	21.04	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/26/82-08/23/95	5 ##	5.	4.6	5.	3.	0.8	0.894	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/13/79-03/30/94	4	4.5	4.75	6.	4.	0.917	0.957	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	11/08/77-03/30/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/26/82-08/23/95	5	270.	294.	480.	190.	12230.	110.589	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/26/82-03/30/94	4 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/74-08/28/91	3	8.	12.	23.	5.	93.	9.644	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/26/82-03/30/94	4	150.	287.5	820.	30.	134625.	366.913	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/26/82-08/23/95	5	21.	24.6	32.	20.	30.3	5.505	**	**	**	**
01145p	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/74-08/23/95	5	1.	0.8	1.	0.5	0.075	0.274	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	5	90.	88.6	230.	1.	8498.8	92.189	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	5	1.954	1.487	2.362	0.	0.917	0.958	**	**	**	**

** - Less 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: 2/15 to 3/19 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			30.712								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	5	130.	322.	875.	20.	132557.5	364.084	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	5	2.114	2.188	2.942	1.301	0.432	0.657	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			154.143								
60050	ALGAE, TOTAL (CELLS/ML)	07/17/74-09/15/81	2	289.	289.	550.	28.	136242.	369.11	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/04/71-08/23/95	7	629.	638.143	1010.	200.	110258.143	332.051	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/04/71-04/14/83	3	936.	786.333	973.	450.	85182.333	291.86	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/04/71-10/26/82	2	756.	756.	905.	607.	44402.	210.718	**	**	**	**
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/09/74-10/07/93	5	91.	75.4	99.	39.	820.3	28.641	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/71-06/16/82	1	37.	37.	37.	37.	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/03/71-06/16/82	1	76.	76.	76.	76.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/03/71-06/16/82	1	85.	85.	85.	85.	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/10/79-10/22/85	2	0.23	0.23	0.31	0.15	0.013	0.113	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/16/79-10/22/85	2	2.1	2.1	2.3	1.9	0.08	0.283	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-09/15/81	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
71890p	MERCURY, DISSOLVED (UG/L AS HG)	04/23/74-08/23/95	4 ##	0.05	0.063	0.1	0.05	0.001	0.025	**	**	**	**
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	25	1.9	2.492	4.5	1.	1.381	1.175	1.26	1.5	3.65	4.32
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/71-10/07/93	6	2121.5	2311.5	4980.	226.	2400170.3	1549.248	**	**	**	**
82130	ICE, THICKNESS IN FEET	05/02/83-11/21/91	2	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

Seasonal Analysis for Season #3: 3/20 to 4/30 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	135	4.	4.859	13.	0.	11.843	3.441	1.	1.5	9.	9.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	22	7.75	8.455	21.	-1.	35.641	5.97	2.15	4.5	12.875	17.7
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	13	706.	707.	751.	689.	221.833	14.894	691.8	699.	711.	735.8
00032	CLOUD COVER (PERCENT)	10/26/82-11/21/91	7	60.	43.571	95.	0.	1764.286	42.003	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	10/26/82-11/21/91	7	15.	15.	30.	5.	59.667	7.724	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	35	692.	2805.257	27900.	27.	30472828.785	5520.22	48.8	166.	3120.	8292.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/11/76-03/30/94	17	760.	1215.	3200.	2.	1432115.25	1196.71	17.2	115.	2500.	2960.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	117	1630.	1344.829	2700.	400.	396680.298	629.826	510.	710.	1760.	2260.
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	113	12.	11.688	13.	9.	0.701	0.837	10.8	11.	12.5	12.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	51	101.	99.392	109.	76.	23.723	4.871	96.	98.	102.	102.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	112	8.29	8.306	8.8	7.8	0.04	0.201	8.053	8.13	8.53	8.58
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	112	8.29	8.262	8.8	7.8	0.042	0.205	8.053	8.13	8.53	8.58
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	112	0.005	0.005	0.016	0.002	0.	0.002	0.003	0.003	0.007	0.009
00403	PH, LAB, STANDARD UNITS SU	11/11/80-08/23/95	12	8.2	8.167	8.5	7.8	0.059	0.242	7.83	7.9	8.4	8.47
00403	CONVERTED PH, LAB, STANDARD UNITS	11/11/80-08/23/95	12	8.2	8.105	8.5	7.8	0.063	0.251	7.83	7.9	8.4	8.47
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/80-08/23/95	12	0.006	0.008	0.016	0.003	0.	0.004	0.003	0.004	0.013	0.015
00405	CARBON DIOXIDE (MG/L AS CO2)	11/04/71-09/15/81	5	1.2	1.3	2.	1.	0.17	0.412	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/04/71-08/01/90	12	140.5	176.083	334.	0.	11327.72	106.432	28.2	110.	295.5	332.8
00440	BICARBONATE ION (MG/L AS HCO3)	11/04/71-08/05/86	5	250.	267.	388.	150.	13617.	116.692	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/04/71-08/05/86	5	0.	2.2	7.	0.	10.2	3.194	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-09/15/81	8	2.1	3.2	9.1	1.1	7.289	2.7	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/78-10/22/85	5	1.4	3.4	8.7	1.1	10.595	3.255	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/79-03/30/94	13	0.09	0.105	0.21	0.005	0.007	0.083	0.011	0.02	0.21	0.21
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/12/77-10/05/92	11	0.07	0.175	1.2	0.02	0.119	0.344	0.022	0.03	0.1	1.002
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/11/76-10/05/92	5	0.04	0.034	0.05	0.02	0.	0.013	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/12/77-08/28/91	5	0.74	0.926	1.9	0.47	0.312	0.559	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-03/30/94	19	1.4	2.458	8.9	0.1	7.521	2.743	0.3	0.7	2.5	8.6
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-10/05/92	9	0.28	0.334	0.97	0.	0.099	0.314	0.	0.038	0.515	0.97
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/12/79-03/30/94	13	0.3	0.313	0.9	0.	0.087	0.295	0.01	0.05	0.5	0.82
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/74-03/30/94	19	0.31	2.503	37.	0.02	70.39	8.39	0.03	0.08	1.3	2.9
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/77-03/30/94	16	0.02	0.018	0.05	0.005	0.	0.011	0.005	0.01	0.02	0.036
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/04/71-03/30/94	11	0.01	0.015	0.05	0.005	0.	0.013	0.005	0.005	0.02	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 #3: 3/20 to 4/30 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/23/74-09/15/81	5	19.	24.6	47.	11.	193.3	13.903	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/04/71-04/14/83	10	220.	241.5	410.	85.	12366.944	111.207	88.5	142.5	347.5	406.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	11/04/71-08/23/95	19	42.	49.316	82.	22.	394.561	19.864	26.	29.	68.	77.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/04/71-08/23/95	19	25.	25.616	49.	3.7	171.083	13.08	10.	14.	38.	44.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/04/71-08/23/95	19	240.	224.158	480.	69.	15678.918	125.215	78.	100.	300.	440.
00931	SODIUM ADSORPTION RATIO	11/04/71-04/14/83	10	6.35	6.22	10.	3.1	4.526	2.127	3.11	4.325	7.75	9.79
00932	SODIUM, PERCENT	11/04/71-04/14/83	10	67.5	64.9	73.	51.	53.878	7.34	51.5	59.	71.	72.8
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	11/04/71-08/23/95	19	7.6	7.442	10.	4.4	2.008	1.417	5.	6.3	8.5	9.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	11/04/71-08/23/95	19	8.	9.842	36.	4.	60.807	7.798	4.	5.	10.	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	11/04/71-08/23/95	19	480.	477.368	1000.	140.	64076.023	253.132	180.	240.	660.	840.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/04/71-08/23/95	19	0.2	0.268	0.5	0.1	0.011	0.106	0.2	0.2	0.3	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	11/04/71-03/30/94	19	6.9	6.853	8.1	4.6	0.87	0.933	5.8	6.	7.7	7.9
01000p	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/74-08/23/95	12	1.	0.875	2.	0.5	0.188	0.433	0.5	0.5	1.	1.7
01001	ARSENIC, SUSPENDED (UG/L AS AS)	04/23/74-08/24/82	4	7.	10.	24.	2.	93.333	9.661	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/23/74-08/24/82	7	10.	20.	55.	3.	334.667	18.294	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/08/77-03/30/94	12	38.5	42.417	100.	20.	459.72	21.441	20.9	29.	50.	87.1
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/26/82-08/28/91	8 ##	0.25	1.288	5.	0.25	3.793	1.948	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/74-08/28/91	12 ##	0.5	0.625	1.5	0.	0.142	0.377	0.15	0.5	0.875	1.35
01027	CADMIUM, TOTAL (UG/L AS CD)	04/23/74-08/24/82	6 ##	5.25	5.083	10.	0.	29.042	5.389	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/74-08/28/91	11 ##	0.5	1.727	10.	0.	9.418	3.069	0.1	0.5	0.5	9.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	04/23/74-08/11/81	3	10.	10.	20.	0.	100.	10.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/23/74-08/24/82	7	50.	57.143	160.	0.	2957.143	54.38	**	**	**	**
01035p	COBALT, DISSOLVED (UG/L AS CO)	04/23/74-03/30/94	14 ##	1.5	1.25	2.	0.	0.26	0.51	0.25	1.	1.5	1.75
01037	COBALT, TOTAL (UG/L AS CO)	04/23/74-08/24/82	7	50.	48.714	100.	10.	968.238	31.117	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/23/74-08/28/91	12	5.5	9.	27.	3.	56.364	7.508	3.	4.	12.5	24.6
01041	COPPER, SUSPENDED (UG/L AS CU)	04/23/74-08/24/82	4	29.	72.	230.	0.	11378.	106.668	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/23/74-08/24/82	7	60.	126.571	320.	20.	13622.286	116.715	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/23/74-08/24/82	7	54000.	63614.286	160000.	2700.	3550301428.571	59584.406	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	11/04/71-08/23/95	14	39.	83.5	380.	20.	9799.192	98.991	20.	26.	122.5	275.
01049p	LEAD, DISSOLVED (UG/L AS PB)	04/23/74-08/23/95	12 ##	2.	1.792	4.	0.5	1.203	1.097	0.5	0.625	2.5	3.55
01050	LEAD, SUSPENDED (UG/L AS PB)	04/23/74-08/24/82	2 ##	49.	49.	49.	49.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/23/74-08/24/82	5	100.	114.8	200.	34.	3715.2	60.952	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/74-08/24/82	4	595.	1380.	4200.	130.	3589800.	1894.677	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/74-08/24/82	7	1300.	1707.143	4200.	160.	2155890.476	1468.295	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	11/04/71-08/23/95	14	5.5	9.429	30.	3.	61.341	7.832	4.	5.	11.75	25.5
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/26/82-08/23/95	10 ##	5.	6.3	20.	3.	23.567	4.855	3.2	5.	5.	18.5
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/13/79-03/30/94	11	3.	2.909	5.	1.	1.491	1.221	1.	2.	4.	4.8
01075	SILVER, DISSOLVED (UG/L AS AG)	11/08/77-03/30/94	12 ##	0.5	0.5	1.	0.	0.045	0.213	0.15	0.5	0.5	0.85
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/26/82-08/23/95	10	465.	472.	800.	180.	48062.222	219.231	185.	260.	680.	794.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/26/82-03/30/94	10 ##	3.	2.8	3.	2.	0.178	0.422	2.	2.75	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/74-08/28/91	12	8.5	16.083	40.	3.	186.083	13.641	3.6	5.25	26.	40.
01091	ZINC, SUSPENDED (UG/L ZN)	04/23/74-08/24/82	3	80.	233.333	620.	0.	113733.333	337.244	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/23/74-08/24/82	7	390.	362.857	680.	40.	63757.143	252.502	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/26/82-03/30/94	10	50.	80.5	390.	5.	12958.056	113.833	5.5	17.5	82.5	363.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/26/82-08/23/95	10	43.	45.5	80.	16.	448.5	21.178	16.9	27.25	62.	78.8
01145p	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/74-08/23/95	14 ##	0.75	0.964	3.	0.5	0.518	0.72	0.5	0.5	1.	2.5
01146	SELENIUM, SUSPENDED (UG/L AS SE)	04/23/74-08/24/82	4	0.	0.25	1.	0.	0.25	0.5	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/23/74-08/24/82	7	2.	2.071	4.	0.5	1.702	1.305	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	10	110.	120.4	315.	1.	9537.156	97.658	1.5	42.75	183.75	306.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	10	2.041	1.769	2.498	0.	0.611	0.781	0.078	1.5	2.261	2.484
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			58.691								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	10	77.5	203.3	850.	1.	69054.9	262.783	5.5	49.	334.5	807.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	10	1.887	1.909	2.929	0.	0.637	0.798	0.166	1.69	2.52	2.899
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			81.116								
60050	ALGAE, TOTAL (CELLS/ML)	07/17/74-09/15/81	1	8300.	8300.	8300.	8300.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/04/71-08/23/95	19	977.	947.842	1910.	329.	224248.363	473.549	433.	463.	1270.	1690.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/04/71-04/14/83	10	966.5	945.	1880.	398.	219860.889	468.893	404.8	521.5	1275.	1821.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/04/71-10/26/82	8	2110.	2298.25	6500.	242.	4332779.643	2081.533	**	**	**	**
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/09/74-10/07/93	15	97.	92.2	99.	60.	119.171	10.917	70.2	88.	98.	99.

** - Less 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: 3/20 to 4/30 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/71-06/16/82	4	73.5	75.5	92.	63.	173.667	13.178	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/25/72-06/16/82	4	89.5	90.	100.	81.	68.667	8.287	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/03/71-06/16/82	3	98.	98.333	100.	97.	2.333	1.528	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/03/71-06/16/82	2	99.5	99.5	100.	99.	0.5	0.707	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/10/79-10/22/85	4	0.22	0.198	0.27	0.08	0.008	0.091	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/16/79-10/22/85	6	2.475	20.273	110.	0.28	1937.648	44.019	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-09/15/81	8	9.15	14.125	40.	4.9	141.742	11.906	**	**	**	**
71890p	MERCURY, DISSOLVED (UG/L AS HG)	04/23/74-08/23/95	12 ##	0.05	0.125	0.5	0.05	0.022	0.147	0.05	0.05	0.2	0.44
71895	MERCURY, SUSPENDED (UG/L AS HG)	04/23/74-08/24/82	3	0.4	0.267	0.4	0.	0.053	0.231	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/23/74-08/24/82	7	0.3	0.379	0.9	0.05	0.072	0.269	**	**	**	**
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	104	1.1	1.482	5.7	0.	1.653	1.286	0.	0.7	2.3	3.4
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/71-10/07/93	17	1354.	4191.059	18800.	116.	28968850.934	5382.272	120.8	170.5	8095.5	12880.
82130	ICE, THICKNESS IN FEET	05/02/83-11/21/91	7	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

Seasonal Analysis for Season #4: 5/01 to 7/31 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/71-03/18/96	158	18.	18.884	26.	4.	22.447	4.738	10.5	17.5	23.5	26.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/74-03/18/96	33	21.1	19.715	31.	3.	47.774	6.912	8.6	15.5	25.25	27.6
00025	BAROMETRIC PRESSURE (MM OF HG)	10/13/80-03/30/94	39	704.	705.051	711.	689.	13.997	3.741	704.	704.	706.	711.
00032	CLOUD COVER (PERCENT)	10/26/82-11/21/91	8	5.	12.5	50.	0.	314.286	17.728	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	10/26/82-11/21/91	8	5.	8.5	25.	3.	50.857	7.131	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/73-03/18/96	45	206.	714.911	4100.	6.	1220164.946	1104.611	20.8	90.	626.5	2854.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/11/76-03/30/94	19	400.	2279.158	14000.	3.	12269238.251	3502.747	22.	63.	4500.	5800.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/04/71-03/18/96	152	1595.	1574.322	3100.	695.	229683.703	479.253	860.	1173.5	1920.	2138.5
00300p	OXYGEN, DISSOLVED MG/L	04/23/74-03/30/94	136	8.9	8.631	10.6	7.1	0.603	0.777	7.6	7.9	9.	9.93
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/74-11/27/90	39	99.	97.436	107.	80.	29.779	5.457	87.	98.	100.	100.
00400p	PH (STANDARD UNITS)	11/04/71-03/18/96	139	8.5	8.367	8.9	7.4	0.083	0.287	7.9	8.1	8.55	8.65
00400p	CONVERTED PH (STANDARD UNITS)	11/04/71-03/18/96	139	8.5	8.254	8.9	7.4	0.095	0.309	7.9	8.1	8.55	8.65
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/04/71-03/18/96	139	0.003	0.006	0.04	0.001	0.	0.005	0.002	0.003	0.008	0.013
00403	PH, LAB, STANDARD UNITS SU	11/11/80-08/23/95	14	8.25	8.207	8.6	7.7	0.071	0.267	7.8	7.975	8.4	8.55
00403	CONVERTED PH, LAB, STANDARD UNITS	11/11/80-08/23/95	14	8.247	8.128	8.6	7.7	0.078	0.28	7.8	7.975	8.4	8.55
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/80-08/23/95	14	0.006	0.007	0.02	0.003	0.	0.005	0.003	0.004	0.011	0.016
00405	CARBON DIOXIDE (MG/L AS CO2)	11/04/71-09/15/81	14	1.7	3.714	20.	0.7	26.632	5.161	0.75	0.875	4.025	14.1
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	11/04/71-08/01/90	21	230.	253.524	809.	98.	20919.562	144.636	128.	180.5	269.	385.4
00440	BICARBONATE ION (MG/L AS HCO3)	11/04/71-08/05/86	12	267.5	253.5	340.	151.	3456.818	58.795	158.5	202.25	300.75	331.6
00445	CARBONATE ION (MG/L AS CO3)	11/04/71-08/05/86	10	0.	0.3	3.	0.	0.9	0.949	0.	0.	0.	2.7
00600	NITROGEN, TOTAL (MG/L AS N)	04/23/74-09/15/81	15	2.5	4.115	11.	0.85	9.734	3.12	0.922	2.2	6.6	9.62
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/11/78-10/22/85	5	1.2	2.046	4.3	0.66	2.496	1.58	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/79-03/30/94	15	0.04	0.081	0.54	0.	0.018	0.134	0.006	0.02	0.08	0.306
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/12/77-10/05/92	11	0.03	0.085	0.46	0.	0.018	0.134	0.001	0.01	0.1	0.402
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/11/76-10/05/92	7	0.02	0.073	0.41	0.	0.022	0.149	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/12/77-08/28/91	7	0.81	1.077	3.1	0.41	0.832	0.912	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/23/74-03/30/94	26	2.35	3.607	13.	0.08	10.044	3.169	0.54	1.3	4.725	8.9
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/23/74-10/05/92	17	0.23	0.691	2.3	0.	0.658	0.811	0.008	0.028	1.45	1.98
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/12/79-03/30/94	15	0.1	0.673	3.2	0.	0.876	0.936	0.015	0.04	1.5	2.3
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/74-03/30/94	26	0.96	2.314	10.	0.03	7.845	2.801	0.037	0.17	3.675	7.22
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/14/77-03/30/94	17	0.02	0.048	0.45	0.005	0.011	0.106	0.005	0.01	0.025	0.154
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/04/71-03/30/94	14	0.015	0.025	0.11	0.	0.001	0.031	0.003	0.005	0.033	0.09
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/23/74-09/15/81	7	19.	25.943	62.	1.6	449.89	21.211	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/04/71-04/14/83	19	280.	274.737	500.	110.	14770.76	121.535	120.	170.	370.	490.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	11/04/71-08/23/95	28	51.5	55.643	91.	20.	392.46	19.811	29.7	39.5	70.75	86.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/04/71-08/23/95	28	21.5	27.064	67.	6.8	242.59	15.575	11.8	16.	35.	55.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	11/04/71-08/23/95	28	270.	287.286	620.	94.	16333.693	127.803	129.	212.5	330.	553.
00931	SODIUM ADSORPTION RATIO	11/04/71-04/14/83	19	7.5	8.605	23.	3.7	19.401	4.405	4.6	5.9	9.8	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

Seasonal Analysis for Season #4: 5/01 to 7/31 - Station THRO0006

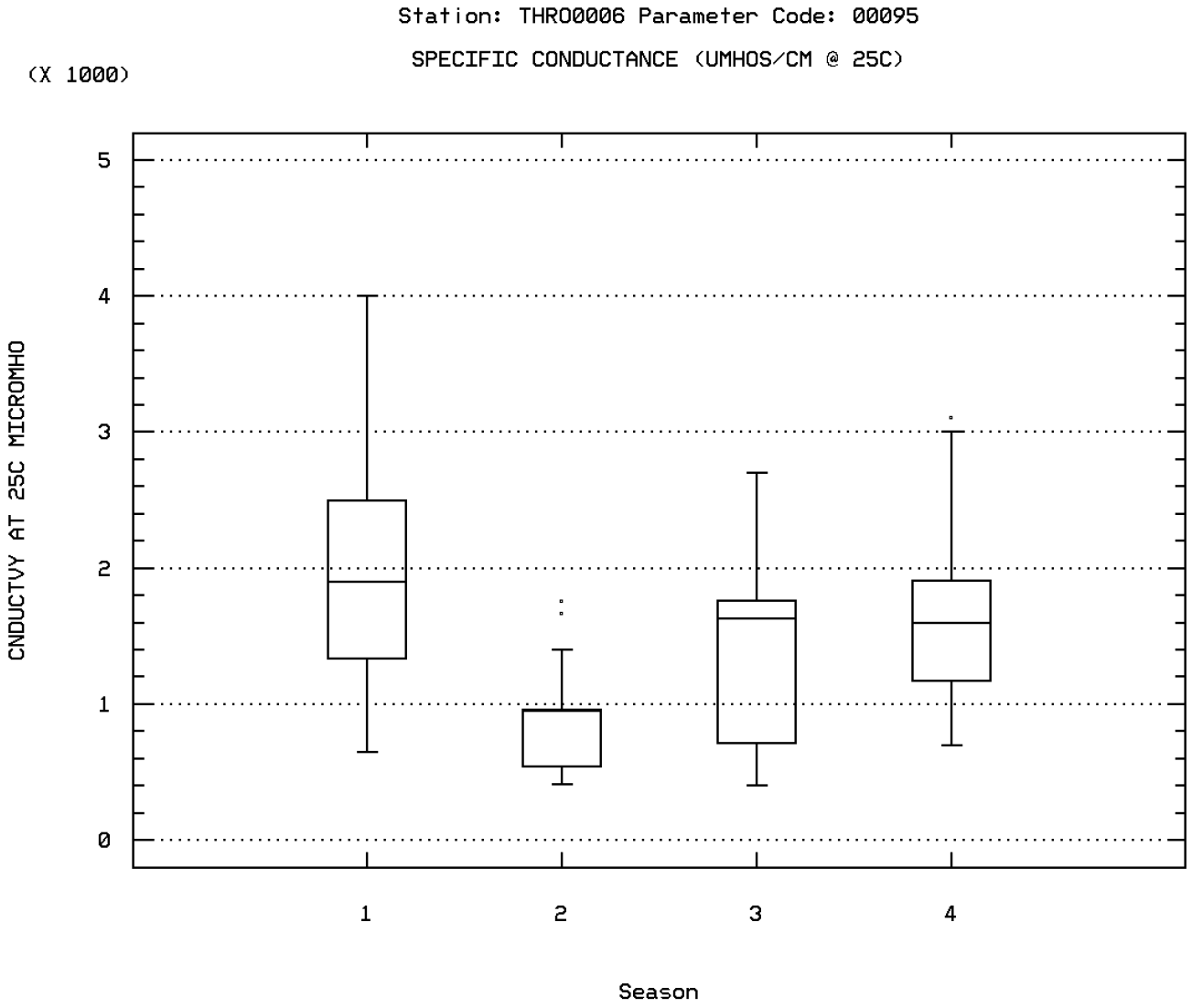
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00932	SODIUM, PERCENT	11/04/71-04/14/83	19	70.	68.947	89.	54.	88.275	9.395	58.	61.	74.	87.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	11/04/71-08/23/95	28	8.95	9.618	20.	6.5	7.86	2.804	7.36	7.925	10.	13.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	11/04/71-08/23/95	28	8.	9.821	32.	4.	38.893	6.236	5.	6.	11.	18.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	11/04/71-08/23/95	28	595.	621.071	1300.	280.	69735.847	264.075	338.	395.	710.	1120.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/04/71-08/23/95	28	0.4	0.414	0.7	0.2	0.014	0.118	0.29	0.3	0.5	0.6
00955p	SILICA, DISSOLVED (MG/L AS SI02)	11/04/71-03/30/94	28	9.2	10.529	45.	6.5	48.378	6.955	6.78	8.325	10.	13.
01000p	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/74-08/23/95	11	1.	1.545	3.	1.	0.473	0.688	1.	1.	2.	2.8
01001	ARSENIC, SUSPENDED (UG/L AS AS)	04/23/74-08/24/82	4	12.5	66.25	240.	0.	13525.583	116.3	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/23/74-08/24/82	9	14.	53.667	240.	2.	7372.75	85.865	2.	2.5	94.	240.
01005	BARIUM, DISSOLVED (UG/L AS BA)	11/08/77-03/30/94	11	48.	63.455	160.	31.	1364.673	36.941	33.	43.	67.	148.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/26/82-08/28/91	7 ##	0.25	0.357	1.	0.25	0.08	0.283	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/74-08/28/91	11 ##	0.5	1.227	6.	0.	2.818	1.679	0.1	0.5	1.5	5.2
01027	CADMIUM, TOTAL (UG/L AS CD)	04/23/74-08/24/82	9	5.	6.222	20.	0.	47.194	6.87	0.	0.	10.	20.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/74-08/28/91	11 ##	0.5	1.682	10.	0.	9.564	3.093	0.	0.5	0.5	9.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	04/23/74-08/11/81	3	50.	100.	250.	0.	17500.	132.288	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/23/74-08/24/82	9	50.	79.444	250.	10.	9177.778	95.801	10.	15.	150.	250.
01035p	COBALT, DISSOLVED (UG/L AS CO)	04/23/74-03/30/94	13 ##	1.5	3.231	28.	0.	55.609	7.457	0.2	1.	1.5	17.4
01037	COBALT, TOTAL (UG/L AS CO)	04/23/74-08/24/82	9	36.	74.111	300.	1.	10938.361	104.587	1.	2.5	125.	300.
01040	COPPER, DISSOLVED (UG/L AS CU)	04/23/74-08/28/91	11	5.	9.273	30.	2.	72.218	8.498	2.4	4.	11.	28.
01041	COPPER, SUSPENDED (UG/L AS CU)	04/23/74-08/24/82	4	36.5	164.25	580.	4.	77424.25	278.252	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/23/74-08/24/82	9	80.	155.667	610.	6.	45402.5	213.079	6.	12.5	270.	610.
01045	IRON, TOTAL (UG/L AS FE)	04/23/74-08/24/82	9	27000.	67136.667	410000.	630.	16934621100.	130133.09	630.	5300.	53500.	410000.
01046p	IRON, DISSOLVED (UG/L AS FE)	11/04/71-08/23/95	15	55.	2166.733	25000.	5.	41860154.067	6469.942	7.4	14.	340.	13300.
01049p	LEAD, DISSOLVED (UG/L AS PB)	04/23/74-08/23/95	11	2.5	2.773	8.	0.5	5.518	2.349	0.5	1.	3.	7.6
01050	LEAD, SUSPENDED (UG/L AS PB)	04/23/74-08/24/82	4	28.75	140.125	500.	3.	57967.396	240.764	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/23/74-08/24/82	7	100.	145.714	500.	4.	35257.905	187.771	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/74-08/24/82	4	605.	3070.	11000.	70.	28096466.667	5300.61	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/74-08/24/82	9	980.	2467.778	11000.	10.	13770019.444	3710.798	10.	165.	3950.	11000.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	11/04/71-08/23/95	14	5.	23.75	190.	0.5	2604.26	51.032	0.75	4.	12.5	130.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/26/82-08/23/95	9 ##	5.	6.111	10.	5.	4.861	2.205	5.	5.	7.5	10.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/13/79-03/30/94	11	6.	9.182	50.	2.	187.364	13.688	2.2	3.	7.	41.6
01075	SILVER, DISSOLVED (UG/L AS AG)	11/08/77-03/30/94	11 ##	0.5	0.455	0.5	0.	0.023	0.151	0.1	0.5	0.5	0.5
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/26/82-08/23/95	9	440.	450.	710.	210.	23575.	153.542	210.	335.	580.	710.
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/26/82-03/30/94	9 ##	3.	5.889	28.	3.	68.861	8.298	3.	3.	3.5	28.
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/74-08/28/91	11	10.	18.773	49.	1.5	248.468	15.763	2.4	6.	35.	47.2
01091	ZINC, SUSPENDED (UG/L ZN)	04/23/74-08/24/82	3	280.	726.667	1900.	0.	1052133.333	1025.736	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/23/74-08/24/82	9	270.	463.333	1900.	20.	424875.	651.824	20.	35.	760.	1900.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/26/82-03/30/94	9	40.	1163.333	9800.	5.	10502568.75	3240.767	5.	7.5	255.	9800.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/26/82-08/23/95	9	45.	47.111	72.	22.	250.611	15.831	22.	36.5	61.	72.
01145p	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/74-08/23/95	13	1.	2.269	12.	0.	9.692	3.113	0.2	1.	2.5	8.8
01146	SELENIUM, SUSPENDED (UG/L AS SE)	04/23/74-08/24/82	4	0.5	1.	3.	0.	2.	1.414	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/23/74-08/24/82	9	2.	2.556	6.	0.	3.528	1.878	0.	1.5	4.	6.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	17	100.	591.353	6000.	30.	2112097.993	1453.306	32.4	65.	262.5	2400.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/11/76-03/30/94	17	2.	2.166	3.778	1.477	0.397	0.63	1.51	1.812	2.39	3.297
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			146.676								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	17	80.	476.294	5000.	50.	1466345.471	1210.928	50.	70.	146.	2104.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/08/76-03/30/94	17	1.903	2.126	3.699	1.699	0.304	0.552	1.699	1.844	2.151	3.252
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			133.64								
60050	ALGAE, TOTAL (CELLS/ML)	07/17/74-09/15/81	10	5950.	107653.2	900000.	0.78	221535146.844	279681.131	3.2	1058.	63250.	817600.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/04/71-08/23/95	27	1220.	1247.741	2380.	535.	250802.969	500.802	641.2	888.	1390.	2240.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/04/71-04/14/83	19	1180.	1255.421	2320.	544.	247461.146	497.455	651.	927.	1470.	2290.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/04/71-10/26/82	19	873.	1648.358	9830.	35.	5307585.278	2303.82	81.8	256.	2160.	3820.
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/09/74-10/07/93	15	99.	98.467	100.	93.	3.695	1.922	95.4	97.	100.	100.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/71-06/16/82	13	71.	67.385	94.	28.	507.256	22.522	30.	47.	86.5	92.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/25/72-06/16/82	10	93.5	88.1	100.	59.	212.1	14.564	59.4	84.	96.5	99.8
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/03/71-06/16/82	11	94.	90.545	100.	71.	98.073	9.903	72.8	83.	99.	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/03/71-06/16/82	9	97.	95.	100.	79.	44.5	6.671	79.	92.5	99.5	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/10/79-10/22/85	6	0.115	0.195	0.7	0.	0.065	0.256	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/16/79-10/22/85	7	0.58	3.794	14.	0.09	30.192	5.495	**	**	**	**

** - Less 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

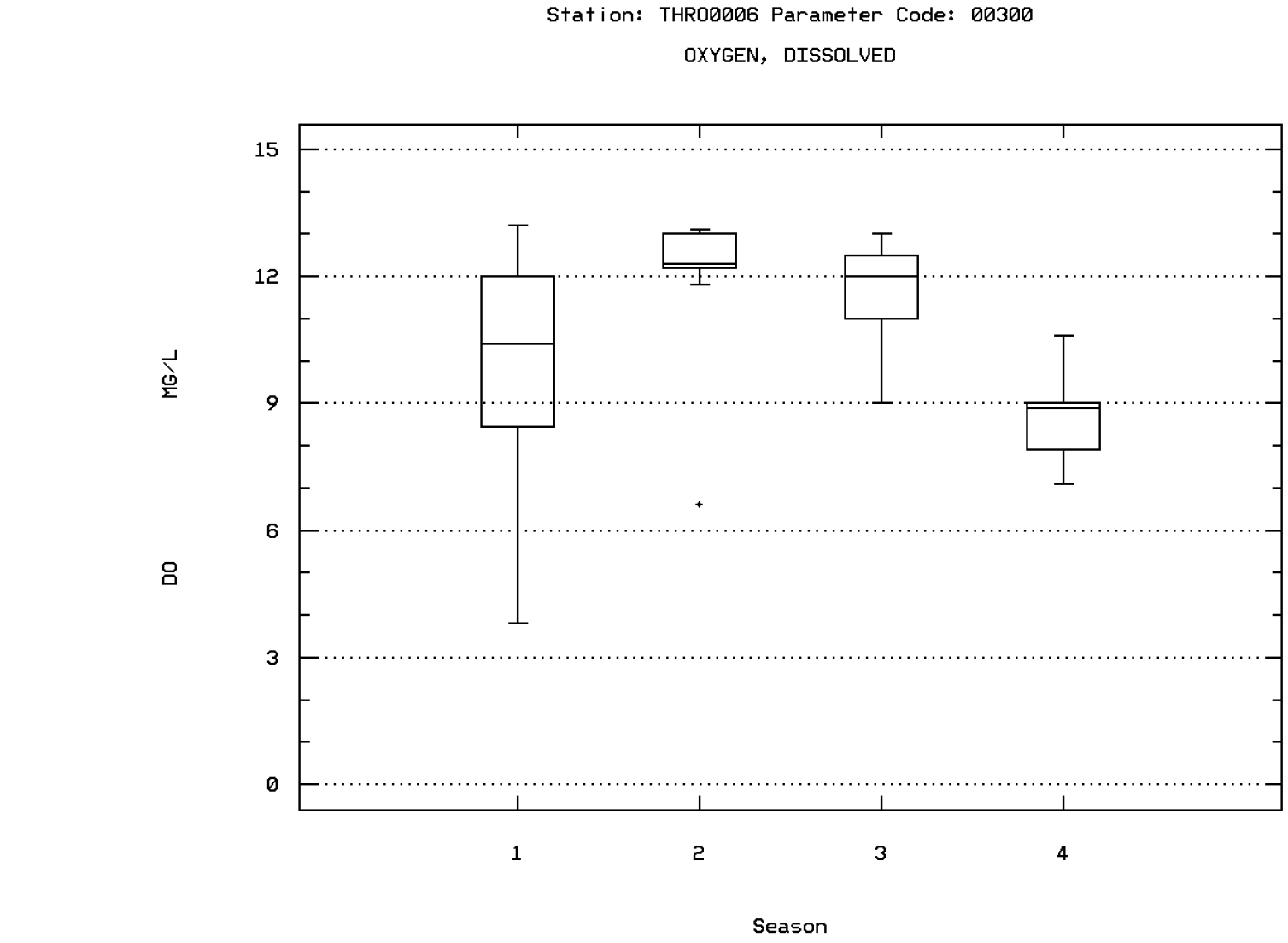
Seasonal Analysis for Season #4: 5/01 to 7/31 - Station THRO0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/23/74-09/15/81	15	11.	18.187	48.	3.8	187.447	13.691	4.1	9.9	29.	42.6
71890p	MERCURY, DISSOLVED (UG/L AS HG)	04/23/74-08/23/95	11 ##	0.05	0.173	0.6	0.	0.041	0.202	0.01	0.05	0.25	0.58
71895	MERCURY, SUSPENDED (UG/L AS HG)	04/23/74-08/24/82	4	0.1	0.225	0.7	0.	0.109	0.33	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/23/74-08/24/82	9	0.25	0.411	1.	0.05	0.11	0.332	0.05	0.15	0.7	1.
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	10/26/82-10/05/92	100	1.4	1.496	4.8	0.	1.032	1.016	0.4	0.7	2.075	3.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/71-10/07/93	26	3230.	9012.692	40400.	36.	115999245.982	10770.295	146.5	678.75	14025.	27760.
82130	ICE, THICKNESS IN FEET	05/02/83-11/21/91	8	0.	0.	0.	0.	0.	0.	**	**	**	**

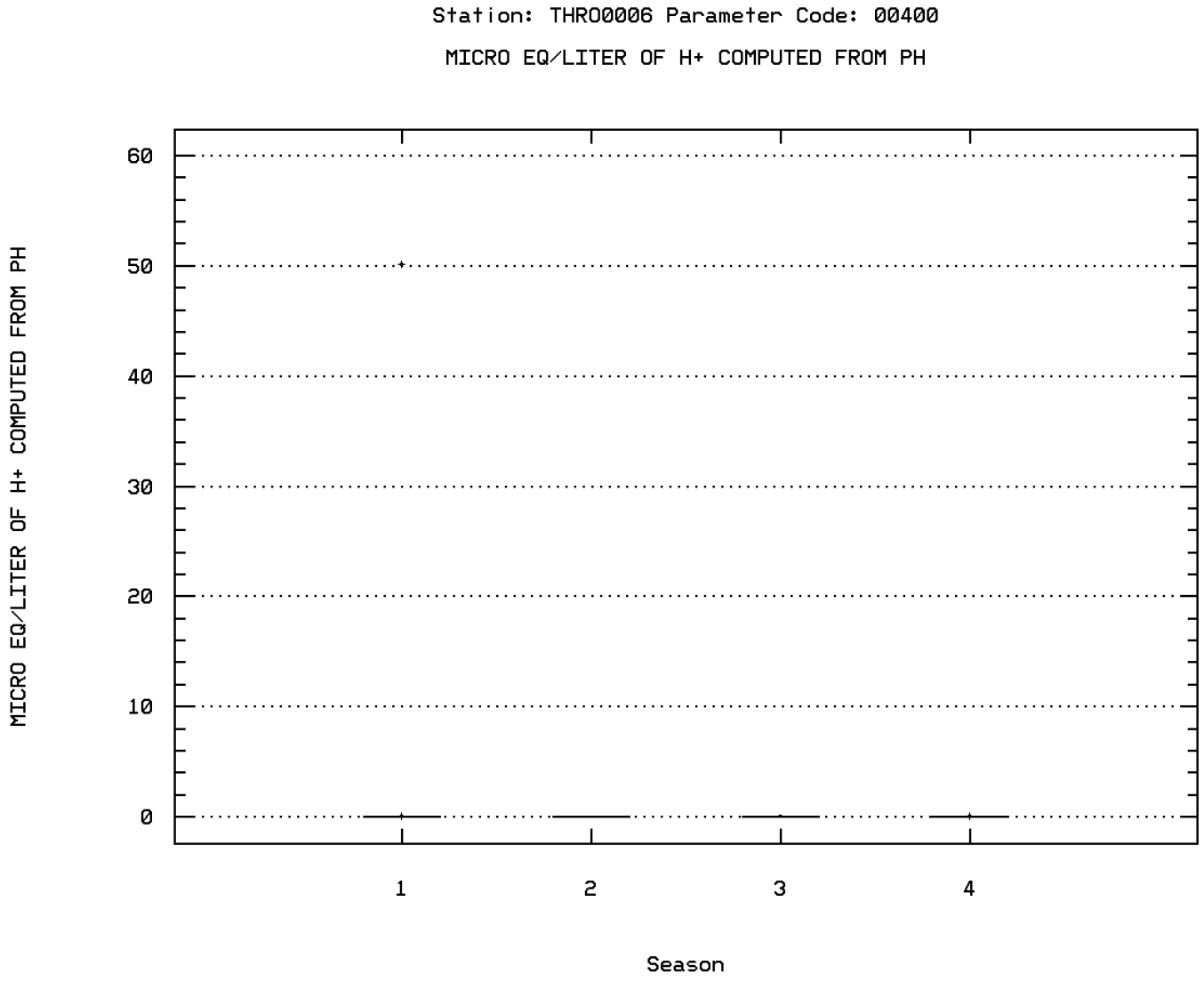
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LITTLE MISSOURI RIVER NR WATFORD CITY,



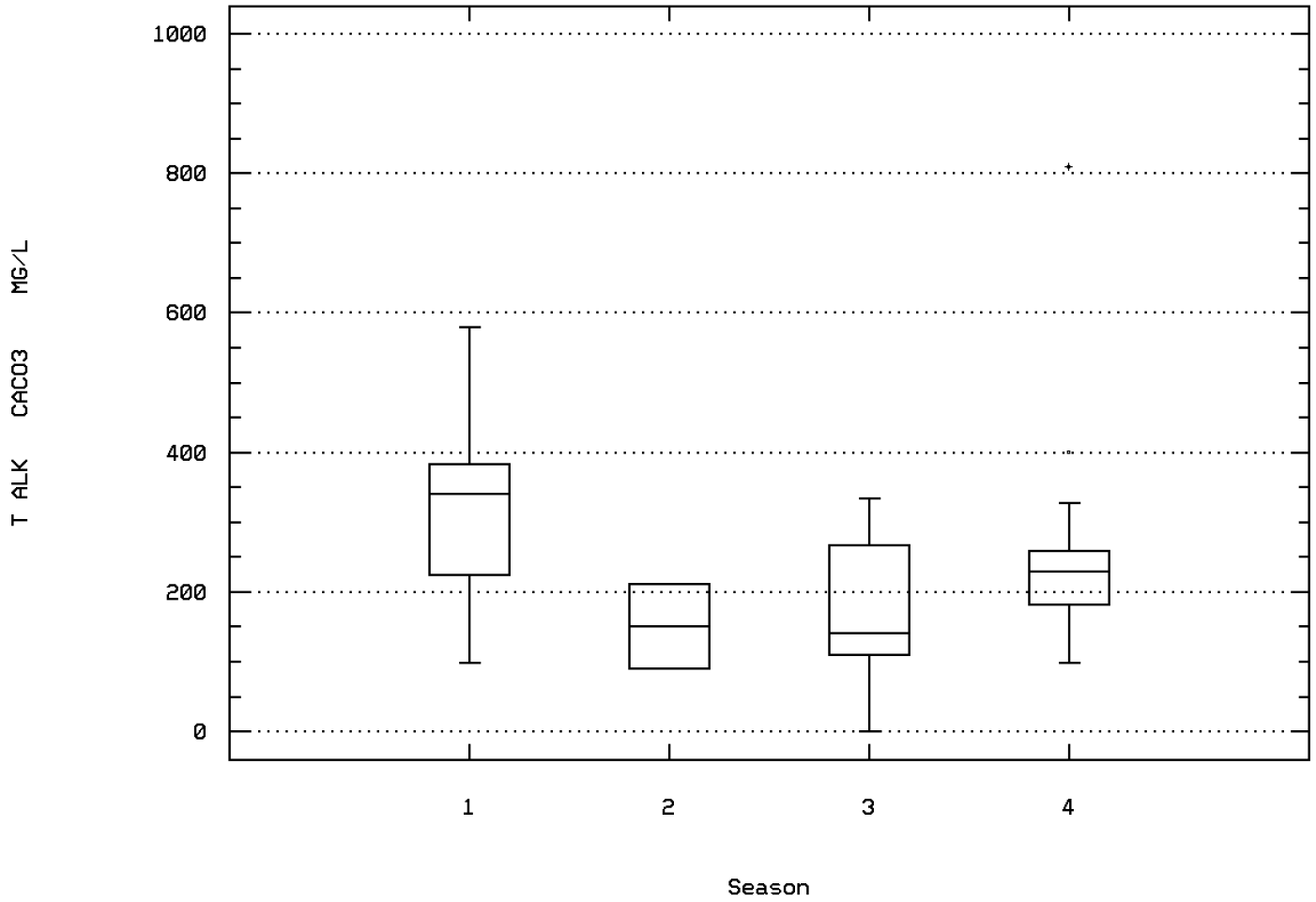
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00410

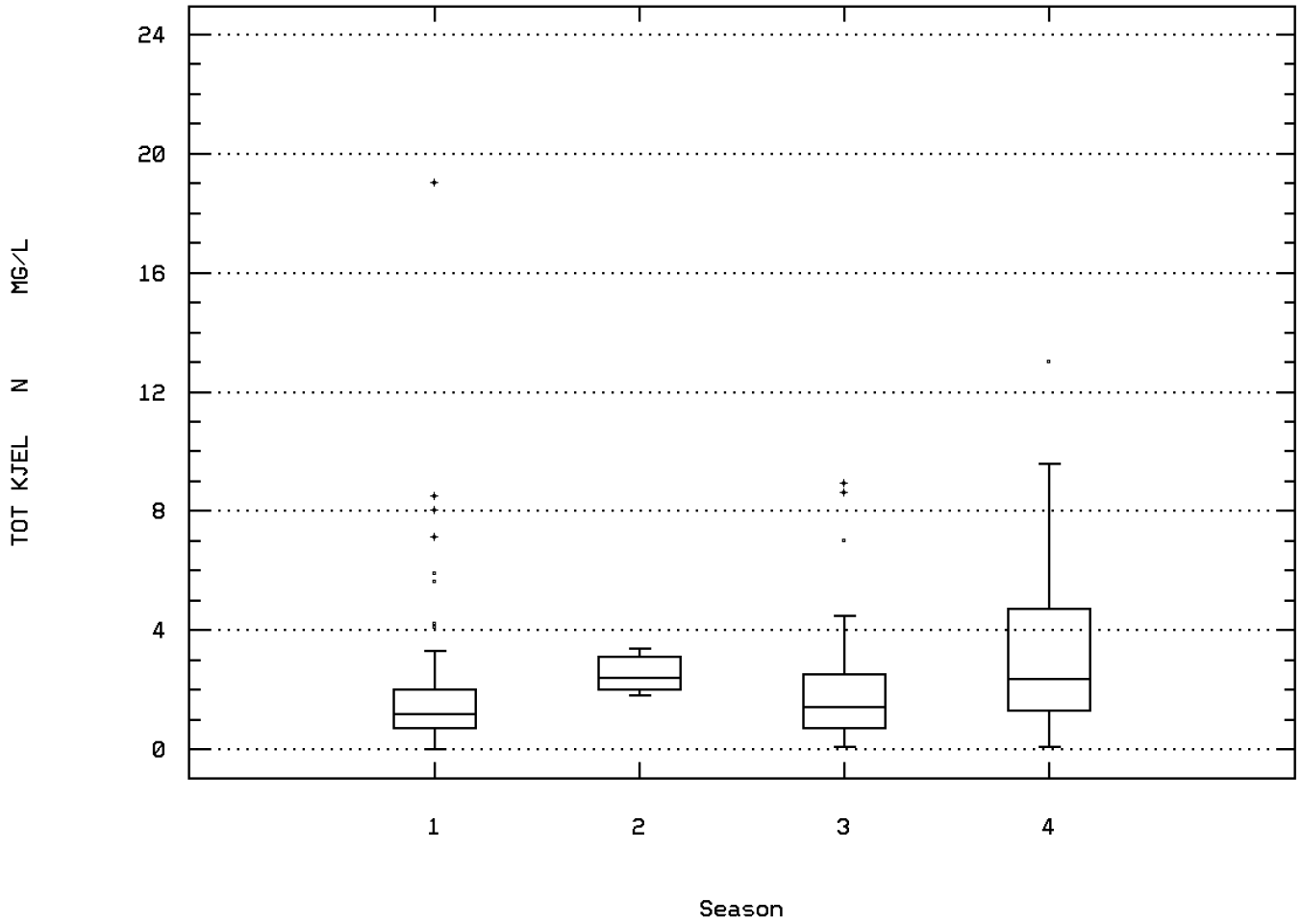
ALKALINITY, TOTAL (MG/L AS CACO3)



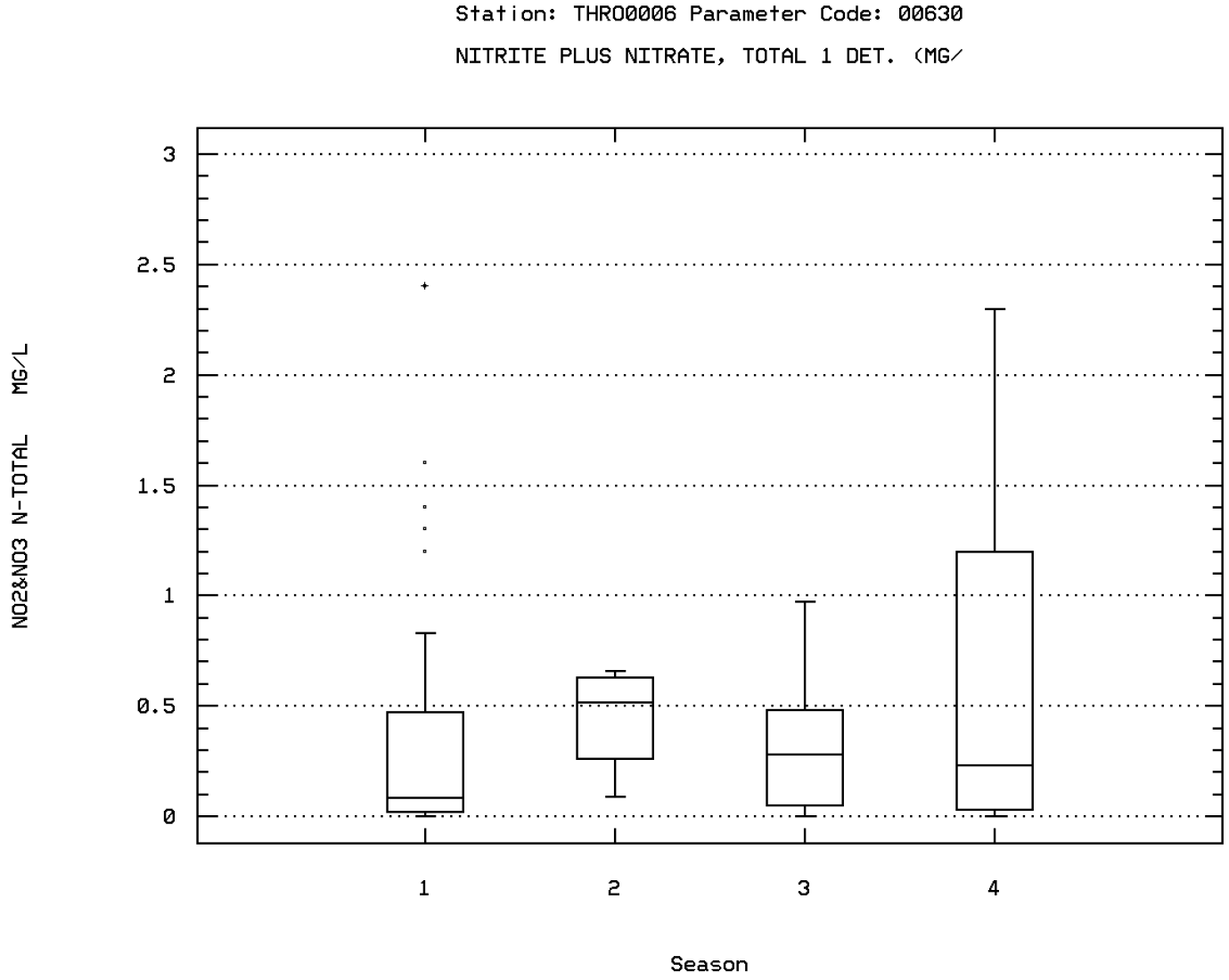
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 00625

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



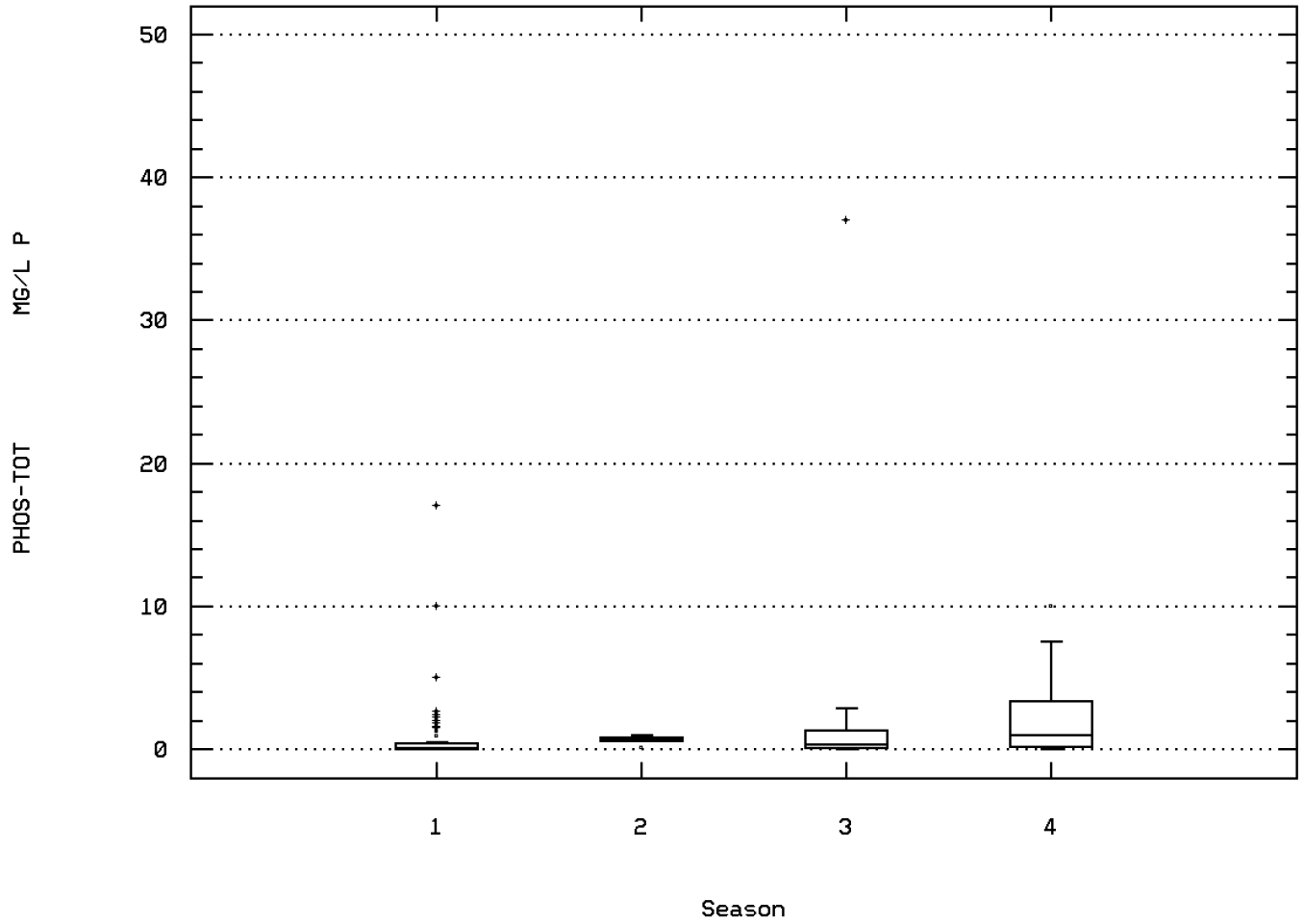
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 00665

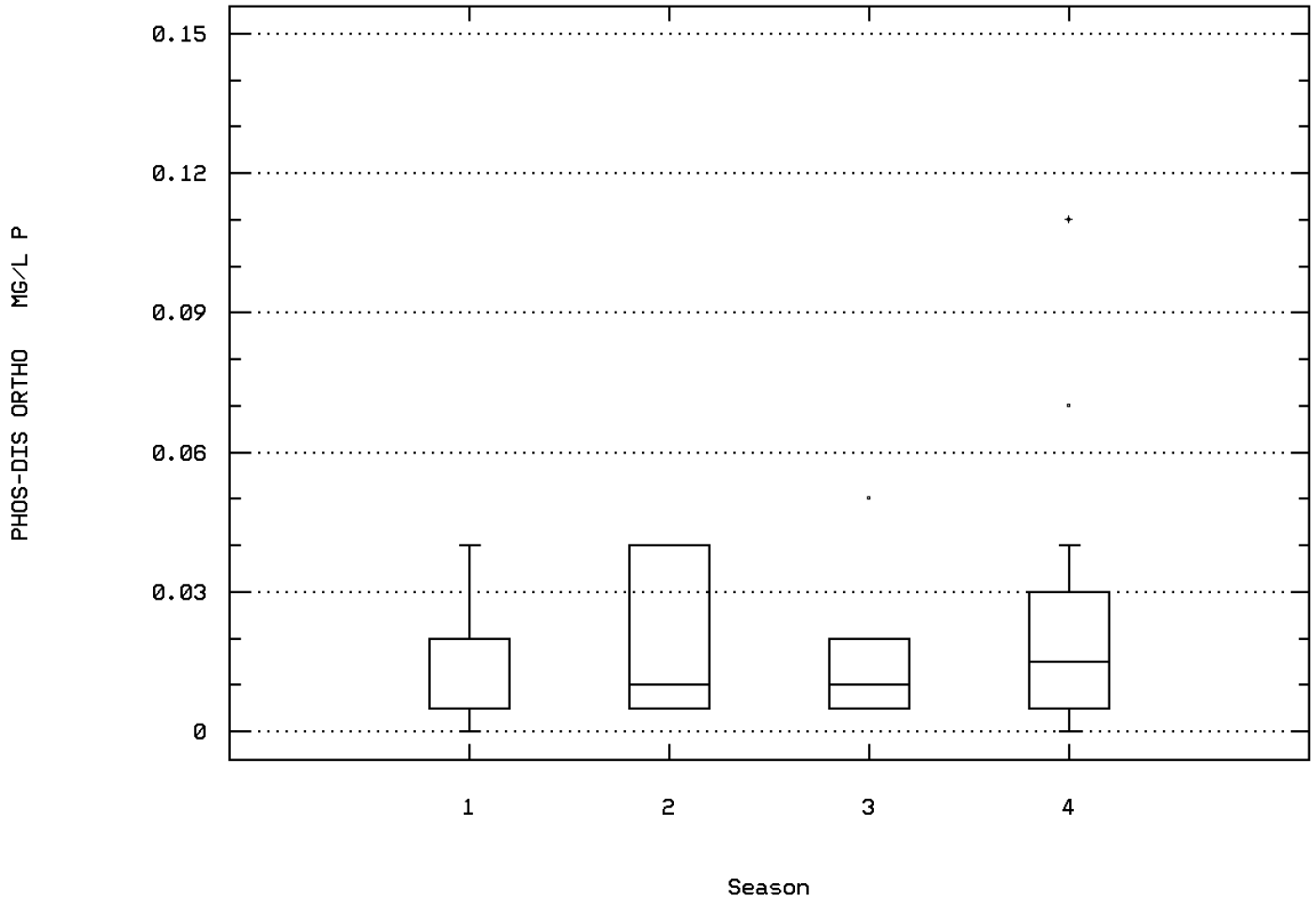
PHOSPHORUS, TOTAL (MG/L AS P)



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00671

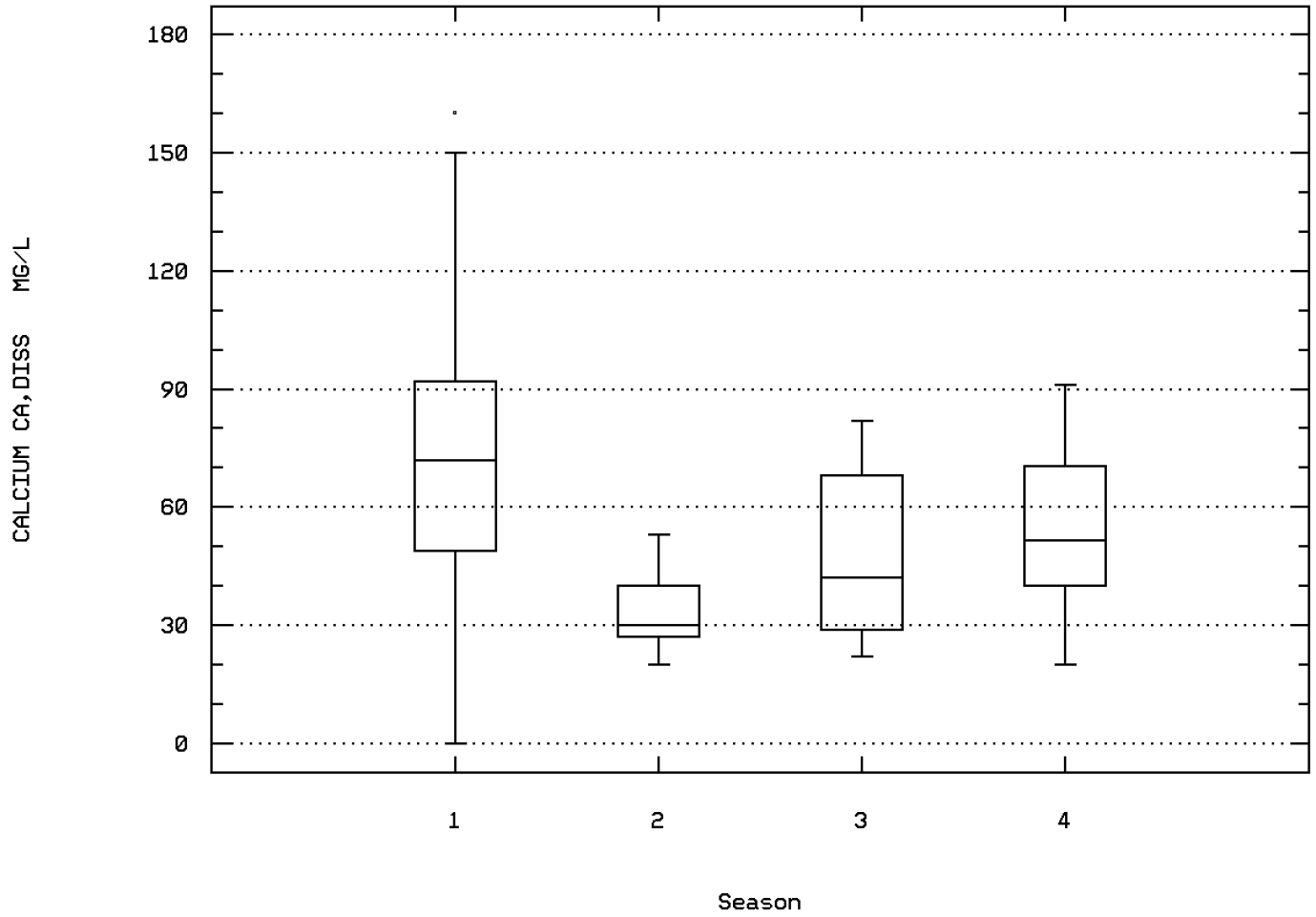
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



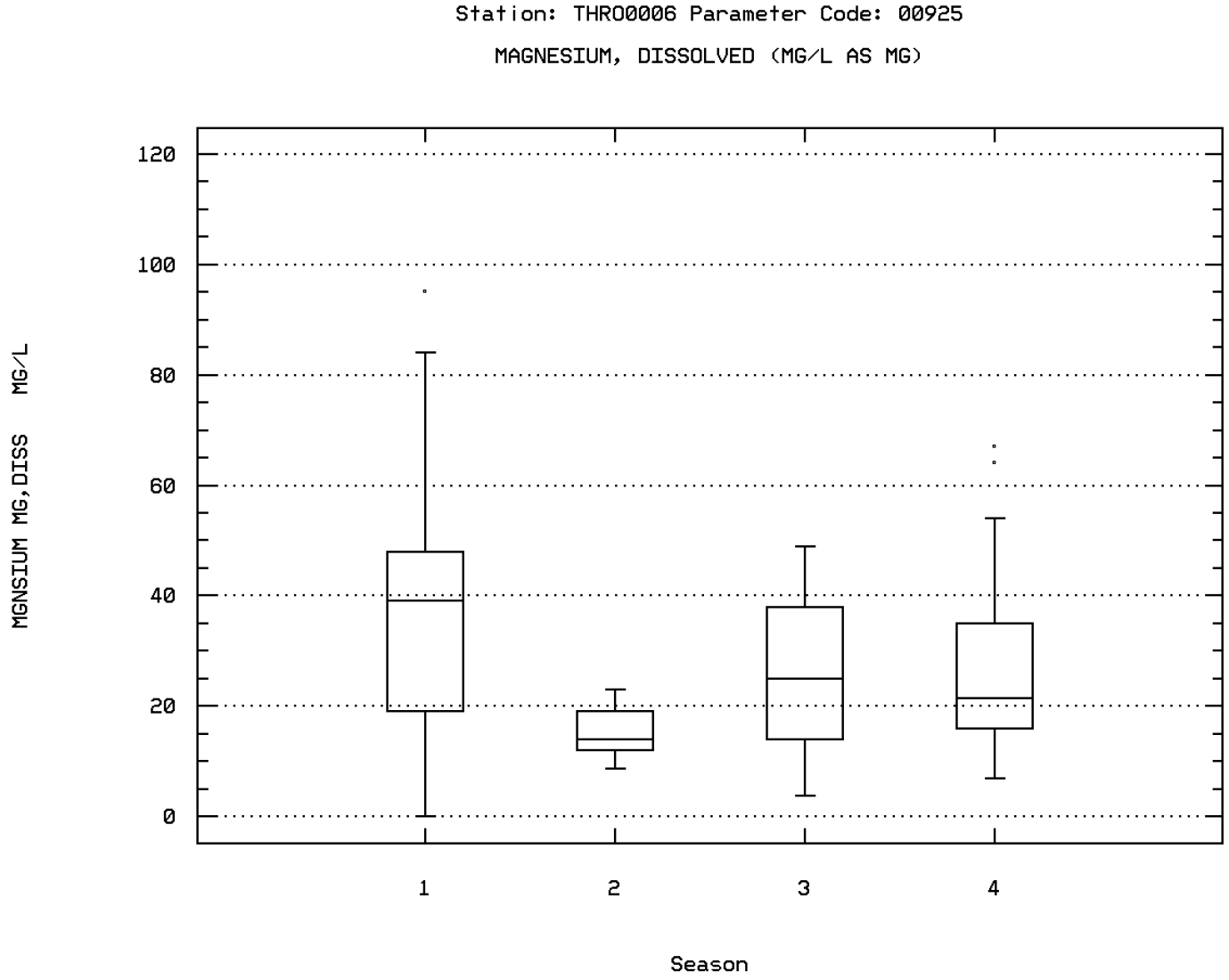
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00915

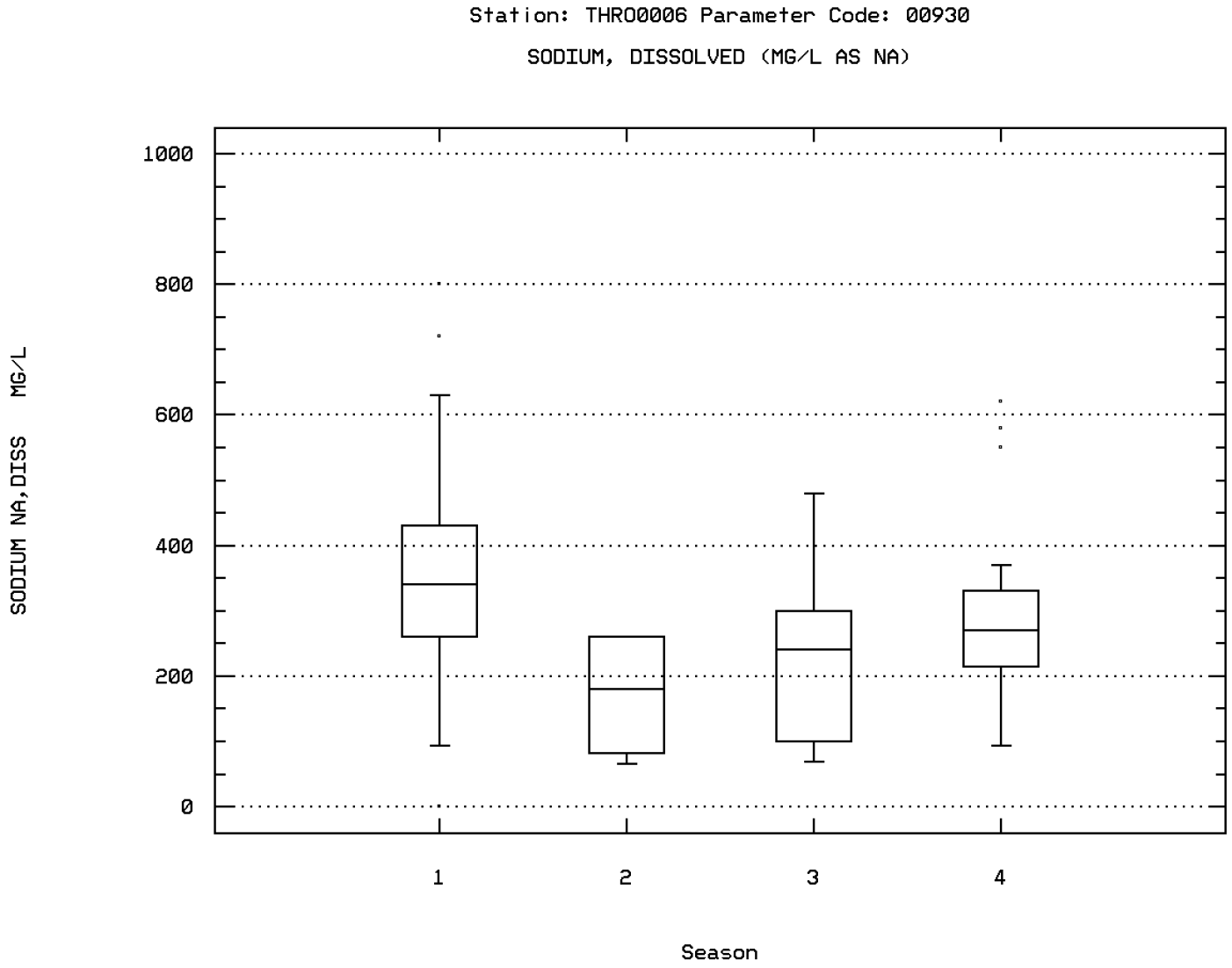
CALCIUM, DISSOLVED (MG/L AS CA)



LITTLE MISSOURI RIVER NR WATFORD CITY,



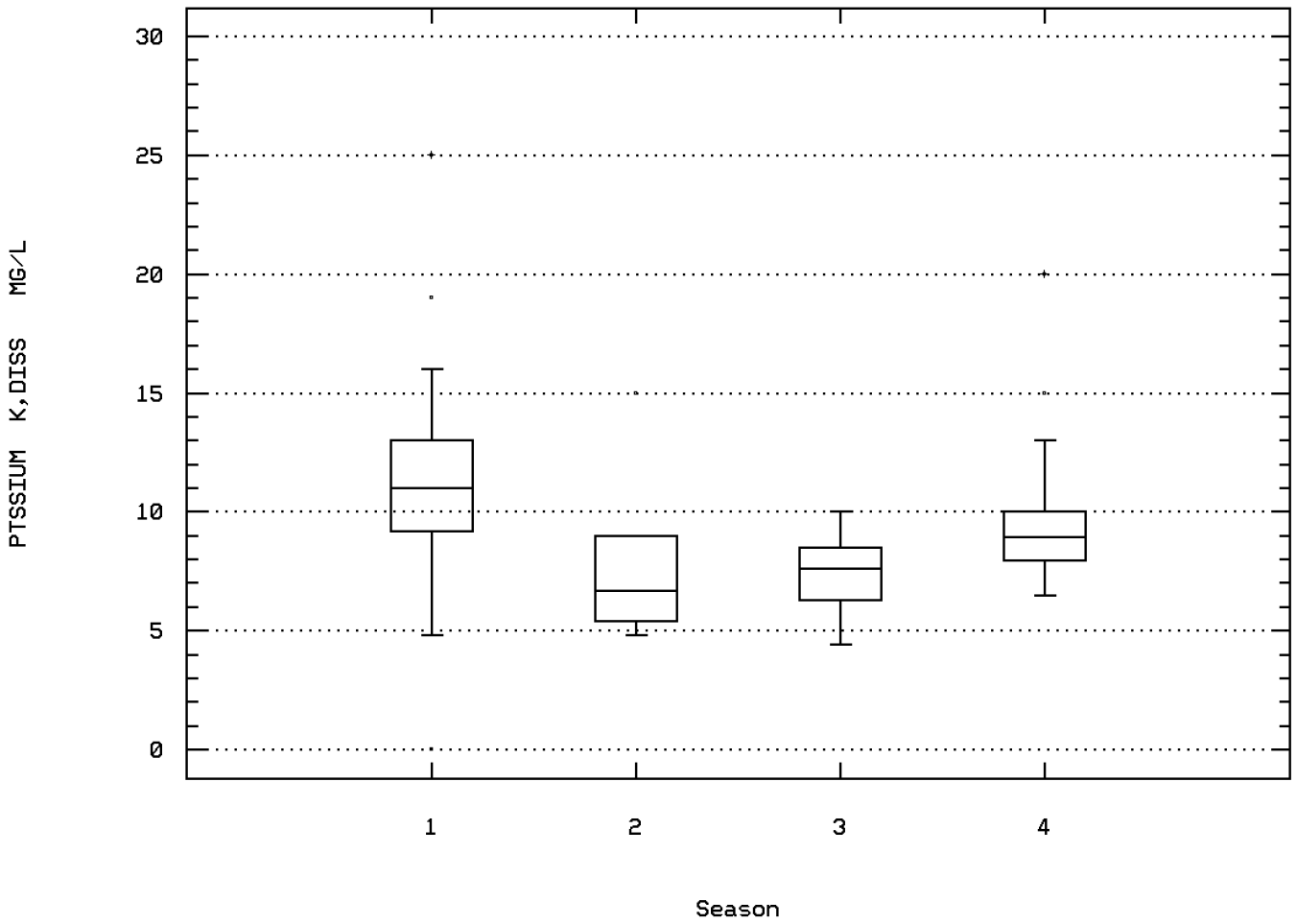
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00935

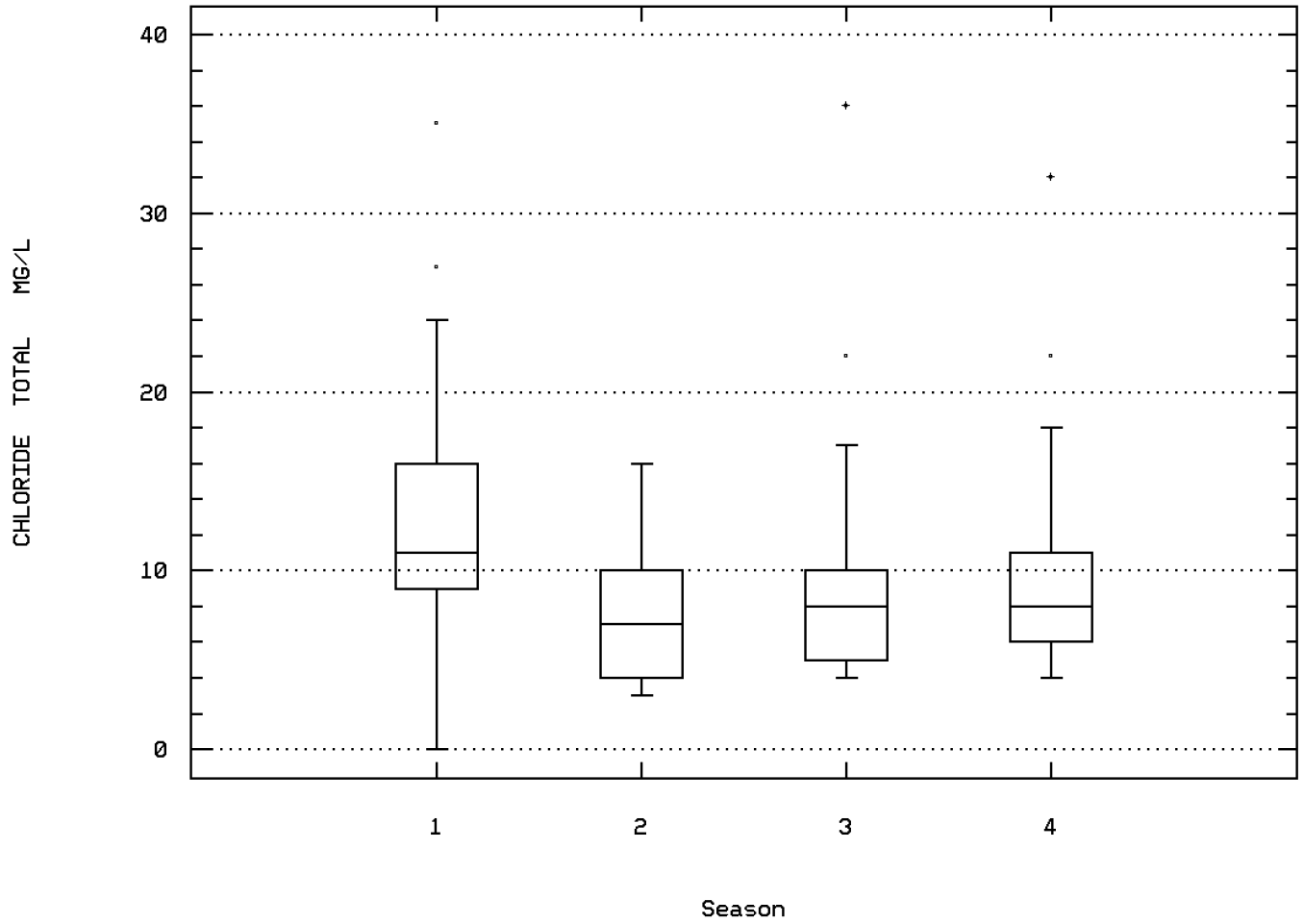
POTASSIUM, DISSOLVED (MG/L AS K)



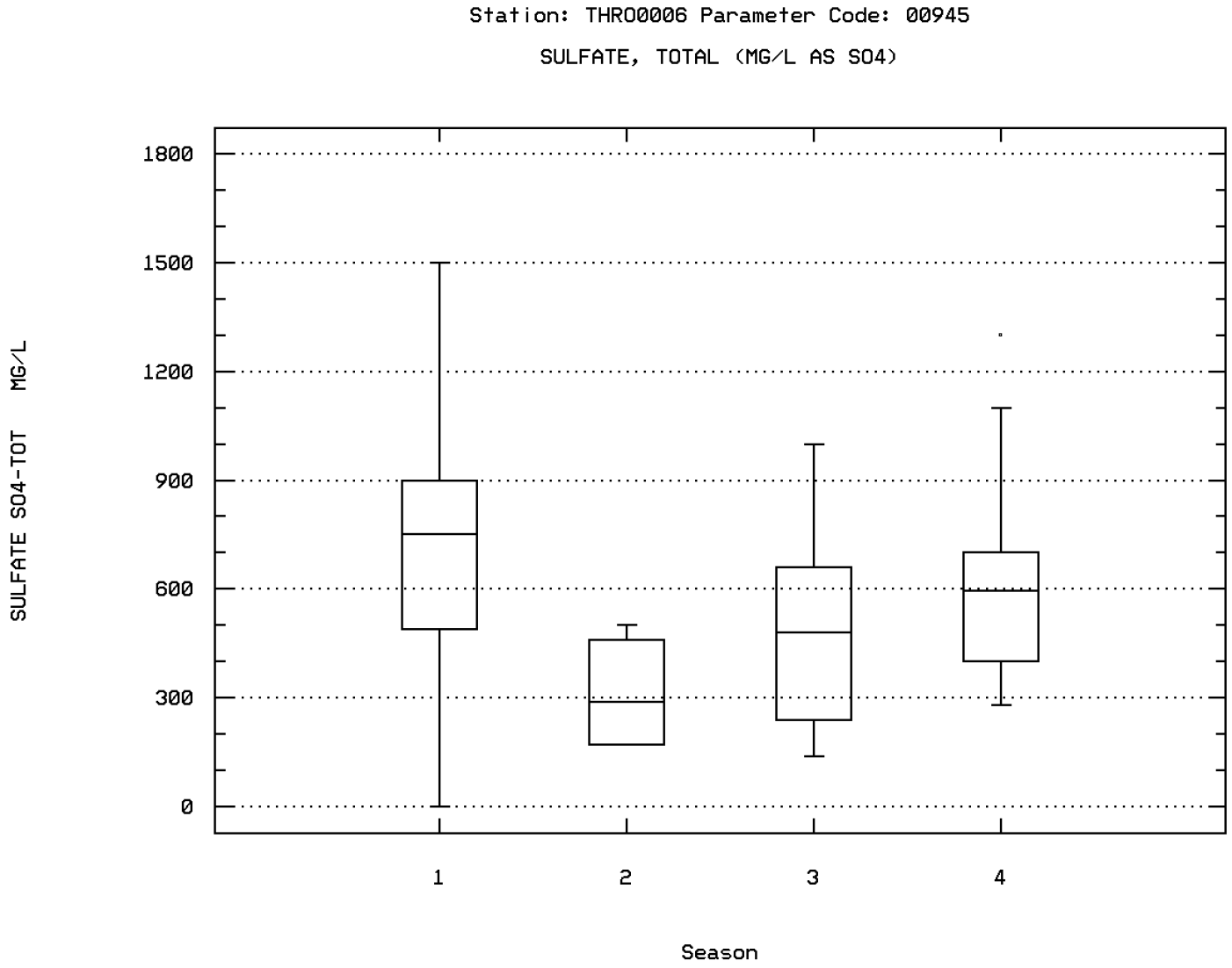
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 00940

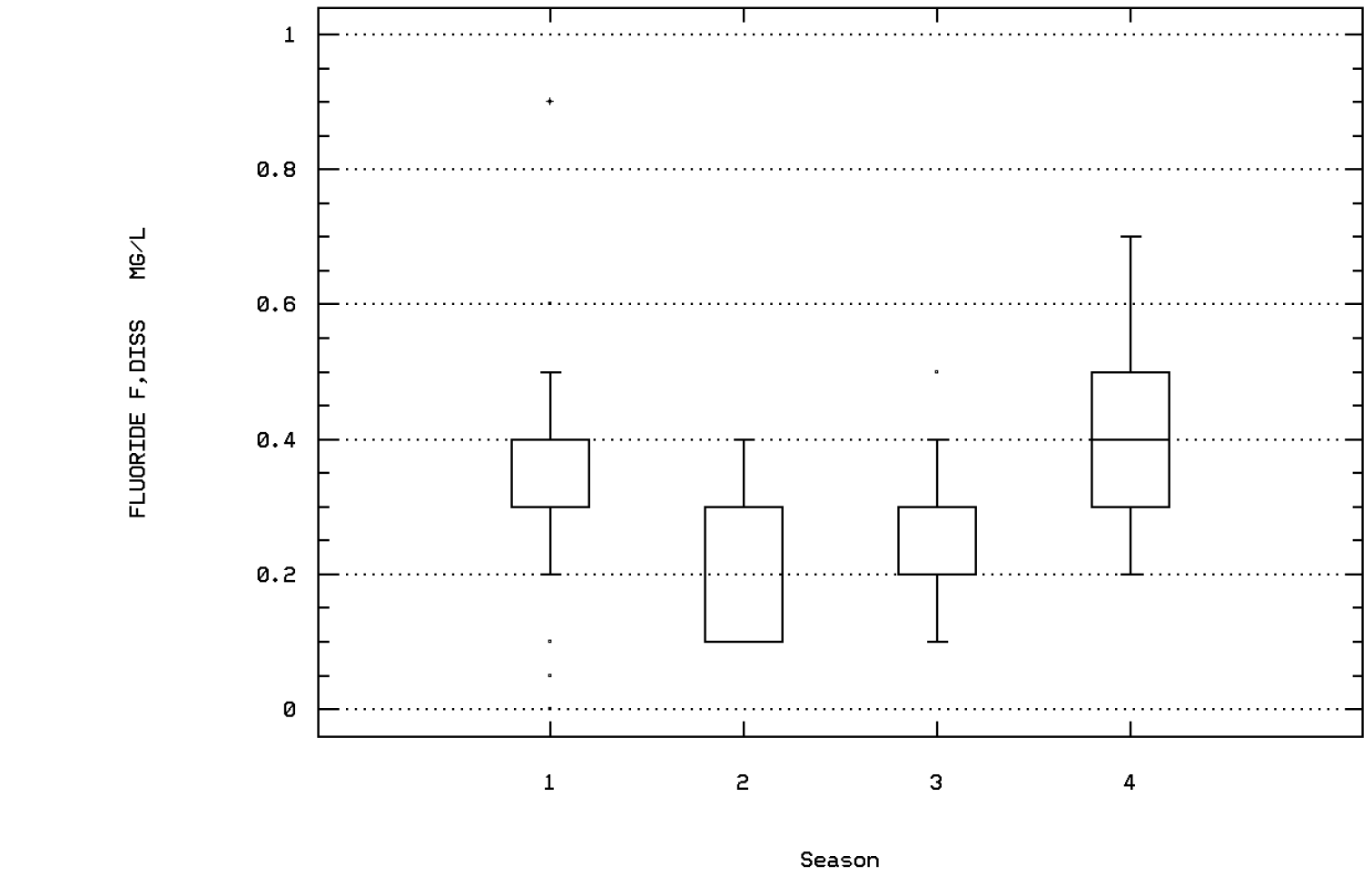
CHLORIDE,TOTAL IN WATER



LITTLE MISSOURI RIVER NR WATFORD CITY,



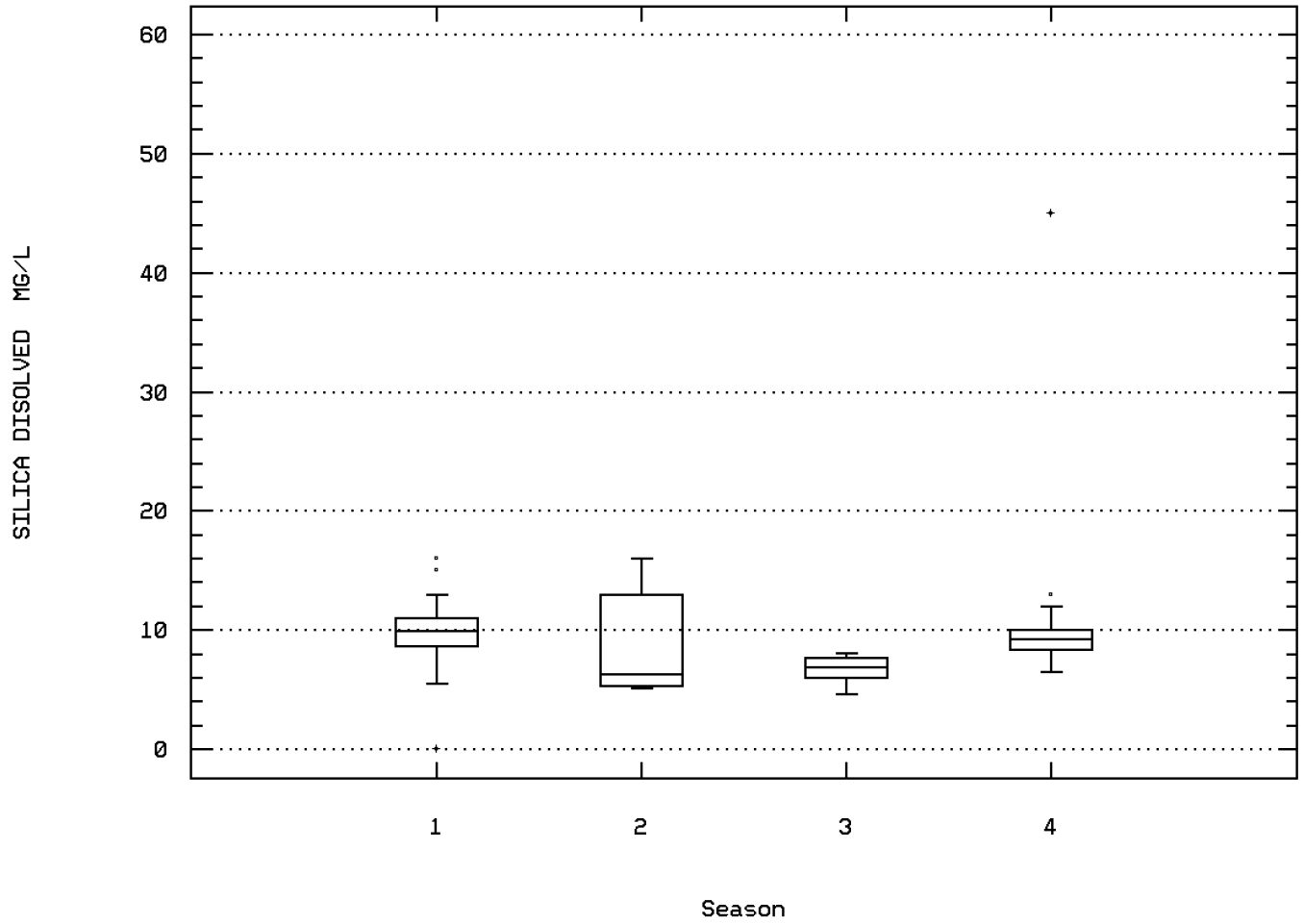
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 00955

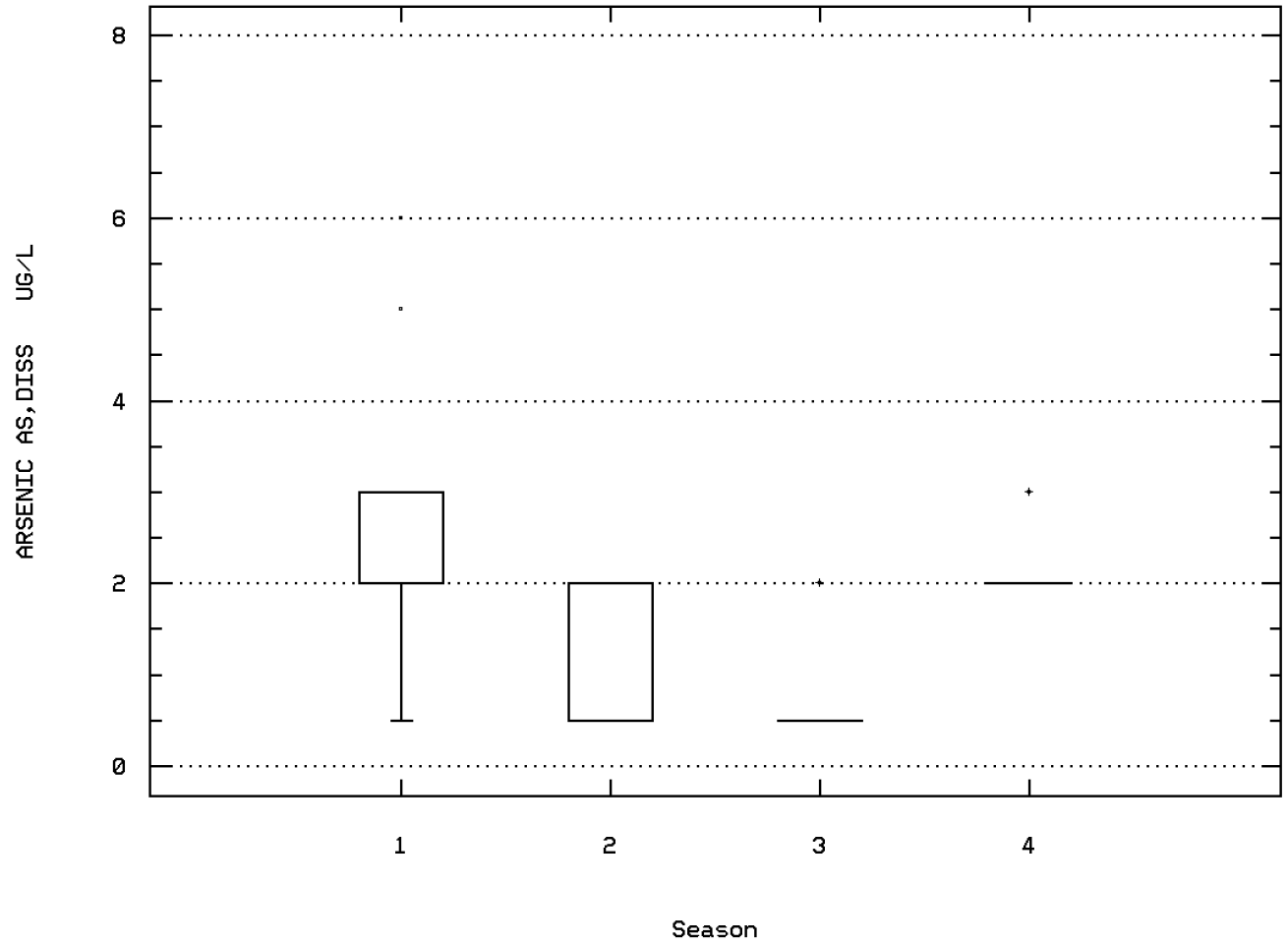
SILICA, DISSOLVED (MG/L AS SI02)



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 01000

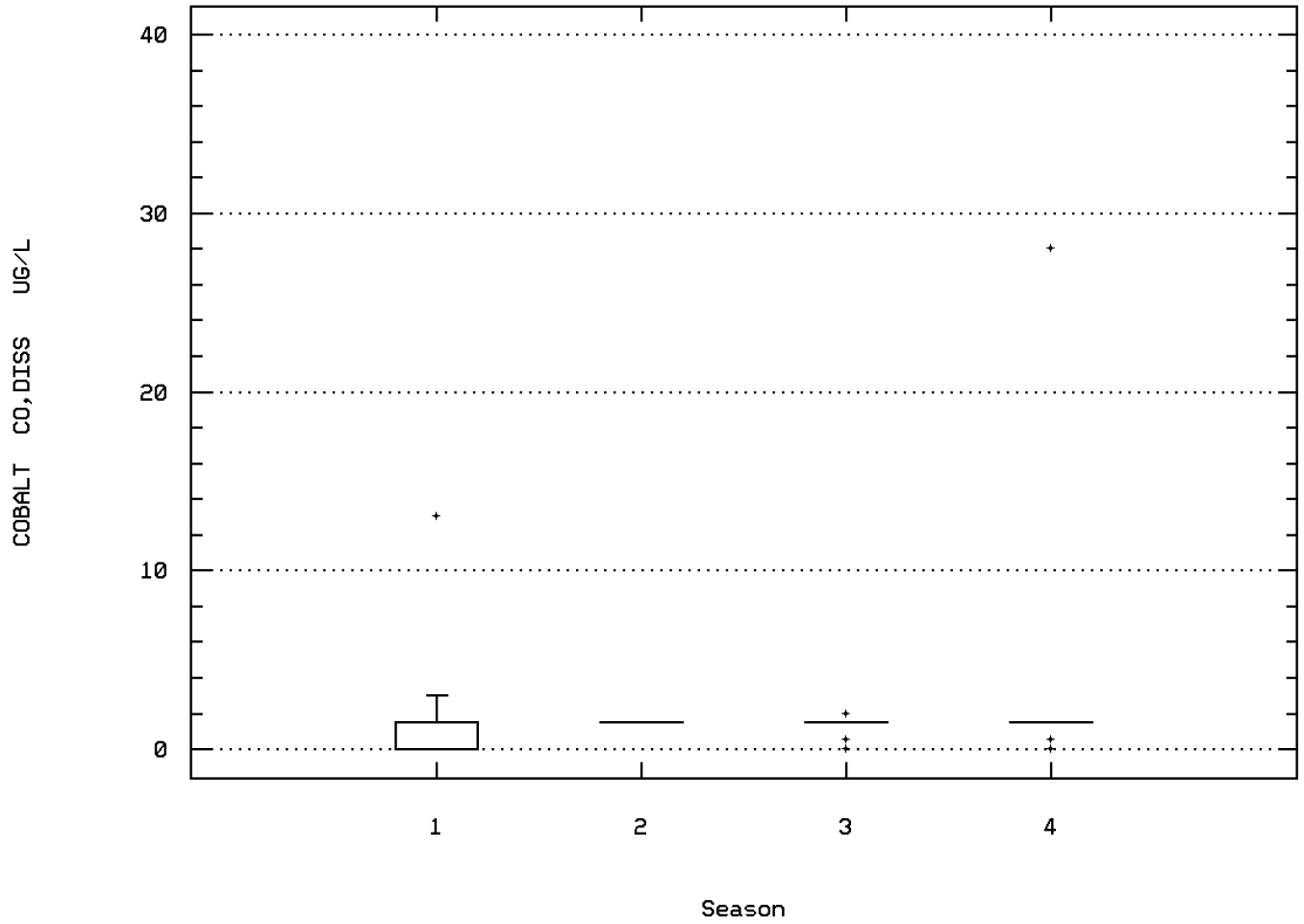
ARSENIC, DISSOLVED (UG/L AS AS)



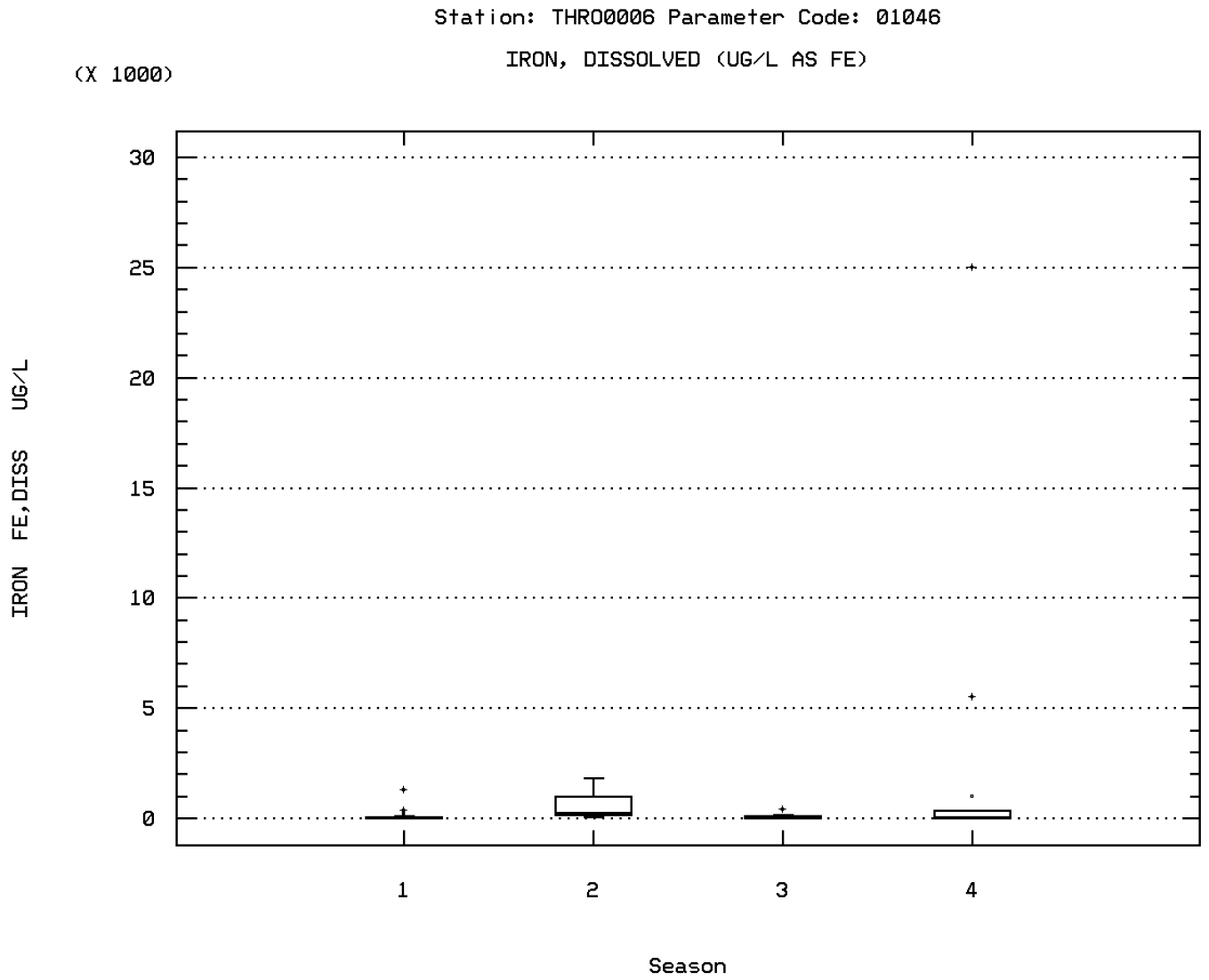
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 01035

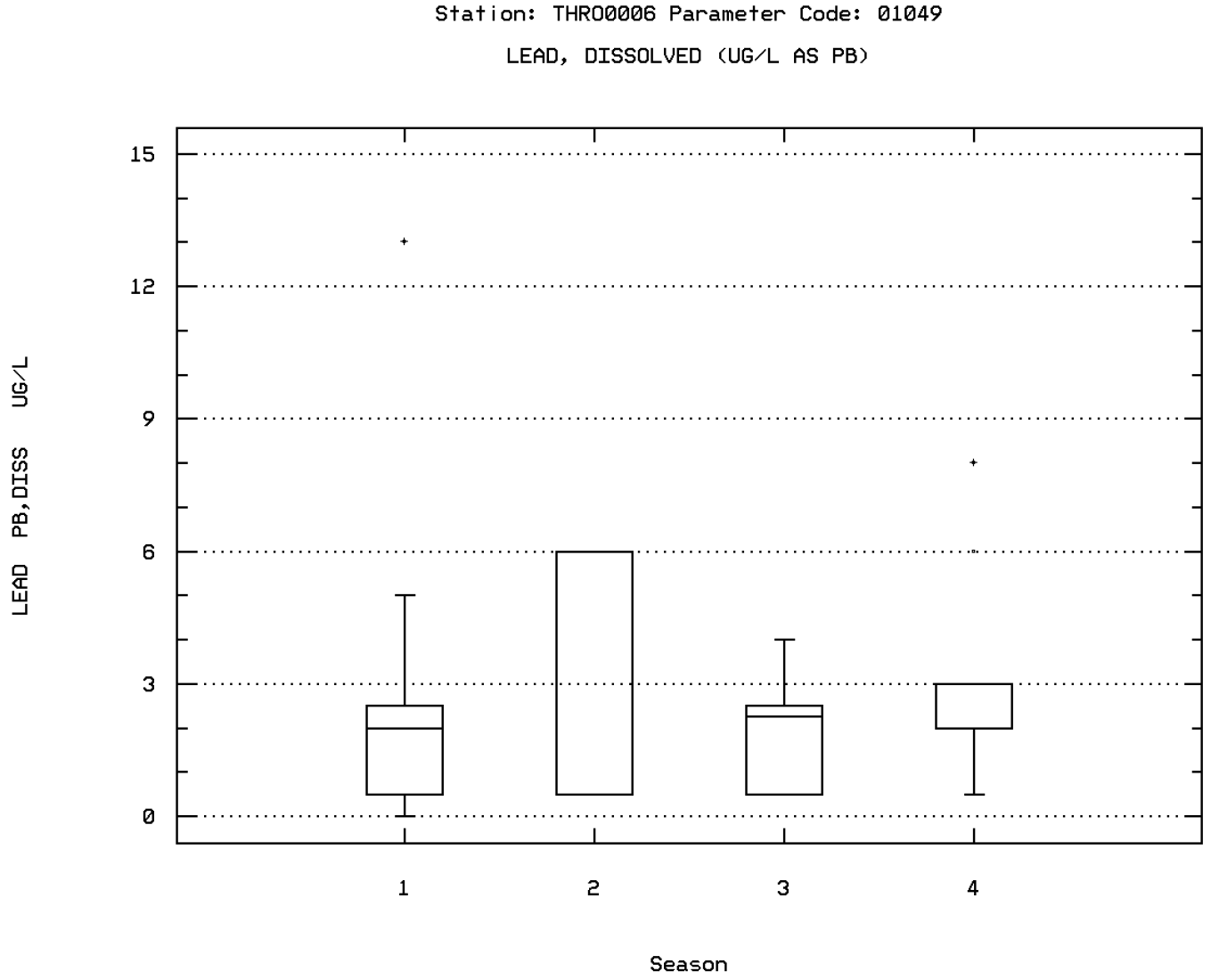
COBALT, DISSOLVED (UG/L AS CO)



LITTLE MISSOURI RIVER NR WATFORD CITY,



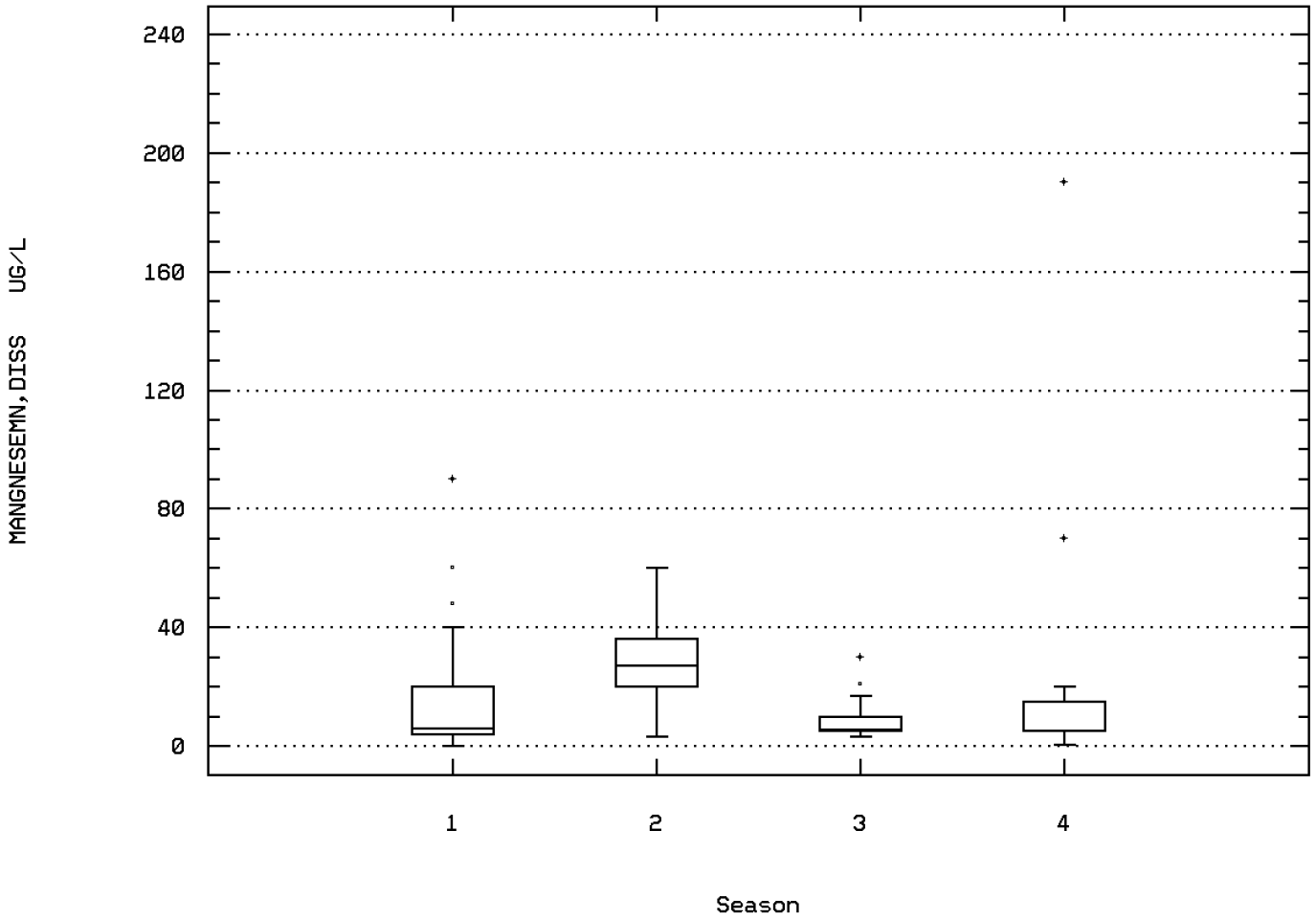
LITTLE MISSOURI RIVER NR WATFORD CITY,



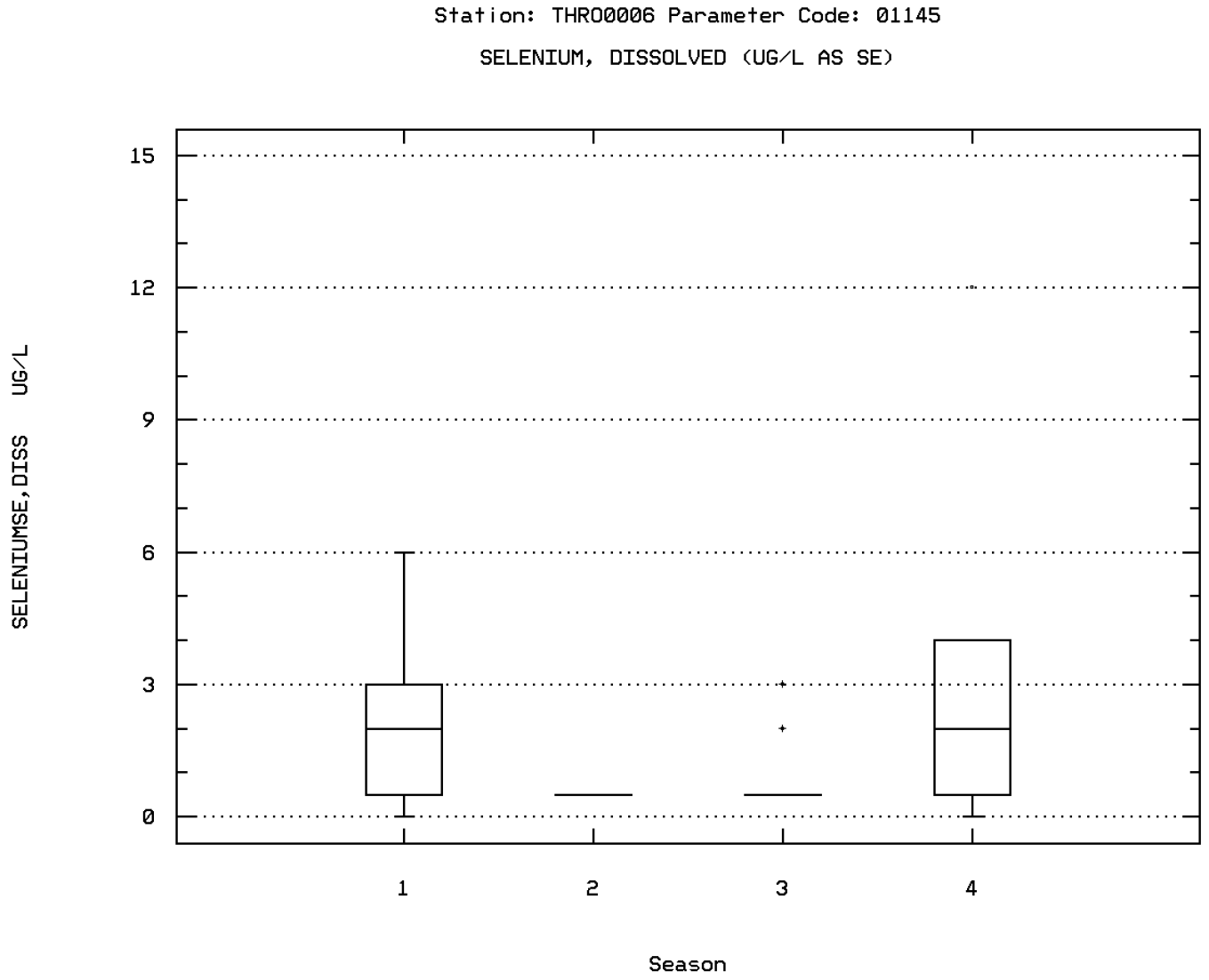
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THR00006 Parameter Code: 01056

MANGANESE, DISSOLVED (UG/L AS MN)



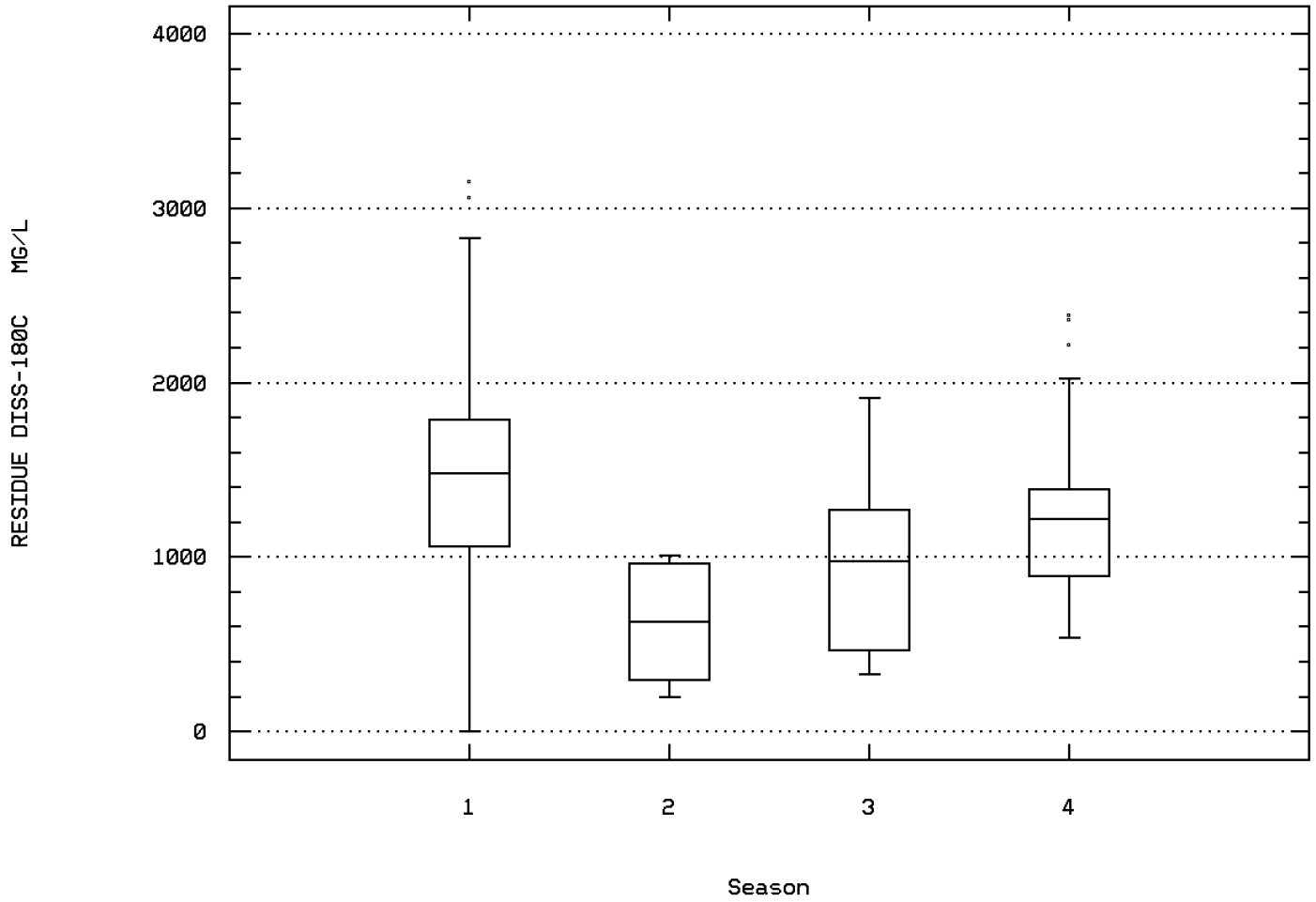
LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 70300

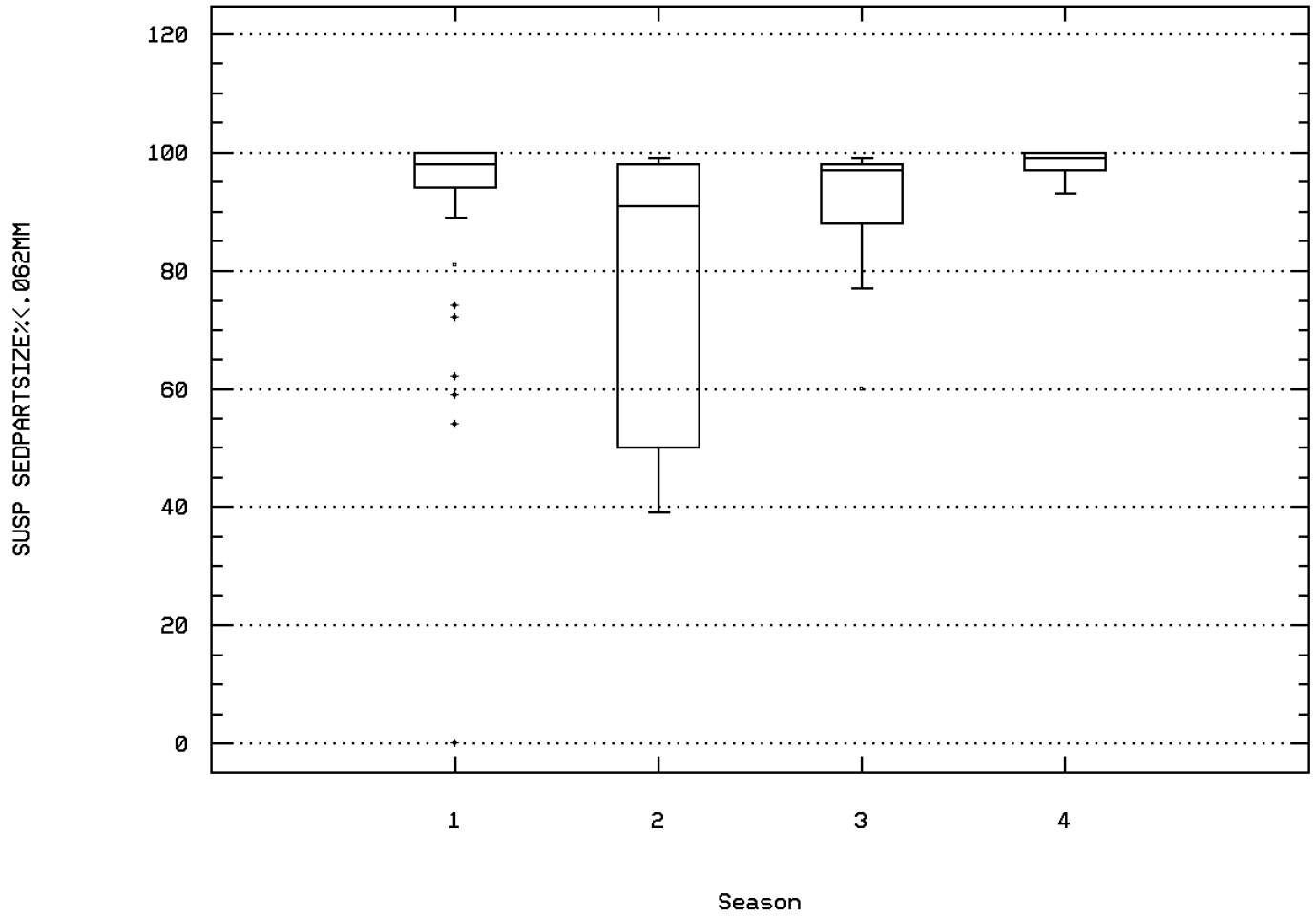
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



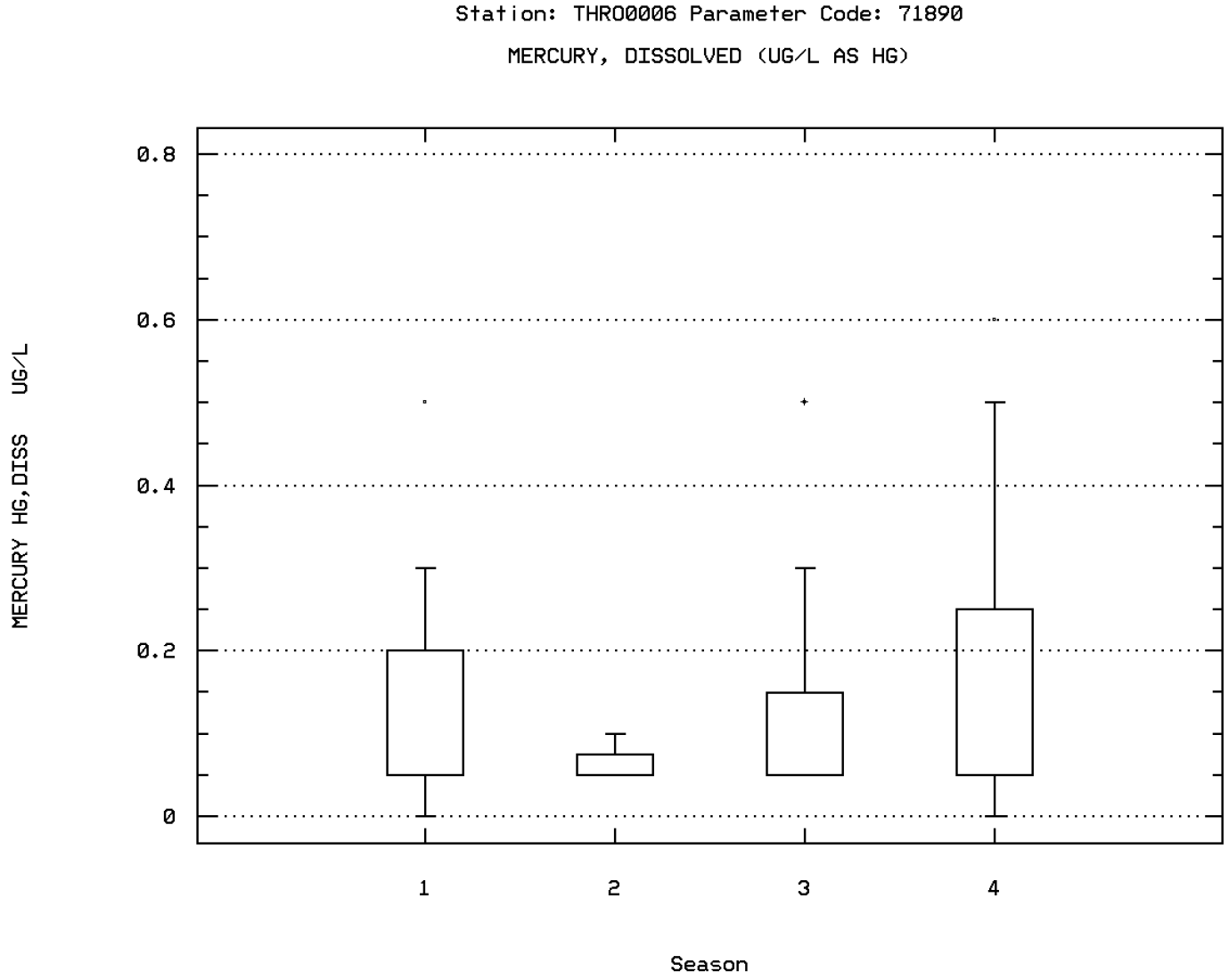
LITTLE MISSOURI RIVER NR WATFORD CITY,

Station: THRO0006 Parameter Code: 70331

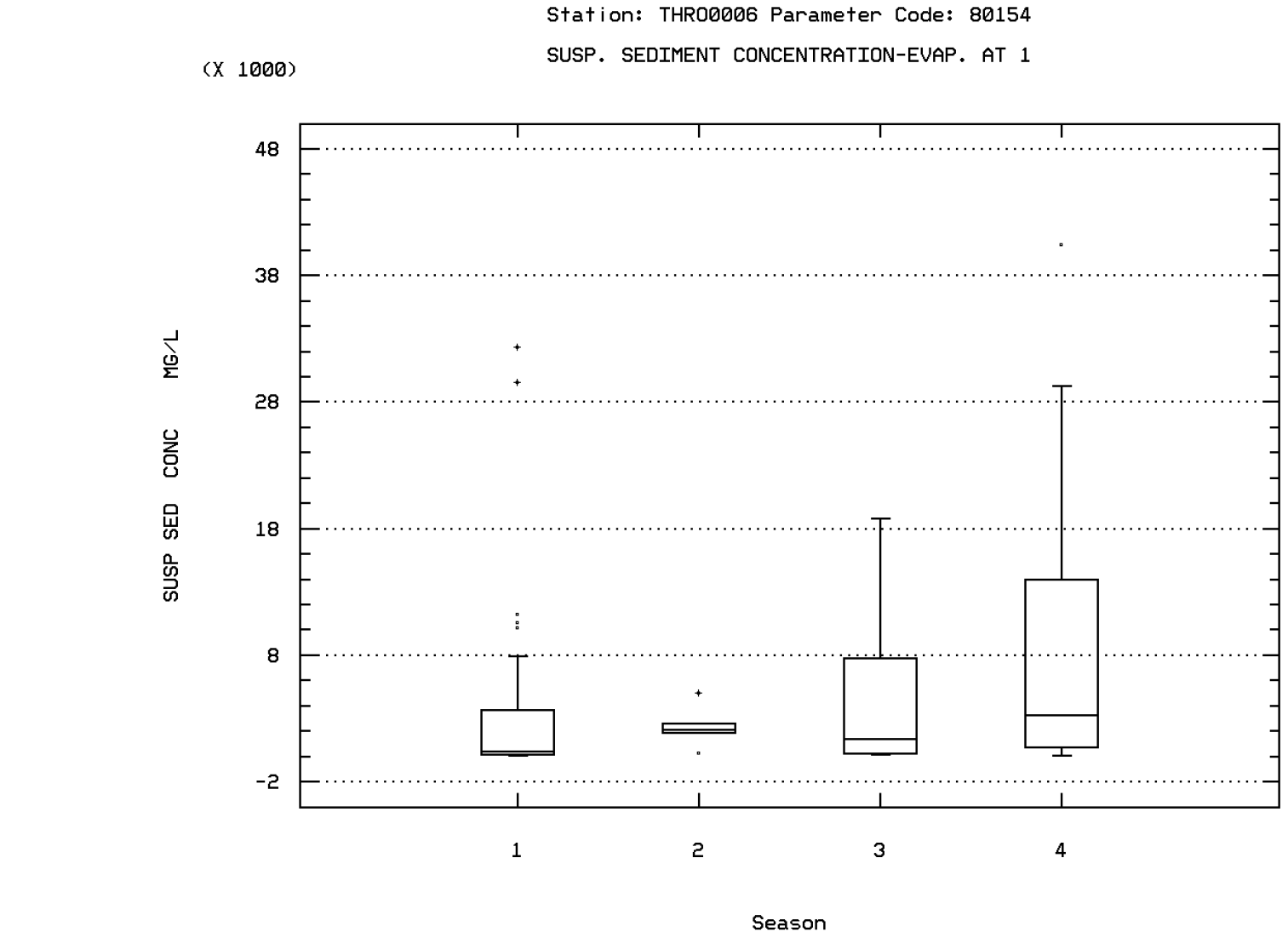
SUSPENDED SED SIEVE DIAMETER,% FINER TH



LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,



LITTLE MISSOURI RIVER NR WATFORD CITY,

Station Inventory for Station: THRO0007

NPS Station ID: THRO0007
LAT/LON: 47.598059/-103.266170
Agency: 11NPSWRD
Date Created: 09/14/96
Location: LITTLE MISSOURI RIVER-NORTH UNIT-EAST
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): THRO_SW27
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 1820
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LONG X DIVIDE NORTH DAKOTA-MCKENZIE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE LATITUDE AND LONGITUDE COORDINATES OF THIS SITE ARE TAKEN AT AN OLD GAGING STATION SITE IN THE LITTLE MISSOURI RIVER ALONG THE SOUTHERN BOUNDARY IN THE EASTERN REGION OF THEODORE ROOSEVELT NATIONAL PARK'S NORTH UNIT. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2350.	2350.	3430.	1270.	2332800.	1527.351	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.35	8.35	8.4	8.3	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.347	8.347	8.4	8.3	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	387.	387.	525.	249.	38088.	195.161	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	465.5	465.5	641.	290.	61600.5	248.194	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.15	0.15	0.3	0.	0.045	0.212	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	326.	326.	364.	288.	2888.	53.74	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	66.6	66.6	70.1	63.1	24.5	4.95	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	38.7	38.7	50.1	27.3	259.92	16.122	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	415.5	415.5	613.	218.	78012.5	279.307	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	9.8	9.8	14.	5.6	35.28	5.94	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	70.5	70.5	79.	62.	144.5	12.021	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	11.05	11.05	13.7	8.4	14.045	3.748	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	13.5	13.5	19.	8.	60.5	7.778	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	848.	848.	1230.	466.	291848.	540.23	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	90.	90.	93.	87.	18.	4.243	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1628.5	1628.5	2310.	947.	928884.5	963.787	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	1.42	1.42	2.04	0.8	0.769	0.877	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	44.	44.	60.	28.	512.	22.627	**	**	**	**

** - Less 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: THRO0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	1	0.50	2	1	0.50									

& - 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: THRO0008

NPS Station ID: THRO0008
LAT/LON: 47.612504/-103.303338
Agency: 11NPSWRD
Date Created: 09/14/96
Location: STEVENS SPRING
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW24
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2120
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE LONG X DIVIDE NORTH DAKOTA-MCKENZIE 7.5 CO. MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE NORTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS NORTH OF LITTLE MISSOURI RIVER. IT IS EAST OF THE 2466' PEAK AND OUTSIDE OF THE NORTHERN HALF OF THE LOOP FORMED BY THE BUCKHORN TRAIL. THIS SPRING RECEIVES LOW TO MODERATE BISON USE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	3966.	3966.	4200.	3732.	109512.	330.926	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	7.8	7.8	8.4	7.2	0.72	0.849	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.474	7.474	8.4	7.2	0.932	0.965	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.034	0.034	0.063	0.004	0.002	0.042	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	1135.	1135.	1150.	1120.	450.	21.213	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	1375.	1375.	1380.	1370.	50.	7.071	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	4.5	4.5	9.	0.	40.5	6.364	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.1	0.1	0.2	0.	0.02	0.141	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	279.	279.	282.	276.	18.	4.243	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	52.2	52.2	53.5	50.9	3.38	1.838	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	36.1	36.1	36.1	36.1	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	988.	988.	996.	980.	128.	11.314	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	25.75	25.75	25.8	25.7	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	88.5	88.5	89.	88.	0.5	0.707	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	6.85	6.85	7.	6.7	0.045	0.212	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	1275.	1275.	1340.	1210.	8450.	91.924	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	96.5	96.5	101.	92.	40.5	6.364	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	3045.	3045.	3110.	2980.	8450.	91.924	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	8.07	8.07	14.1	2.04	72.722	8.528	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	19.	19.	25.	13.	72.	8.485	**	**	**	**

** - Less 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: THRO0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0009

NPS Station ID: THRO0009
LAT/LON: 46.962226/-103.343616
Agency: 112WRD
Date Created: 07/20/84
Location: FRANK MINE LAKE-MAIN 140-100-07ABD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 465744103203701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203061
RF1 Mile Point: 9.410
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10130202044000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/02/84-04/02/84	1	2560.	2560.	2560.	2560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/02/84-04/02/84	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/02/84-04/02/84	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/02/84-04/02/84	1	794.328	794.328	794.328	794.328	0.	0.	**	**	**	**
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	04/02/84-04/02/84	1	670.	670.	670.	670.	0.	0.	**	**	**	**
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	04/02/84-04/02/84	1	12.	12.	12.	12.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	04/02/84-04/02/84	1	470.	470.	470.	470.	0.	0.	**	**	**	**
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	04/02/84-04/02/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	04/02/84-04/02/84	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	04/02/84-04/02/84	1	4000.	4000.	4000.	4000.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	04/02/84-04/02/84	1	980.	980.	980.	980.	0.	0.	**	**	**	**
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	04/02/84-04/02/84	1	17.	17.	17.	17.	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	04/02/84-04/02/84	1	410.	410.	410.	410.	0.	0.	**	**	**	**
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	04/02/84-04/02/84	1	18.	18.	18.	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: THRO0009

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	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	1	1.00							1	1	1.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	1	1.00							1	1	1.00			

& - 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: THRO0010

NPS Station ID: THRO0010
Location: 138-101-01CBB
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC:
Major Basin:
Minor Basin:
RF1 Index:
RF3 Index: 10110203005804.76
Description:

LAT/LON: 46.795004/-103.367781
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 5.12

Agency: 112WRD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
STORET Station ID(s): 464742103220401
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 3.10
Distance from RF3: 0.02

Date Created: 09/03/88
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: THRO0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	572.	572.	572.	572.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.29	1.29	1.29	1.29	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.11	1.11	1.11	1.11	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	840.	840.	840.	840.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	691.	691.	691.	691.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	186.	186.	186.	186.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.74	4.74	4.74	4.74	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2388.	2388.	2388.	2388.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	3.3	3.3	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: THRO0010

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0011

NPS Station ID: THRO0011
LAT/LON: 46.795004/-103.367781
Agency: 112WRD
Date Created: 05/19/84
Location: DAVIS CREEK 138-101-01CBB
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464742103220400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203060
RF1 Mile Point: 11.720
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203006011.06
RF3 Mile Point: 11.06
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	572.	572.	572.	572.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.29	1.29	1.29	1.29	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.11	1.11	1.11	1.11	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	840.	840.	840.	840.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	691.	691.	691.	691.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	186.	186.	186.	186.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.74	4.74	4.74	4.74	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2388.	2388.	2388.	2388.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	3.3	3.3	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: THRO0011

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0012

NPS Station ID: THRO0012
LAT/LON: 46.956948/-103.378616
Agency: 11NPSWRD
Date Created: 09/14/96
Location: SHEEP BUTTE SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW05
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2670
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHWEST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SPRING IS EAST OF THE SCENIC LOOP DRIVE. IT IS SOUTHEAST OF BOICOURT SPRING.
THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466.
FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	1468.	1468.	1505.	1431.	2738.	52.326	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.35	8.35	8.6	8.1	0.125	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.282	8.282	8.6	8.1	0.134	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.005	0.005	0.008	0.003	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	225.	225.	227.	223.	8.	2.828	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	264.5	264.5	277.	252.	312.5	17.678	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.05	0.05	0.1	0.	0.005	0.071	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	221.5	221.5	233.	210.	264.5	16.263	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	31.7	31.7	33.6	29.8	7.22	2.687	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	34.6	34.6	36.2	33.	5.12	2.263	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	265.	265.	276.	254.	242.	15.556	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	7.75	7.75	7.9	7.6	0.045	0.212	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	72.	72.	72.	72.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	1.85	1.85	2.	1.7	0.045	0.212	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	509.5	509.5	521.	498.	264.5	16.263	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	65.	65.	72.	58.	98.	9.899	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	990.	990.	1020.	960.	1800.	42.426	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	1.12	1.12	1.69	0.55	0.65	0.806	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	2.5	2.5	3.	2.	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

EPA Water Quality Criteria Analysis for Station: THRO0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0013

NPS Station ID: THRO0013
LAT/LON: 46.790837/-103.385837
Agency: 112WRD
Date Created: 05/19/84
Location: DAVIS CREEK 138-101-02CDB
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464727103230900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203060
RF1 Mile Point: 11.290
Distance from RF1: 5.40
On/Off RF1: ON
RF3 Index: 10110203144800.00
RF3 Mile Point: 3.76
Distance from RF3: 0.14
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	479.	479.	479.	479.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	23000.	23000.	23000.	23000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.31	1.31	1.31	1.31	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.28	1.28	1.28	1.28	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.66	1.66	1.66	1.66	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	818.	818.	818.	818.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	603.	603.	603.	603.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	209.	209.	209.	209.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	76.	76.	76.	76.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	66.	66.	66.	66.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.84	4.84	4.84	4.84	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2354.	2354.	2354.	2354.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	4.9	4.9	4.9	4.9	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: THRO0013

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0014

NPS Station ID: THRO0014
LAT/LON: 46.929059/-103.388866
Agency: 11NPSWRD
Date Created: 09/14/96
Location: BUCK HILL SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW16
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2560
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHWEST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SPRING IS NEAR BUCK HILL VIEWING AREA. IT IS AT THE HEAD OF AN INTERMITTENT STREAM THAT ORIGINATES SOUTH OF THE PARKING AREA ALONG THE SCENIC LOOP DRIVE. THE STREAM FLOWS INTO PADDOCK CREEK. THE ROAD TO BUCK HILL VIEWING AREA HAS WASHED OUT DUE TO SLUMPAGE CAUSED BY THE SPRING. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2093.5	2093.5	3746.	441.	5461512.5	2336.988	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.3	8.3	8.5	8.1	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.255	8.255	8.5	8.1	0.084	0.29	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.006	0.006	0.008	0.003	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	413.5	413.5	736.	91.	208012.5	456.084	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	467.	467.	823.	111.	253472.	503.46	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	17.5	17.5	35.	0.	612.5	24.749	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	317.5	317.5	546.	89.	104424.5	323.148	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	61.5	61.5	95.7	27.3	2339.28	48.366	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	39.8	39.8	74.5	5.1	2408.18	49.073	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	461.8	461.8	860.	63.6	317126.48	563.14	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	9.45	9.45	16.	2.9	85.805	9.263	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	69.	69.	77.	61.	128.	11.314	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2.6	2.6	5.	0.2	11.52	3.394	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	7.	7.	12.	2.	50.	7.071	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	821.5	821.5	1530.	113.	1003944.5	1001.97	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1643.	1643.	3020.	266.	3792258.	1947.372	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.38	0.38	0.56	0.2	0.065	0.255	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	31.5	31.5	60.	3.	1624.5	40.305	**	**	**	**

** - Less 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: THRO0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	1	0.50	2	1	0.50									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	1	0.50	2	1	0.50									

& - 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: THRO0015

NPS Station ID: THRO0015
LAT/LON: 46.995837/-103.391949
Agency: 112WRD
Date Created: 05/19/84
Location: GOVERNMENT CREEK 141-100-29CCB
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465945103233100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203062
RF1 Mile Point: 7.720
Distance from RF1: 6.70
On/Off RF1: ON
RF3 Index: 10130202043400.33
RF3 Mile Point: 4.31
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	422.	422.	422.	422.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	24000.	24000.	24000.	24000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.26	1.26	1.26	1.26	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.26	1.26	1.26	1.26	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.49	1.49	1.49	1.49	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	999.	999.	999.	999.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	343.	343.	343.	343.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	211.	211.	211.	211.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	3.74	3.74	3.74	3.74	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	1806.	1806.	1806.	1806.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	2.8	2.8	2.8	2.8	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: THRO0015

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0016

NPS Station ID: THRO0016
LAT/LON: 46.995837/-103.391949
Agency: 112WRD
Date Created: 09/03/88
Location: 141-100-29CCB
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465945103233101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 13.50
On/Off RF1:
RF3 Index: 10130202044100.00
RF3 Mile Point: 0.05
Distance from RF3: 0.17
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	422.	422.	422.	422.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	24000.	24000.	24000.	24000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.26	1.26	1.26	1.26	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.26	1.26	1.26	1.26	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.49	1.49	1.49	1.49	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	999.	999.	999.	999.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	343.	343.	343.	343.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	211.	211.	211.	211.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	3.74	3.74	3.74	3.74	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	1806.	1806.	1806.	1806.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	2.8	2.8	2.8	2.8	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: THRO0016

			Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011 URANIUM, NATURAL, TOTAL	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: THRO0017

NPS Station ID: THRO0017
LAT/LON: 46.968615/-103.398060
Agency: 11NPSWRD
Date Created: 09/14/96
Location: BOICOURT SPRING "A"
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW17
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2220
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE WANNAGAN CREEK EAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THIS SITE IS ONE OF TWO DISHTANKS AT BOICOURT SPRING. THE SPRING IS AT THE HEAD OF AN INTERMITTENT STREAM ORIGINATING WITHIN THE PARK BOUNDARY BUT FLOWING INTO GOVERNMENT CREEK NORTH OF THE PARK BOUNDARY. SITE THRO_SW04 IS THE OTHER DISHTANK AT BOICOURT SPRING. THE SITE IS EAST OF THE SCENIC LOOP DRIVE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-10/30/86	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-10/30/86	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-10/30/86	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-10/30/86	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	1	809.	809.	809.	809.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-10/30/86	1	988.	988.	988.	988.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-10/30/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-10/30/86	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	1	311.	311.	311.	311.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-10/30/86	1	51.5	51.5	51.5	51.5	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-10/30/86	1	44.2	44.2	44.2	44.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-10/30/86	1	471.	471.	471.	471.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-10/30/86	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-10/30/86	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-10/30/86	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-10/30/86	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-10/30/86	1	613.	613.	613.	613.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-10/30/86	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-10/30/86	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-10/30/86	1	1690.	1690.	1690.	1690.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-10/30/86	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-10/30/86	1	850.	850.	850.	850.	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: THRO0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	1	1.00	1	1	1.00									

& - 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: THRO0018

NPS Station ID: THRO0018
LAT/LON: 46.968615/-103.398337
Agency: 11NPSWRD
Date Created: 09/14/96
Location: BOICOURT SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW04
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2220
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE WANNAGAN CREEK EAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THIS SITE IS ONE OF TWO DISHTANKS AT BOICOURT SPRING. THE SPRING IS AT THE HEAD OF AN INTERMITTENT STREAM ORIGINATING WITHIN THE PARK BOUNDARY BUT FLOWING INTO GOVERNMENT CREEK NORTH OF THE PARK BOUNDARY. SITE THRO_SW17 IS THE OTHER DISHTANK AT BOICOURT SPRING. THE SITE IS EAST OF SCENIC LOOP DRIVE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	1049.5	1049.5	1083.	1016.	2244.5	47.376	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	354.5	354.5	367.	342.	312.5	17.678	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	401.5	401.5	416.	387.	420.5	20.506	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	15.5	15.5	16.	15.	0.5	0.707	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	258.5	258.5	270.	247.	264.5	16.263	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	37.9	37.9	41.8	34.	30.42	5.515	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	39.8	39.8	40.2	39.4	0.32	0.566	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	157.	157.	168.	146.	242.	15.556	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	4.2	4.2	4.4	4.	0.08	0.283	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	42.25	42.25	56.	28.5	378.125	19.445	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	1.65	1.65	1.7	1.6	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	220.5	220.5	225.	216.	40.5	6.364	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	72.	72.	76.	68.	32.	5.657	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	676.5	676.5	704.	649.	1512.5	38.891	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.94	0.94	1.18	0.7	0.115	0.339	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	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: THRO0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0019

NPS Station ID: THRO0019
LAT/LON: 46.852782/-103.400005
Agency: 112WRD
Date Created: 05/19/84
Location: SULLY CREEK 139-101-15DAA
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465110103240000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 16.30
On/Off RF1:
RF3 Index: 10130202059400.00
RF3 Mile Point: 0.47
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	509.	509.	509.	509.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	21000.	21000.	21000.	21000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.22	1.22	1.22	1.22	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	966.	966.	966.	966.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	440.	440.	440.	440.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	175.	175.	175.	175.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2034.	2034.	2034.	2034.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	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: THRO0019

			Total	Exceed	Prop.	8/01-2/14			2/15-3/19			3/20-4/30			5/01-7/31		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011 URANIUM, NATURAL, TOTAL	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: THRO0020

NPS Station ID: THRO0020
LAT/LON: 46.852782/-103.400005
Agency: 112WRD
Date Created: 09/03/88
Location: 139-101-15DAA
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465110103240001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 1.90
On/Off RF1:
RF3 Index: 10110203127300.00
RF3 Mile Point: 0.18
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	509.	509.	509.	509.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	21000.	21000.	21000.	21000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.22	1.22	1.22	1.22	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	966.	966.	966.	966.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	440.	440.	440.	440.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	175.	175.	175.	175.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2034.	2034.	2034.	2034.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	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: THRO0020

			Total	Exceed	Prop.	8/01-2/14			2/15-3/19			3/20-4/30			5/01-7/31		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011 URANIUM, NATURAL, TOTAL	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: THRO0021

NPS Station ID: THRO0021
LAT/LON: 47.575559/-103.406949
Agency: 11NPSWRD
Date Created: 09/14/96
Location: ACHENBACH SPRING
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW22
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2470
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SPERATI NORTH DAKOTA-MCKENZIE 7.5 CO. MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS IN THE ACHENBACH HILLS OF THEODORE ROOSEVELT NATIONAL PARK'S NORTH UNIT. THE SITE IS SOUTH OF THE LITTLE MISSOURI RIVER AND NORTHEAST OF THE HIGHEST PEAK WITHIN THE NORTH UNIT. THE ELEVATION OF THAT PEAK IS 2687 FEET. THE SPRING IS AT THE END OF A SHORT TRAIL THAT BRANCHES OFF THE ACHENBACH TRAIL. THE SPRING RECEIVES VERY HIGH BISON USE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	879.5	879.5	901.	858.	924.5	30.406	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	7.2	7.2	7.4	7.	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.155	7.155	7.4	7.	0.084	0.29	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.07	0.07	0.1	0.04	0.002	0.043	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	415.	415.	416.	414.	2.	1.414	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	507.	507.	508.	506.	2.	1.414	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.1	0.1	0.2	0.	0.02	0.141	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	485.5	485.5	488.	483.	12.5	3.536	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	102.5	102.5	103.	102.	0.5	0.707	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	55.85	55.85	56.7	55.	1.445	1.202	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	35.45	35.45	35.8	35.1	0.245	0.495	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	4.45	4.45	4.9	4.	0.405	0.636	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	104.5	104.5	113.	96.	144.5	12.021	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	325.	325.	338.	312.	338.	18.385	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	554.5	554.5	563.	546.	144.5	12.021	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.51	0.51	0.85	0.17	0.231	0.481	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	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: THRO0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0022

NPS Station ID: THRO0022
LAT/LON: 46.900920/-103.413616
Agency: 11NPSWRD
Date Created: 09/14/96
Location: PECK HILL SEEP
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW26
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2600
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS NEAR THE HEAD OF AN INTERMITTENT STREAM ORIGINATING SOUTH OF THE PARK BOUNDARY BELOW PECK HILL AND FLOWING INTO SHEEP CREEK. IT IS NEXT TO INTERSTATE 94 WEST OF THE PAINTED CANYON OVERLOOK AND REST AREA. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH. (701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/30/88-11/30/88	1	1750.	1750.	1750.	1750.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/30/88-11/30/88	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/30/88-11/30/88	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/30/88-11/30/88	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/30/88-11/30/88	1	516.	516.	516.	516.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/30/88-11/30/88	1	626.	626.	626.	626.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/30/88-11/30/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/30/88-11/30/88	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/30/88-11/30/88	1	204.	204.	204.	204.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	11/30/88-11/30/88	1	46.4	46.4	46.4	46.4	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/30/88-11/30/88	1	21.3	21.3	21.3	21.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	11/30/88-11/30/88	1	347.	347.	347.	347.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/30/88-11/30/88	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/30/88-11/30/88	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	11/30/88-11/30/88	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/30/88-11/30/88	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/88-11/30/88	1	486.	486.	486.	486.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/30/88-11/30/88	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/30/88-11/30/88	1	32.	32.	32.	32.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/30/88-11/30/88	1	1240.	1240.	1240.	1240.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	11/30/88-11/30/88	1	3.28	3.28	3.28	3.28	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	1	2500.	2500.	2500.	2500.	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: THRO0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	1	1.00	1	1	1.00									

& - 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: THRO0023

NPS Station ID: THRO0023
LAT/LON: 47.618059/-103.417504
Agency: 11NPSWRD
Date Created: 09/14/96
Location: HAGAN SPRING
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW23
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2300
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SPERATI NORTH DAKOTA-MCKENZIE 7.5 CO. MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE NORTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS NORTH OF THE LITTLE MISSOURI RIVER AND WEST OF APPEL CREEK. IT IS EAST OF AN UNMAINTAINED TRAIL THAT BRANCHES OFF THE SCENIC DRIVE. THE SPRING RECEIVES VERY HIGH BISON USE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	3180.5	3180.5	5120.	1241.	7523320.5	2742.867	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	7.4	7.4	7.5	7.3	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.389	7.389	7.5	7.3	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.041	0.041	0.05	0.032	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	978.	978.	1570.	386.	700928.	837.214	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	1190.5	1190.5	1910.	471.	1035360.5	1017.527	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.2	0.2	0.3	0.1	0.02	0.141	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	483.	483.	684.	282.	80802.	284.257	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	94.05	94.05	129.	59.1	2443.005	49.427	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	60.3	60.3	88.	32.6	1534.58	39.174	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	738.95	738.95	1430.	47.9	955100.205	977.292	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	18.9	18.9	37.	0.8	655.22	25.597	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	26.25	26.25	46.	6.5	780.125	27.931	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	6.5	6.5	6.7	6.3	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	980.	980.	1600.	360.	768800.	876.812	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.8	0.8	1.5	0.1	0.98	0.99	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	50.	50.	87.	13.	2738.	52.326	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2473.5	2473.5	4080.	867.	5161684.5	2271.934	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.225	0.225	0.25	0.2	0.001	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 time series plot

EPA Water Quality Criteria Analysis for Station: THRO0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	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: THRO0024

NPS Station ID: THRO0024
LAT/LON: 46.811948/-103.418893
Agency: 112WRD
Date Created: 09/03/88
Location: 139-101-34BCC
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464843103250801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 3.80
On/Off RF1:
RF3 Index: 10110203005900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	462.	462.	462.	462.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	23000.	23000.	23000.	23000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	812.	812.	812.	812.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	449.	449.	449.	449.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	195.	195.	195.	195.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.07	4.07	4.07	4.07	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	2.9	2.9	2.9	2.9	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: THRO0024

			Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011 URANIUM, NATURAL, TOTAL	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: THRO0025

NPS Station ID: THRO0025
LAT/LON: 46.811948/-103.418893
Agency: 112WRD
Date Created: 05/19/84
Location: DAVIS CREEK 139-101-34BCC
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464843103250800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203060
RF1 Mile Point: 9.090
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203005900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	462.	462.	462.	462.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	23000.	23000.	23000.	23000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	812.	812.	812.	812.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	449.	449.	449.	449.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	195.	195.	195.	195.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.07	4.07	4.07	4.07	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	2.9	2.9	2.9	2.9	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: THRO0025

			Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011 URANIUM, NATURAL, TOTAL	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: THRO0026

NPS Station ID: THRO0026
LAT/LON: 46.909559/-103.419643
Agency: 11NPSWRD
Date Created: 09/14/96
Location: DEDICATION SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW15
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2600
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHWEST NORTH DAKOTA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS WEST OF PECK HILL AND NORTHWEST OF PECK HILL SEEP. IT IS AT THE HEAD OF A DRAW FROM WHICH A PRIMARY INTERMITTENT STREAM ORIGINATES. THE STREAM CONVERGES WITH ANOTHER PRIMARY INTERMITTENT STREAM AND FLOWS INTO PADDOCK CREEK. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	8944.5	8944.5	9430.	8459.	471420.5	686.601	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	1585.	1585.	1590.	1580.	50.	7.071	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	1835.	1835.	1840.	1830.	50.	7.071	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	49.5	49.5	51.	48.	4.5	2.121	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.6	0.6	0.8	0.4	0.08	0.283	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	174.	174.	206.	142.	2048.	45.255	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	29.9	29.9	38.4	21.4	144.5	12.021	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	24.05	24.05	26.7	21.4	14.045	3.748	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	2370.	2370.	2540.	2200.	57800.	240.416	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	78.5	78.5	80.2	76.8	5.78	2.404	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	72.25	72.25	96.	48.5	1128.125	33.588	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	3690.	3690.	3940.	3440.	125000.	353.553	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2.05	2.05	2.1	2.	0.005	0.071	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	10.	10.	18.	2.	128.	11.314	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	7075.	7075.	7510.	6640.	378450.	615.183	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.09	0.09	0.16	0.02	0.01	0.099	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	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: THRO0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0027

NPS Station ID: THRO0027
LAT/LON: 46.932087/-103.431421
Agency: 11NPSWRD
Date Created: 09/14/96
Location: PADDOCK CREEK AT LOOP ROAD EAST
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): THRO_08
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2240
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHWEST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS AT THE EASTERN INTERSECTION OF PADDOCK CREEK AND THE SCENIC LOOP DRIVE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466 FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1 ##	2.5	2.5	2.5	2.5	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: THRO0027

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	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: THRO0028

NPS Station ID: THRO0028
LAT/LON: 47.606115/-103.435559
Agency: 11NPSWRD
Date Created: 09/14/96
Location: OVERLOOK SPRING
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW28
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2080
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SPERATI NORTH DAKOTA-MCKENZIE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IN THE NORTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS NORTH OF THE LITTLE MISSOURI RIVER. THE SITE IS AT THE END OF AN UNMAINTAINED TRAIL THAT BRANCHES OFF THE SCENIC DRIVE PRIOR TO OXBOW OVERLOOK VIEWING AREA. THE SPRING RECEIVES VERY LOW BISON USE. IT IS NOT ON THE USUAL BISON PATHWAY. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2144.5	2144.5	2260.	2029.	26680.5	163.342	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.35	8.35	8.5	8.2	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.325	8.325	8.5	8.2	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.005	0.005	0.006	0.003	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	807.5	807.5	809.	806.	4.5	2.121	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	966.5	966.5	984.	949.	612.5	24.749	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	9.5	9.5	19.	0.	180.5	13.435	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.2	0.2	0.4	0.	0.08	0.283	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	2.35	2.35	2.6	2.1	0.125	0.354	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	1.3	1.3	1.4	1.2	0.02	0.141	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	541.	541.	559.	523.	648.	25.456	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	70.3	70.3	71.2	69.4	1.62	1.273	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	74.25	74.25	99.	49.5	1225.125	35.002	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	5.	5.	5.	5.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	379.	379.	386.	372.	98.	9.899	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1420.	1420.	1430.	1410.	200.	14.142	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.35	0.35	0.54	0.16	0.072	0.269	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	1	2.	2.	2.	2.	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: THRO0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0029

NPS Station ID: THRO0029 LAT/LON: 47.560809/-103.442392 Agency: 11NPSWRD Date Created: 09/14/96
Location: LITTLE MISSOURI RIVER-NORTH UNIT-SOUTHWEST FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): THRO_SW25
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10110205 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2160 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110205 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SPERATI NORTH DAKOTA-MCKENZIE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE LATITUDE AND LONGITUDE COORDINATES OF THIS SITE ARE TAKEN AT THE CENTER OF THE LITTLE MISSOURI RIVER AT THE SOUTHWEST BOUNDARY OF THEODORE ROOSEVELT NATIONAL PARK'S NORTH UNIT. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2191.	2191.	3400.	982.	2923362.	1709.784	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	353.5	353.5	545.	162.	73344.5	270.822	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	431.5	431.5	665.	198.	109044.5	330.219	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.15	0.15	0.3	0.	0.045	0.212	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	339.5	339.5	431.	248.	16744.5	129.401	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	71.95	71.95	84.1	59.8	295.245	17.183	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	38.8	38.8	53.7	23.9	444.02	21.072	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	388.5	388.5	623.	154.	109980.5	331.633	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	8.7	8.7	13.1	4.3	38.72	6.223	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	66.5	66.5	76.	57.	180.5	13.435	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	10.05	10.05	13.3	6.8	21.125	4.596	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	14.5	14.5	22.	7.	112.5	10.607	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	810.	810.	1270.	350.	423200.	650.538	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	138.5	138.5	139.	138.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1550.	1550.	2400.	700.	1445000.	1202.082	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2.005	2.005	2.53	1.48	0.551	0.742	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	36.5	36.5	38.	35.	4.5	2.121	**	**	**	**

** - Less 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: THRO0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0030

NPS Station ID: THRO0030
LAT/LON: 46.825838/-103.443892
Agency: 112WRD
Date Created: 05/19/84
Location: DAVIS CREEK 139-101-29ADD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464933103263800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203060
RF1 Mile Point: 6.940
Distance from RF1: 4.70
On/Off RF1: ON
RF3 Index: 10130202059900.00
RF3 Mile Point: 0.13
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	511.	511.	511.	511.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	25000.	25000.	25000.	25000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.59	1.59	1.59	1.59	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	839.	839.	839.	839.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	447.	447.	447.	447.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	205.	205.	205.	205.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.34	4.34	4.34	4.34	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2012.	2012.	2012.	2012.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	3.1	3.1	3.1	3.1	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: THRO0030

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0031

NPS Station ID: THRO0031
LAT/LON: 46.825838/-103.443892
Agency: 112WRD
Date Created: 09/03/88
Location: 139-101-29ADD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464933103263801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 2.00
On/Off RF1:
RF3 Index: 10110203127400.00
RF3 Mile Point: 0.08
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/22/83-08/22/83	1	511.	511.	511.	511.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/22/83-08/22/83	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/22/83-08/22/83	1	25000.	25000.	25000.	25000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/22/83-08/22/83	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/22/83-08/22/83	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/22/83-08/22/83	1	1.59	1.59	1.59	1.59	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/22/83-08/22/83	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/22/83-08/22/83	1	839.	839.	839.	839.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/22/83-08/22/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/22/83-08/22/83	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/22/83-08/22/83	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/22/83-08/22/83	1	447.	447.	447.	447.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/22/83-08/22/83	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/22/83-08/22/83	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/22/83-08/22/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/22/83-08/22/83	1	205.	205.	205.	205.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/22/83-08/22/83	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/22/83-08/22/83	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/22/83-08/22/83	1	4.34	4.34	4.34	4.34	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/22/83-08/22/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/22/83-08/22/83	1	2012.	2012.	2012.	2012.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/22/83-08/22/83	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/22/83-08/22/83	1	3.1	3.1	3.1	3.1	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: THRO0031

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0032

NPS Station ID: THRO0032
LAT/LON: 47.585281/-103.447782
Agency: 11NPSWRD
Date Created: 09/14/96
Location: MANDAL SPRING
FIPS State/County: 38053 NORTH DAKOTA/MCKENZIE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW21
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110205
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2060
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110205
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SPERATI NORTH DAKOTA-MCKENZIE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE NORTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS WEST OF THE LITTLE MISSOURI RIVER AND IS SOUTH OF SPERATI POINT. IT IS ALONG AN INTERMITTENT STREAM THAT CROSSES THE ACHENBACH TRAIL AND ENTERS THE LITTLE MISSOURI RIVER. THE TANK IS BURIED BY SILT. IT RECEIVES MODERATE TO HIGH BISON USE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-10/30/86	1	1146.	1146.	1146.	1146.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-10/30/86	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-10/30/86	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-10/30/86	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	1	541.	541.	541.	541.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-10/30/86	1	660.	660.	660.	660.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-10/30/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-10/30/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-10/30/86	1	693.	693.	693.	693.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-10/30/86	1	128.	128.	128.	128.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-10/30/86	1	90.3	90.3	90.3	90.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-10/30/86	1	49.2	49.2	49.2	49.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-10/30/86	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-10/30/86	1 ##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-10/30/86	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-10/30/86	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-10/30/86	1	341.	341.	341.	341.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-10/30/86	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-10/30/86	1	357.	357.	357.	357.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-10/30/86	1	945.	945.	945.	945.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-10/30/86	1	0.14	0.14	0.14	0.14	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: THRO0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	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

Station Inventory for Station: THRO0033

NPS Station ID: THRO0033
LAT/LON: 46.969726/-103.490003
Agency: 112WRD
Date Created: 01/25/77
Location: JONES CREEK AT CONFLUENCE, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465811103292401
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110203001200.00
RF3 Mile Point: 0.41
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/04/67-10/04/67	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/04/67-10/04/67	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/04/67-10/04/67	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	10/04/67-10/04/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/04/67-10/04/67	1	162.	162.	162.	162.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/04/67-10/04/67	1	198.	198.	198.	198.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/04/67-10/04/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/04/67-10/04/67	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/04/67-10/04/67	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/04/67-10/04/67	1	116.	116.	116.	116.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/04/67-10/04/67	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/04/67-10/04/67	1	188.	188.	188.	188.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/04/67-10/04/67	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/04/67-10/04/67	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/04/67-10/04/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/67-10/04/67	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/67-10/04/67	1	537.	537.	537.	537.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/04/67-10/04/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/04/67-10/04/67	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/04/67-10/04/67	1	953.	953.	953.	953.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/04/67-10/04/67	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: THRO0033

Parameter				Total	Exceed	Prop.	8/01-2/14			2/15-3/19			3/20-4/30			5/01-7/31		
		Std. Type	Std. Value	Obs	Standard	Exceeding	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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0034

NPS Station ID: THRO0034
LAT/LON: 46.973337/-103.492505
Agency: 112WRD
Date Created: 03/17/77
Location: LITTLE MISSOURI BEEF CORRAL #6, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465824103293300
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110203001100.00
RF3 Mile Point: 0.05
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	1	3500.	3500.	3500.	3500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/76-11/15/76	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	557.	557.	557.	557.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	1	638.	638.	638.	638.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/15/76-11/15/76	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	1	640.	640.	640.	640.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	1	2720.	2720.	2720.	2720.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	1	2660.	2660.	2660.	2660.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	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

EPA Water Quality Criteria Analysis for Station: THRO0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0035

NPS Station ID: THRO0035
LAT/LON: 47.020559/-103.496116
Agency: 112WRD
Date Created: 02/28/78
Location: 141-101-21BBC
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 470114103294601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203062
RF1 Mile Point: 1.750
Distance from RF1: 4.20
On/Off RF1: ON
RF3 Index: 10110203006200.99
RF3 Mile Point: 6.72
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/22/67-09/22/67	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/22/67-09/22/67	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/22/67-09/22/67	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/22/67-09/22/67	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/22/67-09/22/67	1	1480.	1480.	1480.	1480.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/22/67-09/22/67	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/22/67-09/22/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/22/67-09/22/67	1	430.	430.	430.	430.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/22/67-09/22/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/22/67-09/22/67	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/22/67-09/22/67	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/22/67-09/22/67	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/22/67-09/22/67	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/22/67-09/22/67	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/22/67-09/22/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/22/67-09/22/67	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/22/67-09/22/67	1	5100.	5100.	5100.	5100.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/22/67-09/22/67	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/22/67-09/22/67	1	8950.	8950.	8950.	8950.	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: THRO0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
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	1	1.00	1	1	1.00									

& - 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: THRO0036

NPS Station ID: THRO0036
LAT/LON: 46.956948/-103.500503
Agency: 11NPSWRD
Date Created: 09/14/96
Location: PADDOCK CREEK AT HALLIDAY WELL
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): THRO_07
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2260
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHWEST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS APPROXIMATELY 100 FEET SOUTH OF THE PADDOCK CREEK-SCENIC LOOP DRIVE WESTERN INTERSECTION. IT IS ALONG PADDOCK CREEK BETWEEN THE PEACEFUL VALLEY PICNIC AREA AND HALLIDAY WELL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1 ##	2.5	2.5	2.5	2.5	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: THRO0036

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	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: THRO0037

NPS Station ID: THRO0037
LAT/LON: 47.049448/-103.501393
Agency: 112WRD
Date Created: 02/28/78
Location: 141-101-08BBD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 470258103300501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110203006200.99
RF3 Mile Point: 6.72
Distance from RF3: 0.19
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0037

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: THRO0038

NPS Station ID: THRO0038
LAT/LON: 46.969170/-103.505838
Agency: 11NPSWRD
Date Created: 09/14/96
Location: BIG PLATEAU SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW12
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2415
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SPRING IS WEST OF THE LITTLE MISSOURI RIVER AND IS IN THE SOUTHERN AREA OF BIG PLATEAU. IT IS NORTHWEST OF PEACEFUL VALLEY AND SOUTHEAST OF BEEF CORRAL BOTTOM. THE PETRIFIED FOREST HIKING AND HORSE TRAIL PASSES BY SOUTH OF THE SPRING. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	1766.5	1766.5	1892.	1641.	31500.5	177.484	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	7.35	7.35	7.7	7.	0.245	0.495	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.222	7.222	7.7	7.	0.278	0.527	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.06	0.06	0.1	0.02	0.003	0.057	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	405.5	405.5	410.	401.	40.5	6.364	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	495.5	495.5	501.	490.	60.5	7.778	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	830.	830.	977.	683.	43218.	207.889	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	211.	211.	253.	169.	3528.	59.397	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	73.6	73.6	83.9	63.3	212.18	14.566	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	117.	117.	134.	100.	578.	24.042	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	1.8	1.8	1.9	1.7	0.02	0.141	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	23.5	23.5	24.	23.	0.5	0.707	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	4.85	4.85	5.3	4.4	0.405	0.636	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	611.5	611.5	711.	512.	19800.5	140.714	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	237.5	237.5	293.	182.	6160.5	78.489	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1270.	1270.	1440.	1100.	57800.	240.416	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	1.47	1.47	1.47	1.47	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	5.5	5.5	6.	5.	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

EPA Water Quality Criteria Analysis for Station: THRO0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0039

NPS Station ID: THRO0039
LAT/LON: 46.883615/-103.513059
Agency: 112WRD
Date Created: 01/25/77
Location: SULLY CREEK NR HELLICKSON RANCH, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465301103304701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 1.90
On/Off RF1:
RF3 Index: 10130202001824.03
RF3 Mile Point: 29.12
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/01/67-09/01/67	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/67-09/01/67	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/67-09/01/67	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/01/67-09/01/67	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/01/67-09/01/67	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/01/67-09/01/67	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/01/67-09/01/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/67-09/01/67	1	338.	338.	338.	338.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/01/67-09/01/67	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/67-09/01/67	1	135.	135.	135.	135.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/67-09/01/67	1	112.	112.	112.	112.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/67-09/01/67	1	1311.	1311.	1311.	1311.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/67-09/01/67	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/67-09/01/67	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/67-09/01/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/67-09/01/67	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/67-09/01/67	1	2805.	2805.	2805.	2805.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/67-09/01/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/67-09/01/67	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/67-09/01/67	1	4835.	4835.	4835.	4835.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/67-09/01/67	1	6.58	6.58	6.58	6.58	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: THRO0039

Parameter				Total	Exceed	Prop.	8/01-2/14			2/15-3/19			3/20-4/30			5/01-7/31		
		Std. Type	Std. Value	Obs	Standard	Exceeding	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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0040

NPS Station ID: THRO0040
LAT/LON: 46.958338/-103.516116
Agency: 112WRD
Date Created: 03/17/77
Location: LITTLE MISSOURI PEACEFUL VALLEY #5, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465730103305800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203010
RF1 Mile Point: 0.480
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203001200.00
RF3 Mile Point: 0.57
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/11/76-11/11/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/11/76-11/11/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/11/76-11/11/76	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/11/76-11/11/76	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/11/76-11/11/76	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/76-11/11/76	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/11/76-11/11/76	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	1	404.	404.	404.	404.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/11/76-11/11/76	1	438.	438.	438.	438.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/11/76-11/11/76	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/11/76-11/11/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/11/76-11/11/76	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/11/76-11/11/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/11/76-11/11/76	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/11/76-11/11/76	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/11/76-11/11/76	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/11/76-11/11/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/11/76-11/11/76	1	74.	74.	74.	74.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/11/76-11/11/76	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/11/76-11/11/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/11/76-11/11/76	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/11/76-11/11/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/11/76-11/11/76	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/11/76-11/11/76	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/11/76-11/11/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/11/76-11/11/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/11/76-11/11/76	1	1930.	1930.	1930.	1930.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/11/76-11/11/76	1	1910.	1910.	1910.	1910.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/11/76-11/11/76	1	65.1	65.1	65.1	65.1	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/11/76-11/11/76	1	2.62	2.62	2.62	2.62	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/11/76-11/11/76	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

EPA Water Quality Criteria Analysis for Station: THRO0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0041

NPS Station ID: THRO0041
LAT/LON: 47.049448/-103.517226
Agency: 112WRD
Date Created: 01/25/77
Location: LITTLE MISSOURI R NR DRY CREEK, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 470258103310201
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 5.70
On/Off RF1:
RF3 Index: 10110203000903.68
RF3 Mile Point: 6.49
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/20/67-09/20/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/20/67-09/20/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/20/67-09/20/67	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/20/67-09/20/67	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/20/67-09/20/67	1	224.	224.	224.	224.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/20/67-09/20/67	1	273.	273.	273.	273.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/20/67-09/20/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/20/67-09/20/67	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/20/67-09/20/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/20/67-09/20/67	1	15.2	15.2	15.2	15.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/20/67-09/20/67	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/20/67-09/20/67	1	196.	196.	196.	196.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/20/67-09/20/67	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/20/67-09/20/67	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/20/67-09/20/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/20/67-09/20/67	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/20/67-09/20/67	1	231.	231.	231.	231.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/20/67-09/20/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/20/67-09/20/67	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/20/67-09/20/67	1	585.	585.	585.	585.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/20/67-09/20/67	1	0.8	0.8	0.8	0.8	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: THRO0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
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									

& - 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: THRO0042

NPS Station ID: THRO0042
LAT/LON: 46.956670/-103.518366
Agency: 11NPSWRD
Date Created: 09/14/96
Location: KNUTSON CREEK AT LITTLE MISSOURI
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): THRO_06 /THRO_SW19
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2240
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE THEODORE ROOSEVELT NATIONAL PARK. KNUTSON CREEK IS A TRIBUTARY OF THE LITTLE MISSOURI RIVER. THE SITE IS APPROXIMATELY 100 FEET UPSTREAM OF THE KNUTSON CREEK-LITTLE MISSOURI RIVER CONFLUENCE. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	3102.	3102.	4490.	1714.	3853088.	1962.928	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.4	8.4	8.5	8.3	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.389	8.389	8.5	8.3	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	577.5	577.5	775.	380.	78012.5	279.307	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	695.	695.	946.	444.	126002.	354.968	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	1.1	1.1	1.7	0.5	0.72	0.849	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	508.5	508.5	662.	355.	47124.5	217.082	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	96.85	96.85	114.	79.7	588.245	24.254	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	64.7	64.7	91.5	37.9	1436.48	37.901	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	670.5	670.5	979.	362.	190344.5	436.285	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	12.4	12.4	16.5	8.3	33.62	5.798	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	72.5	72.5	76.	69.	24.5	4.95	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	16.6	16.6	21.2	12.	42.32	6.505	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	20.5	20.5	31.	10.	220.5	14.849	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	1255.5	1255.5	1970.	541.	1021020.5	1010.456	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.25	0.25	0.4	0.1	0.045	0.212	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	608.	608.	807.	409.	79202.	281.428	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2480.	2480.	3440.	1520.	1843200.	1357.645	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	4.59	4.59	5.4	3.78	1.312	1.146	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	1887.5	1887.5	3600.	175.	5865312.5	2421.841	**	**	**	**

** - Less 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: THRO0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	1	0	0.00										1	0	0.00
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	2	1.00	2	2	1.00									

& - 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: THRO0043

NPS Station ID: THRO0043
LAT/LON: 47.058615/-103.520004
Agency: 112WRD
Date Created: 03/17/77
Location: LITTLE MISSOURI BRIGG'S OLD PLACE, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 470331103311200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 6.20
On/Off RF1:
RF3 Index: 10110203000903.68
RF3 Mile Point: 4.52
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	1	3500.	3500.	3500.	3500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/76-11/15/76	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	551.	551.	551.	551.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	1	627.	627.	627.	627.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	1	710.	710.	710.	710.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/15/76-11/15/76	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	1	9.4	9.4	9.4	9.4	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	1	2750.	2750.	2750.	2750.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	1	2770.	2770.	2770.	2770.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	1	3.74	3.74	3.74	3.74	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	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

EPA Water Quality Criteria Analysis for Station: THRO0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0044

NPS Station ID: THRO0044
LAT/LON: 47.016948/-103.525282
Agency: 112WRD
Date Created: 02/28/78
Location: 141-101-19ACD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 470101103313101
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203062
RF1 Mile Point: 0.510
Distance from RF1: 1.10
On/Off RF1: ON
RF3 Index: 10110203006200.99
RF3 Mile Point: 9.95
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	07/24/69-07/24/69	1	7.83	7.83	7.83	7.83	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/69-07/24/69	1	7.83	7.83	7.83	7.83	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/69-07/24/69	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/24/69-07/24/69	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/24/69-07/24/69	1	264.	264.	264.	264.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/24/69-07/24/69	1	322.	322.	322.	322.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/24/69-07/24/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/69-07/24/69	1	2900.	2900.	2900.	2900.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/24/69-07/24/69	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/69-07/24/69	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/69-07/24/69	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/69-07/24/69	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/24/69-07/24/69	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/24/69-07/24/69	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/69-07/24/69	1	19.7	19.7	19.7	19.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/69-07/24/69	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/69-07/24/69	1	3900.	3900.	3900.	3900.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/69-07/24/69	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/69-07/24/69	1	21.4	21.4	21.4	21.4	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/69-07/24/69	1	5587.	5587.	5587.	5587.	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: THRO0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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
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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0045

NPS Station ID: THRO0045 LAT/LON: 46.948531/-103.525921 Agency: 11NPSWRD Date Created: 09/14/96
Location: LITTLE MISSOURI MEDORA CAMPGROUND #9 FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): THRO_SW18
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2283 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHWEST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THIS SITE IS A DISHTANK PLACED NEAR THE END OF AN INTERMITTENT STREAM THAT ENDS NORTHEAST OF THE SCENIC LOOP DRIVE TURNOFF TO COTTONWOOD CAMPGROUND. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2605.5	2605.5	3670.	1541.	2266320.5	1505.43	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.35	8.35	8.4	8.3	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.347	8.347	8.4	8.3	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	393.	393.	465.	321.	10368.	101.823	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	474.5	474.5	557.	392.	13612.5	116.673	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	1.	1.	1.7	0.3	0.98	0.99	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	329.	329.	529.	129.	80000.	282.843	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	66.8	66.8	104.	29.6	2767.68	52.609	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	39.35	39.35	65.3	13.4	1346.805	36.699	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	536.	536.	788.	284.	127008.	356.382	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	12.85	12.85	14.9	10.8	8.405	2.899	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	79.5	79.5	83.	76.	24.5	4.95	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	10.9	10.9	14.8	7.	30.42	5.515	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	18.	18.	27.	9.	162.	12.728	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	980.5	980.5	1470.	491.	479220.5	692.258	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.35	0.35	0.6	0.1	0.125	0.354	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	184.	184.	367.	1.	66978.	258.801	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1890.	1890.	2750.	1030.	1479200.	1216.224	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2.57	2.57	5.08	0.06	12.6	3.55	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	1437.5	1437.5	2800.	75.	3712812.5	1926.866	**	**	**	**

** - Less 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: THRO0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	2	1.00	2	2	1.00									

& - 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: THRO0046

NPS Station ID: THRO0046
LAT/LON: 46.919448/-103.527781
Agency: 112WRD
Date Created: / /
Location: LITTLE MISSOURI RIVER AT MEDORA, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 06336000
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110203001400.03
RF3 Mile Point: 0.53
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	60	7.	8.867	30.5	0.	82.634	9.09	0.	0.5	17.375	23.35
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/10/79-05/10/79	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	07/11/69-09/19/73	33	326.	2924.03	28000.	3.	49352250.468	7025.116	13.6	47.	1590.	12080.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	132	216.5	1812.545	22800.	1.	16729043.441	4090.115	30.	99.	1450.	5406.
00080	COLOR (PLATINUM-COBALT UNITS)	08/23/74-08/23/74	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	81	1590.	1540.667	4200.	307.	546491.125	739.25	522.4	950.	2065.	2498.
00300	OXYGEN, DISSOLVED MG/L	05/10/79-05/10/79	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/10/79-05/10/79	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/11/49-05/10/79	35	7.7	7.749	8.5	6.9	0.147	0.383	7.32	7.6	8.02	8.34
00400	CONVERTED PH (STANDARD UNITS)	10/11/49-05/10/79	35	7.7	7.592	8.5	6.9	0.173	0.416	7.32	7.6	8.02	8.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/49-05/10/79	35	0.02	0.026	0.126	0.003	0.001	0.025	0.005	0.01	0.025	0.049
00405	CARBON DIOXIDE (MG/L AS CO2)	07/11/69-05/10/79	10	3.2	4.02	7.5	1.7	3.902	1.975	1.74	2.85	5.55	7.47
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/69-05/10/79	10	271.	254.	400.	104.	8848.667	94.067	108.2	149.	328.	394.
00440	BICARBONATE ION (MG/L AS HCO3)	10/11/49-05/10/79	35	298.	283.114	530.	106.	14609.281	120.869	128.8	167.	395.	449.4
00445	CARBONATE ION (MG/L AS CO3)	07/11/69-05/10/79	10	0.	3.1	22.	0.	47.656	6.903	0.	0.	4.25	20.3
00600	NITROGEN, TOTAL (MG/L AS N)	05/10/79-05/10/79	1	0.61	0.61	0.61	0.61	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/10/79-05/10/79	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/79-05/10/79	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/19/72-11/01/76	4	0.23	0.285	0.45	0.23	0.012	0.11	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/79-05/10/79	1	0.61	0.61	0.61	0.61	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/10/79-05/10/79	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/23/74-08/23/74	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/10/79-05/10/79	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/19/72-11/01/76	4	0.025	0.115	0.41	0.	0.039	0.198	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/79-05/10/79	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/23/74-05/10/79	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/19/72-05/22/74	2	0.067	0.067	0.134	0.	0.009	0.095	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/10/79-05/10/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/10/79-05/10/79	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/23/74-08/23/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/11/49-05/10/79	27	220.	246.778	670.	86.	21468.179	146.52	110.8	118.	330.	441.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/11/49-05/10/79	27	6.	41.111	330.	0.	5152.795	71.783	0.	0.	57.	130.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/11/49-05/10/79	27	51.	58.222	120.	26.	781.256	27.951	28.4	34.	78.	97.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/11/49-05/10/79	27	22.	24.593	91.	5.1	396.315	19.908	7.58	8.9	41.	48.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/27/51-05/10/79	18	255.	274.222	510.	110.	14284.183	119.516	122.6	173.5	368.	501.
00931	SODIUM ADSORPTION RATIO	07/11/69-05/10/79	10	6.95	7.5	11.	4.5	6.291	2.508	4.56	5.1	9.95	11.
00932	SODIUM, PERCENT	10/11/49-05/10/79	35	69.	64.4	84.	32.	174.718	13.218	44.6	55.	73.	79.6
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/11/49-03/23/51	17	207.	193.529	442.	31.	19973.64	141.328	31.8	47.5	297.5	417.2

** - 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

Parameter Inventory for Station: THRO0046

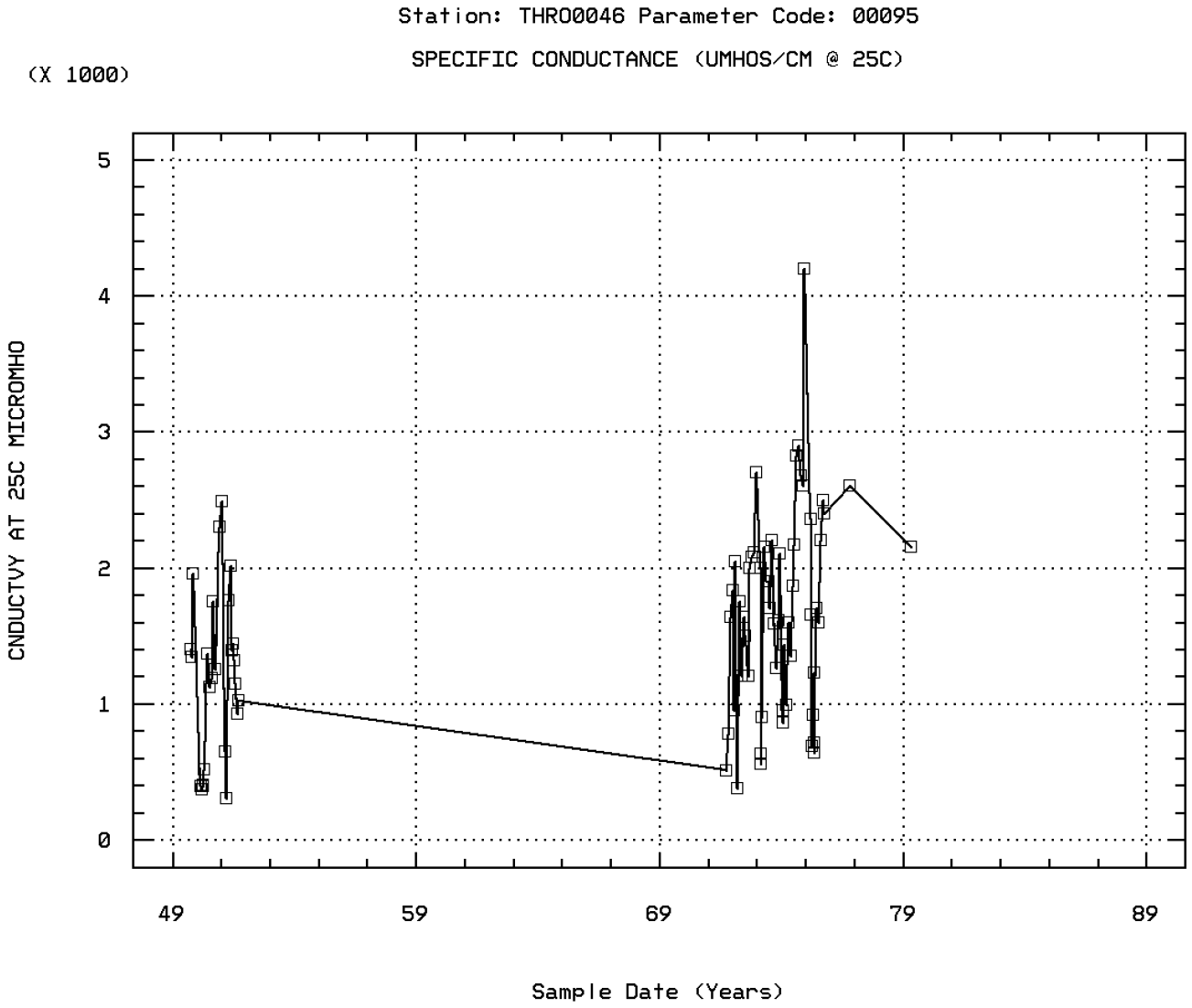
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/11/69-05/10/79	10	7.5	7.92	13.	1.8	9.075	3.012	2.17	6.7	9.925	12.7
00940	CHLORIDE,TOTAL IN WATER MG/L	10/11/49-05/10/79	35	6.	7.257	25.	0.	36.888	6.074	0.8	4.	8.	18.8
00945	SULFATE, TOTAL (MG/L AS SO4)	10/11/49-05/10/79	35	443.	489.286	1100.	57.	86781.269	294.587	85.4	279.	700.	937.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/11/49-05/10/79	27	0.4	0.396	0.8	0.1	0.038	0.195	0.18	0.2	0.5	0.64
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/11/49-05/10/79	27	12.	11.656	26.	2.4	25.595	5.059	5.96	7.1	14.	18.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/23/74-08/23/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/23/74-08/23/74	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/23/74-08/23/74	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/27/49-05/10/79	14	270.	267.143	530.	10.	17683.516	132.979	85.	195.	305.	515.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/23/74-08/23/74	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/23/74-08/23/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/23/74-08/23/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/23/74-08/23/74	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/11/49-03/23/51	17	40.	65.882	400.	20.	7988.235	89.377	20.	20.	60.	160.
01046	IRON, DISSOLVED (UG/L AS FE)	04/19/72-05/10/79	6	25.	54.167	170.	0.	4524.167	67.262	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/23/74-08/23/74	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/19/72-11/01/76	5	20.	15.	20.	5.	50.	7.071	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/23/74-08/23/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/23/74-08/23/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/23/74-08/23/74	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/23/74-08/23/74	1	960.	960.	960.	960.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/23/74-08/23/74	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/23/74-08/23/74	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/23/74-08/23/74	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/23/74-08/23/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/11/49-05/10/79	23	944.	1006.87	2040.	226.	352792.937	593.964	260.8	346.	1620.	1896.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/12/50-05/10/79	12	1529.	1383.167	1970.	486.	246738.515	496.728	518.4	978.5	1815.	1949.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/06/50-05/10/79	15	57.3	709.782	6500.	0.31	2807354.237	1675.516	0.49	2.35	842.	3524.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/11/49-05/10/79	22	1.305	1.353	2.77	0.35	0.554	0.744	0.375	0.613	1.92	2.472
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/03/49-07/31/51	9	3.	13.778	97.	0.	979.444	31.296	0.	2.	7.	97.
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/03/49-07/31/51	10	6.	18.	99.	2.	860.222	29.33	2.	3.5	19.25	91.4
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/03/49-07/31/51	10	52.	52.2	99.	2.	1127.067	33.572	2.7	27.75	79.5	99.
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	03/06/50-07/31/51	7	87.	78.429	99.	45.	468.619	21.648	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	03/06/50-07/31/51	7	88.	83.429	99.	58.	267.286	16.349	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/20/49-09/17/51	56	91.5	85.411	100.	45.	218.246	14.773	67.4	73.25	99.	99.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/03/49-07/10/51	32	86.5	84.844	99.	59.	120.781	10.99	65.7	79.25	94.75	99.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/03/49-07/10/51	32	97.	95.188	100.	71.	35.319	5.943	86.8	95.	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	03/05/50-07/10/51	26	99.5	98.346	100.	82.	13.115	3.622	95.7	98.5	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	03/05/50-05/23/50	11	100.	99.273	100.	94.	3.218	1.794	95.	99.	100.	100.
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	04/05/50-04/09/50	3	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/03/49-09/28/51	30	78.	68.	91.	25.	414.069	20.349	33.	55.75	84.	86.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/03/49-09/28/51	66	82.5	73.348	97.	28.	512.661	22.642	39.4	48.75	93.	96.
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/04/49-09/28/51	23	97.	84.217	99.	40.	426.087	20.642	46.	73.	98.	99.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/08/49-09/28/51	50	88.	78.68	100.	37.	411.651	20.289	51.1	57.5	98.	99.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/20/49-07/31/51	14	89.	84.429	99.	60.	240.264	15.5	61.	65.5	99.	99.
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	05/10/79-05/10/79	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/11/49-03/23/51	17	2.6	2.935	8.5	0.7	4.886	2.21	0.86	1.15	3.55	7.7
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/19/72-11/01/76	4	1.	1.25	2.	1.	0.25	0.5	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/10/79-05/10/79	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	05/10/79-05/10/79	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/23/74-08/23/74	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/03/49-09/28/51	76	6540.	9046.632	29100.	191.	65300730.849	8080.887	1140.	3537.5	13000.	23140.
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	06/22/78-06/22/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	06/22/78-06/22/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	06/22/78-06/22/78	1	44.	44.	44.	44.	0.	0.	**	**	**	**
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	06/22/78-06/22/78	1	61.	61.	61.	61.	0.	0.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	06/22/78-06/22/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	06/22/78-06/22/78	1	72.	72.	72.	72.	0.	0.	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	06/22/78-06/22/78	1	81.	81.	81.	81.	0.	0.	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	06/22/78-06/22/78	1	90.	90.	90.	90.	0.	0.	**	**	**	**
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	06/22/78-06/22/78	1	100.	100.	100.	100.	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: THRO0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400	PH	Other-Hi Lim.	9.	35	0	0.00	16	0	0.00	2	0	0.00	7	0	0.00	10	0	0.00
		Other-Lo Lim.	6.5	35	0	0.00	16	0	0.00	2	0	0.00	7	0	0.00	10	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	2	0	0.00				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
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.	35	0	0.00	16	0	0.00	2	0	0.00	7	0	0.00	10	0	0.00
		Drinking Water	250.	35	0	0.00	16	0	0.00	2	0	0.00	7	0	0.00	10	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	35	27	0.77	16	16	1.00	2	0	0.00	7	2	0.29	10	9	0.90
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	27	0	0.00	13	0	0.00	2	0	0.00	6	0	0.00	6	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									
01010	BERYLLIUM, DISSOLVED	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									
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									
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									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	17	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00	2	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	2	0	0.00				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



LITTLE MISSOURI RIVER AT MEDORA, ND

Annual Analysis for 1949 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	23	99.	94.348	158.	30.	2076.146	45.565	33.2	50.	130.	158.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	3	1400.	1566.667	1960.	1340.	116933.333	341.955	**	**	**	**

** - Less 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 1950 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	35	1660.	4815.971	22800.	2.	39136620.323	6255.927	145.6	245.	6860.	17700.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	11	1120.	1004.545	2300.	369.	423202.873	650.54	373.4	394.	1370.	2190.

** - Less 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 1951 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	43	234.	675.791	2980.	1.	646962.503	804.34	77.4	125.	1200.	2250.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	11	1320.	1314.364	2490.	307.	381404.455	617.58	374.4	927.	1760.	2394.

** - Less 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 THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	3	1.	4.	11.	0.	37.	6.083	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	3	780.	976.667	1640.	510.	348233.333	590.113	**	**	**	**

** - Less 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 THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	17	3.5	6.941	25.	0.	74.371	8.624	0.	0.	15.75	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	13	1750.	1645.077	2700.	376.	363688.41	603.066	605.6	1200.	2065.	2464.

** - Less 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 THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	13	12.	9.769	27.	0.	89.776	9.475	0.2	0.75	17.25	25.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	3	55.	159.	395.	27.	41968.	204.861	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	13	1700.	1576.923	2200.	560.	323656.41	568.908	588.	1080.	2050.	2180.

** - Less 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 THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	13	9.	9.577	30.5	0.	117.494	10.839	0.	0.	19.75	28.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	13	127.	328.692	2550.	3.	474169.897	688.6	3.4	11.	275.5	1768.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	13	1870.	2032.308	4200.	860.	958885.897	979.227	896.	1170.	2750.	3680.

** - Less 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 THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	12	9.75	11.958	27.	1.	70.566	8.4	1.6	4.25	18.75	25.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	12	953.5	2864.083	19600.	14.	29992209.538	5476.514	19.4	74.5	3197.5	15136.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	12	1625.	1550.	2500.	640.	501018.182	707.826	655.	762.5	2320.	2470.

** - Less 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 THRO0046

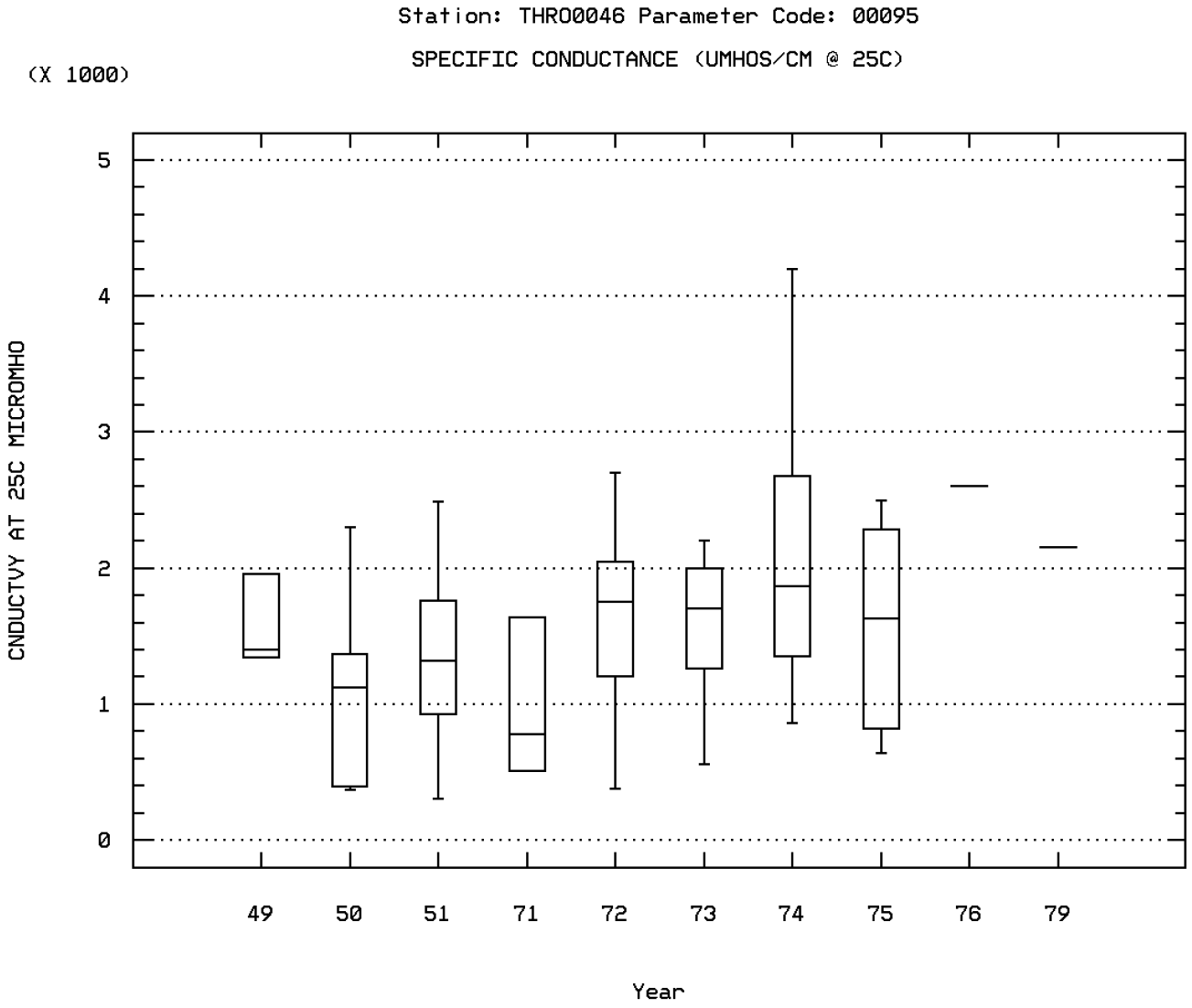
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	1	2600.	2600.	2600.	2600.	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 1979 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	1	2150.	2150.	2150.	2150.	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



LITTLE MISSOURI RIVER AT MEDORA, ND

Seasonal Analysis for Season #1: 8/01 to 2/14 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	28	0.75	7.071	27.	0.	74.754	8.646	0.	0.	13.125	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	56	101.	236.089	2550.	1.	225226.519	474.58	11.4	33.	205.5	657.9
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	39	1830.	1834.026	4200.	510.	576009.92	758.953	927.	1200.	2400.	2700.
00400p	PH (STANDARD UNITS)	10/11/49-05/10/79	16	7.9	7.909	8.5	7.4	0.132	0.364	7.4	7.6	8.28	8.43
00400p	CONVERTED PH (STANDARD UNITS)	10/11/49-05/10/79	16	7.9	7.779	8.5	7.4	0.15	0.388	7.4	7.6	8.28	8.43
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/49-05/10/79	16	0.013	0.017	0.04	0.003	0.	0.012	0.004	0.005	0.025	0.04
00440p	BICARBONATE ION (MG/L AS HCO3)	10/11/49-05/10/79	16	339.	342.25	530.	145.	12979.267	113.927	165.3	241.	435.5	510.4
00932p	SODIUM, PERCENT	10/11/49-05/10/79	16	70.5	69.75	84.	45.	73.933	8.598	58.3	66.	73.75	82.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/11/49-05/10/79	16	8.5	10.938	25.	2.	47.929	6.923	3.4	5.25	17.	22.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/11/49-05/10/79	16	635.5	645.75	1100.	279.	76302.733	276.229	286.7	402.	903.75	1030.

** - Less 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: 2/15 to 3/19 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	10	0.75	1.	3.5	0.	1.389	1.179	0.	0.	2.	3.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	8	3520.	3478.375	6860.	126.	9304610.839	3050.346	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	9	644.	983.778	2360.	376.	508897.444	713.37	376.	477.	1495.	2360.
00400p	PH (STANDARD UNITS)	10/11/49-05/10/79	2	7.4	7.4	7.6	7.2	0.08	0.283	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/11/49-05/10/79	2	7.355	7.355	7.6	7.2	0.084	0.29	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/49-05/10/79	2	0.044	0.044	0.063	0.025	0.001	0.027	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	10/11/49-05/10/79	2	159.5	159.5	167.	152.	112.5	10.607	**	**	**	**
00932p	SODIUM, PERCENT	10/11/49-05/10/79	2	55.	55.	63.	47.	128.	11.314	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/11/49-05/10/79	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/11/49-05/10/79	2	143.	143.	176.	110.	2178.	46.669	**	**	**	**

** - Less 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: 3/20 to 4/30 - Station THRO0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	7	7.	7.	12.	3.	10.667	3.266	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	35	1820.	4545.114	22800.	94.	38222583.104	6182.442	161.2	557.	4370.	17700.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	12	805.	1041.917	2150.	307.	469944.083	685.525	325.6	394.	1725.	2033.
00400p	PH (STANDARD UNITS)	10/11/49-05/10/79	7	7.6	7.471	8.1	6.9	0.172	0.415	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/11/49-05/10/79	7	7.6	7.309	8.1	6.9	0.203	0.451	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/49-05/10/79	7	0.025	0.049	0.126	0.008	0.002	0.045	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	10/11/49-05/10/79	7	140.	197.429	402.	106.	13103.619	114.471	**	**	**	**
00932p	SODIUM, PERCENT	10/11/49-05/10/79	7	45.	47.429	70.	32.	146.619	12.109	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/11/49-05/10/79	7	2.	3.214	8.	0.	10.321	3.213	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/11/49-05/10/79	7	93.	244.571	687.	57.	73179.619	270.517	**	**	**	**

** - Less 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: 5/01 to 7/31 - Station THRO0046

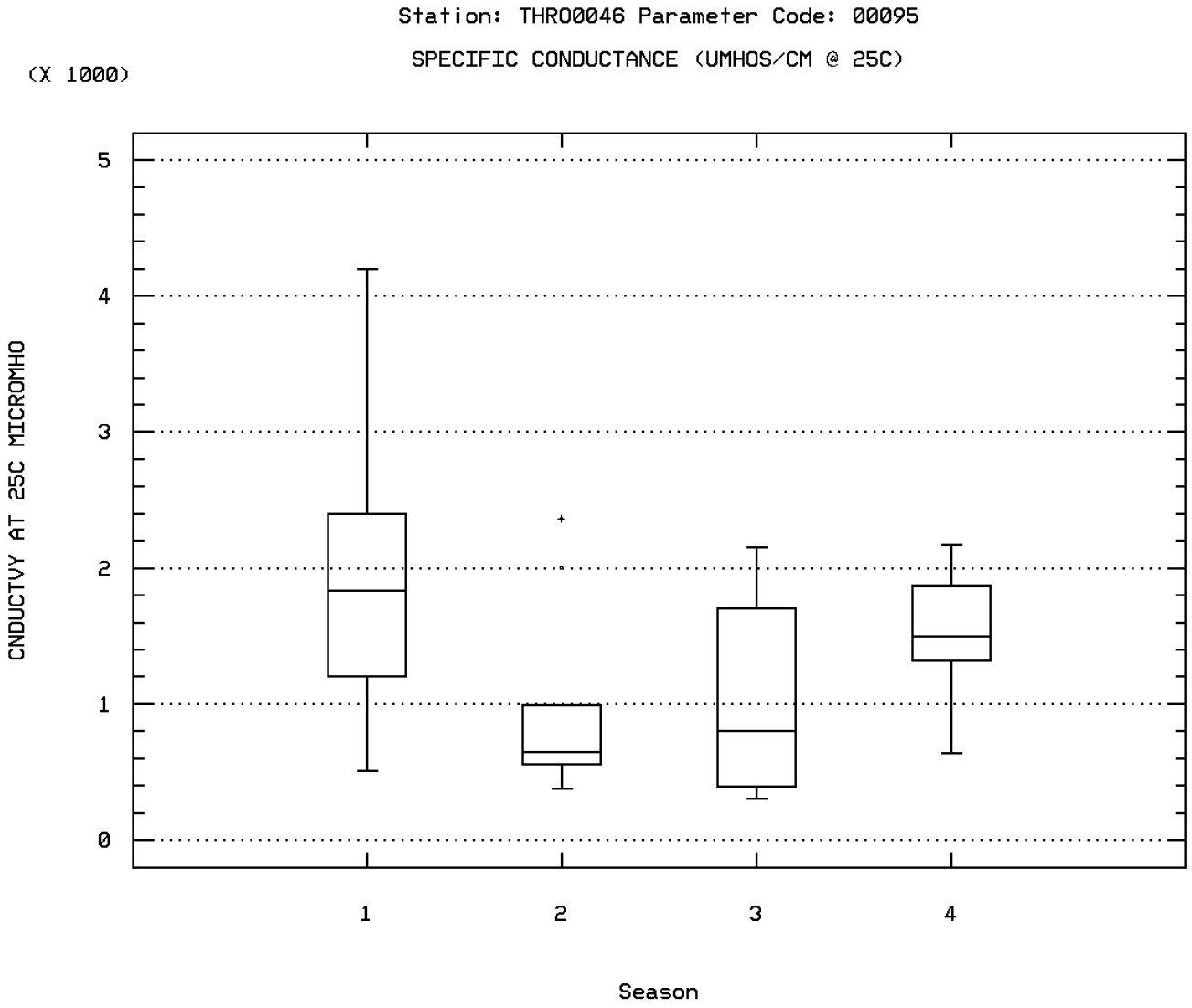
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/71-05/10/79	15	18.5	18.333	30.5	7.	50.202	7.085	8.2	10.	24.5	28.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/49-05/10/79	33	204.	1185.727	19600.	30.	11835527.205	3440.28	45.8	123.	825.5	2198.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/49-05/10/79	21	1500.	1519.524	2170.	640.	172424.762	415.241	792.	1275.	1885.	2122.
00400p	PH (STANDARD UNITS)	10/11/49-05/10/79	10	7.7	7.759	8.5	7.5	0.079	0.28	7.508	7.595	7.8	8.43
00400p	CONVERTED PH (STANDARD UNITS)	10/11/49-05/10/79	10	7.7	7.703	8.5	7.5	0.082	0.287	7.508	7.595	7.8	8.43

** - Less 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

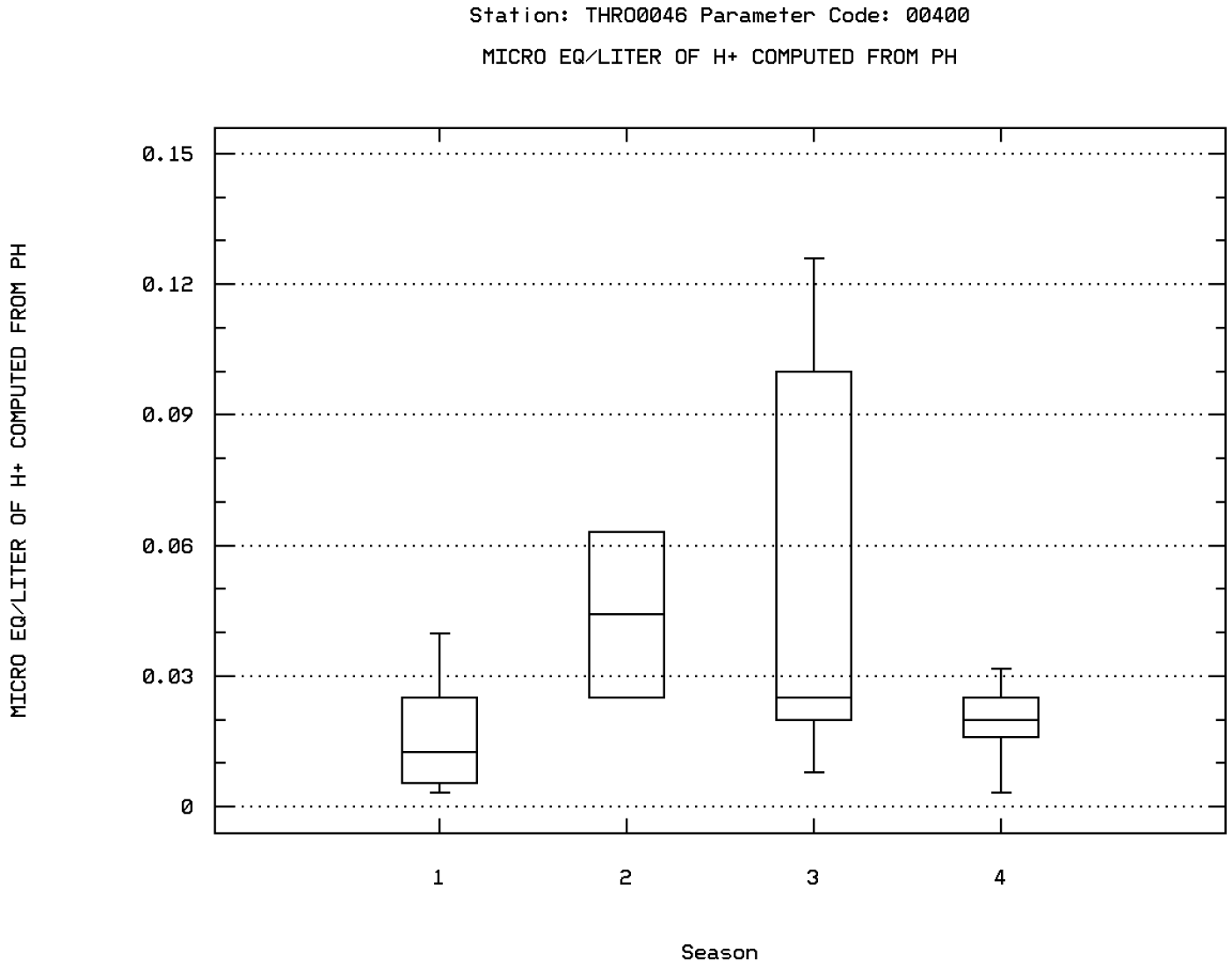
Seasonal Analysis for Season #4: 5/01 to 7/31 - Station THRO0046

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	10/11/49-05/10/79	10	0.02	0.02	0.032	0.003	0.	0.008	0.004	0.016	0.025	0.031
00440p	BICARBONATE ION (MG/L AS HCO3)	10/11/49-05/10/79	10	278.5	273.2	422.	127.	9377.956	96.84	132.1	181.75	335.5	421.
00932p	SODIUM, PERCENT	10/11/49-05/10/79	10	72.5	69.6	82.	46.	100.267	10.013	47.7	64.5	75.	81.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/11/49-05/10/79	10	5.	5.15	8.	0.5	5.336	2.31	0.75	3.75	7.25	8.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/11/49-05/10/79	10	460.5	479.5	850.	222.	34787.611	186.514	228.9	326.25	572.5	835.

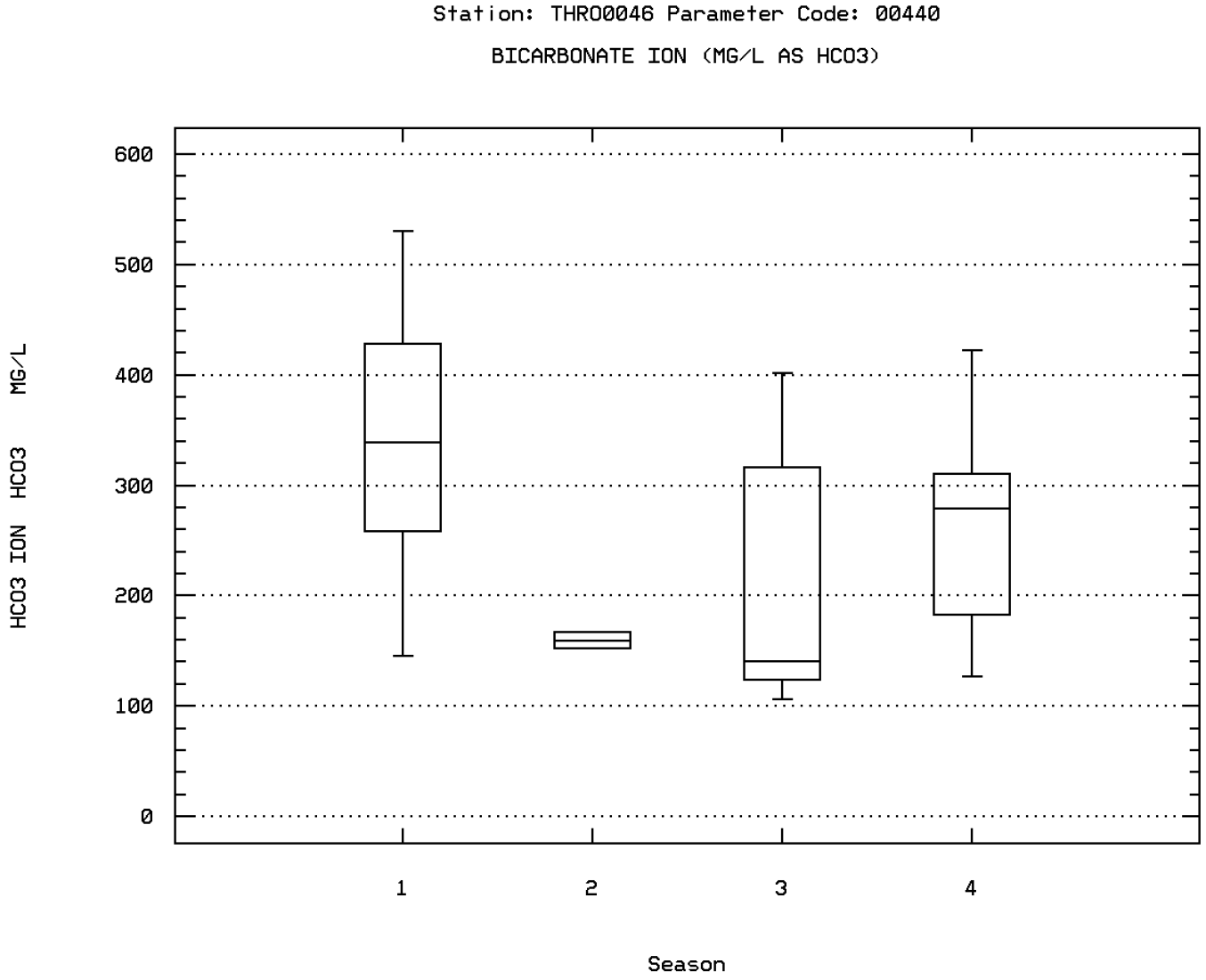
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



LITTLE MISSOURI RIVER AT MEDORA, ND



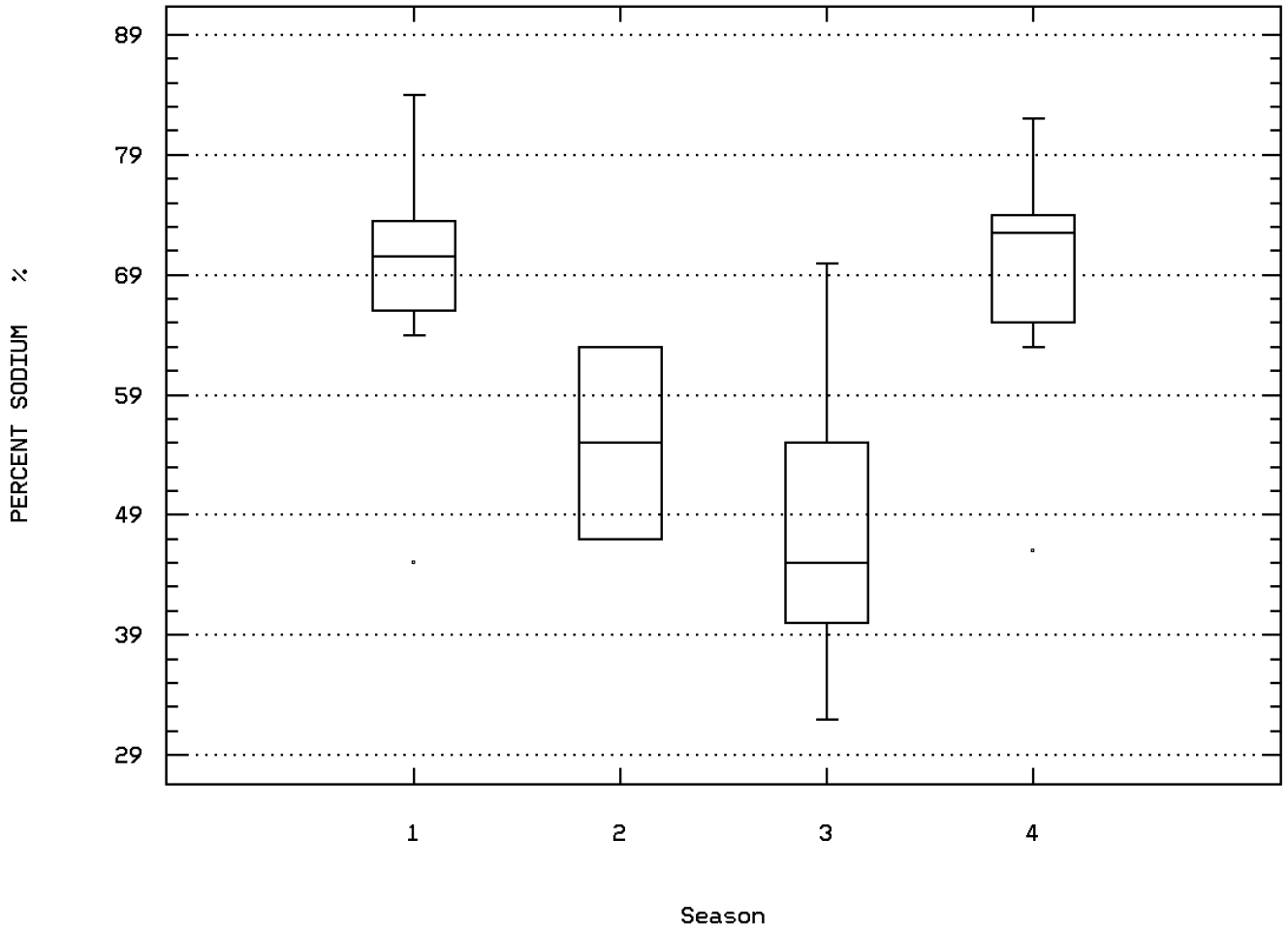
LITTLE MISSOURI RIVER AT MEDORA, ND



LITTLE MISSOURI RIVER AT MEDORA, ND

Station: THRO0046 Parameter Code: 00932

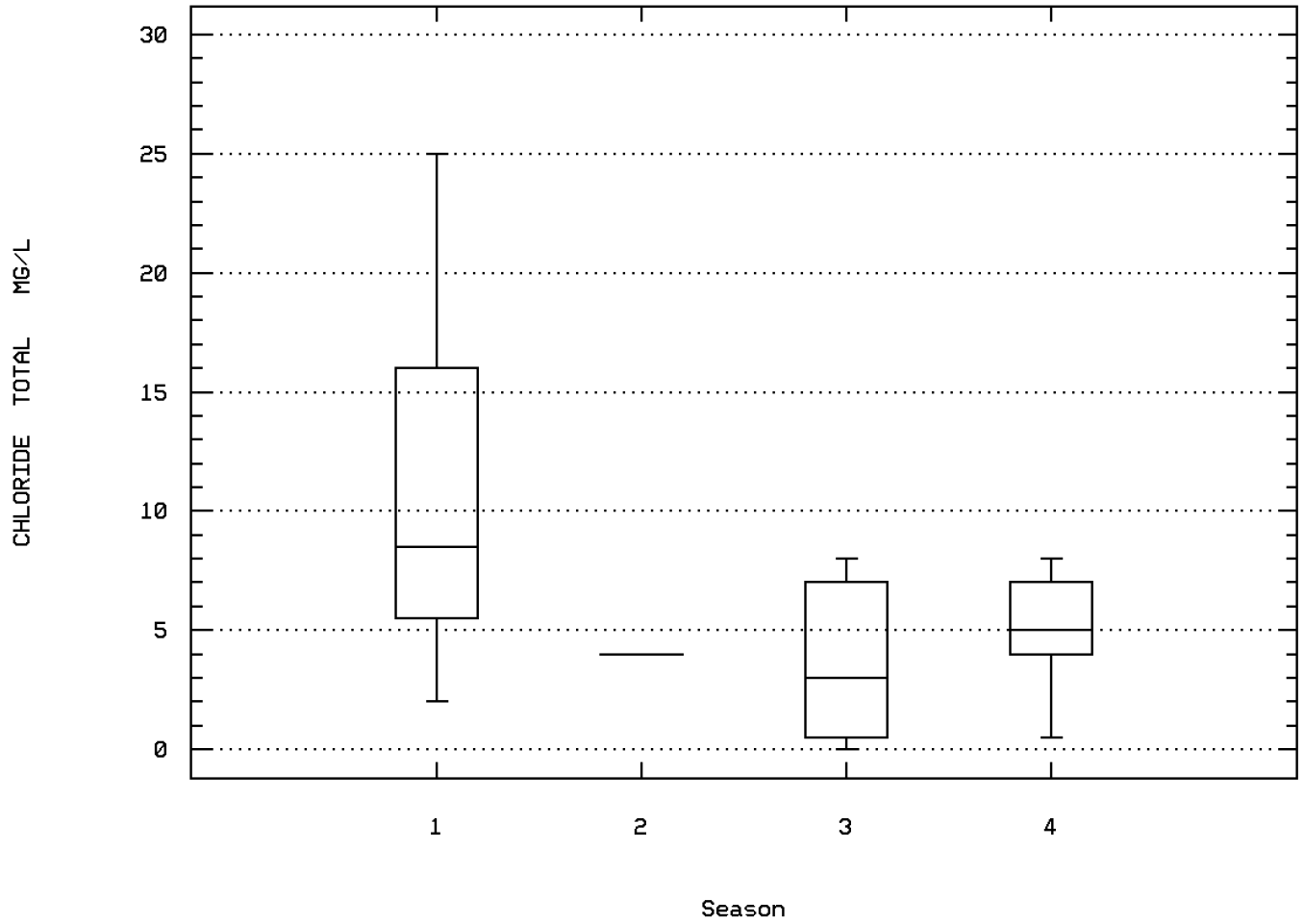
SODIUM, PERCENT



LITTLE MISSOURI RIVER AT MEDORA, ND

Station: THR00046 Parameter Code: 00940

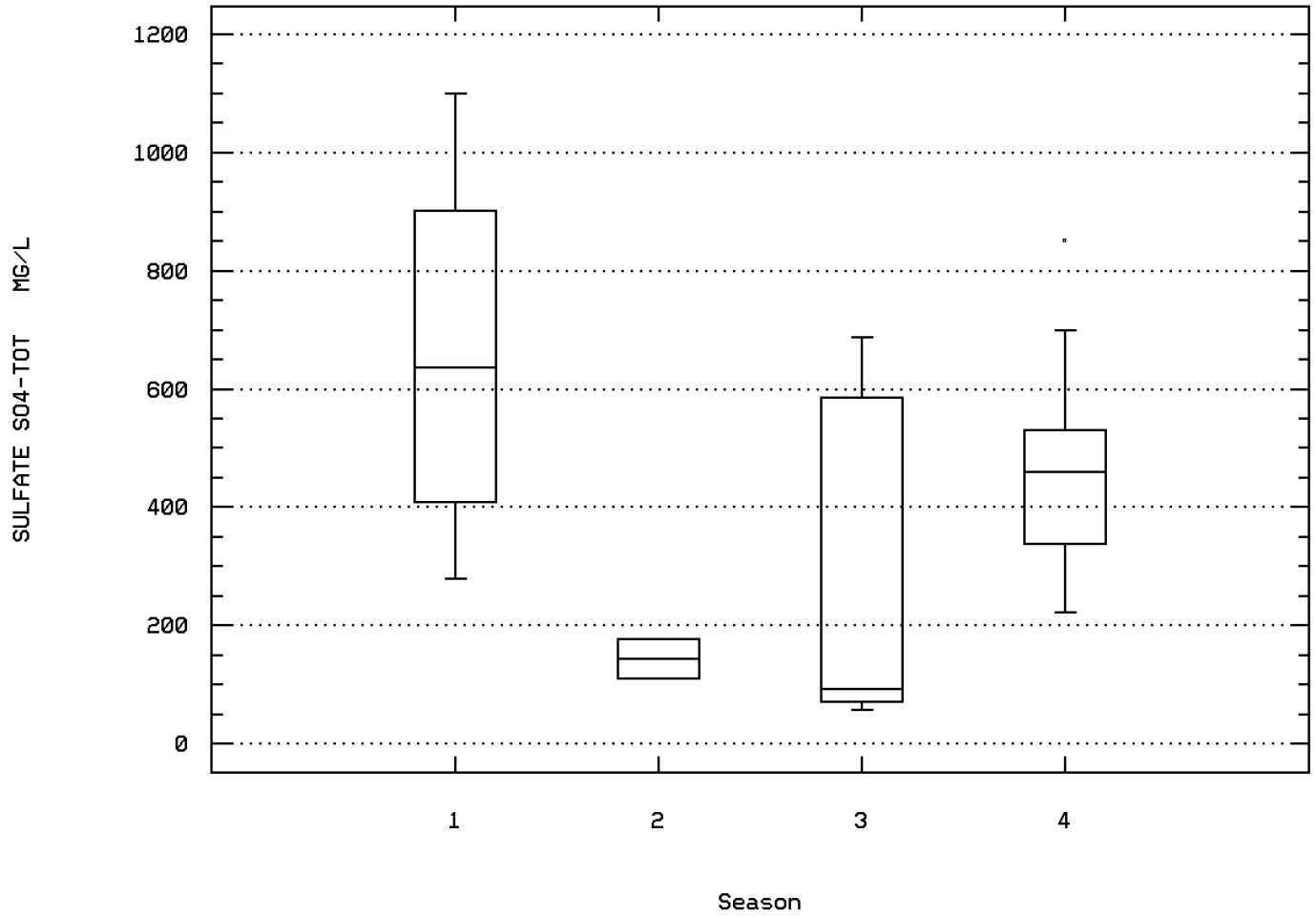
CHLORIDE,TOTAL IN WATER



LITTLE MISSOURI RIVER AT MEDORA, ND

Station: THR00046 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)



LITTLE MISSOURI RIVER AT MEDORA, ND

Station Inventory for Station: THRO0047

NPS Station ID: THRO0047
LAT/LON: 46.924448/-103.531670
Agency: 112WRD
Date Created: 04/14/78
Location: 140-102-22DBD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465528103315401
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110203001404.42
RF3 Mile Point: 4.73
Distance from RF3: 0.12
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/76-11/17/76	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/17/76-11/17/76	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/17/76-11/17/76	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/17/76-11/17/76	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/17/76-11/17/76	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/17/76-11/17/76	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/17/76-11/17/76	1	611.	611.	611.	611.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/17/76-11/17/76	1	668.	668.	668.	668.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/17/76-11/17/76	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/17/76-11/17/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/17/76-11/17/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/17/76-11/17/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/17/76-11/17/76	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/17/76-11/17/76	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/17/76-11/17/76	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/17/76-11/17/76	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/17/76-11/17/76	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/17/76-11/17/76	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/17/76-11/17/76	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/17/76-11/17/76	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/17/76-11/17/76	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/17/76-11/17/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/17/76-11/17/76	1	920.	920.	920.	920.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/17/76-11/17/76	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/17/76-11/17/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/17/76-11/17/76	1	1080.	1080.	1080.	1080.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/17/76-11/17/76	1	1080.	1080.	1080.	1080.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/17/76-11/17/76	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

EPA Water Quality Criteria Analysis for Station: THRO0047

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0048

NPS Station ID: THRO0048 LAT/LON: 46.948059/-103.533059 Agency: 112WRD Date Created: 03/17/77
Location: LITTLE MISSOURI COTTONWOOD CAMPGROUND, ND FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 465653103315900
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10110203012 RF1 Mile Point: 1.000 Distance from RF1: 7.50 On/Off RF1: ON
RF3 Index: 10110203051800.00 RF3 Mile Point: 0.09 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: THRO0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/11/76-11/11/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/11/76-11/11/76	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/11/76-11/11/76	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/11/76-11/11/76	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/11/76-11/11/76	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/76-11/11/76	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/11/76-11/11/76	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	1	399.	399.	399.	399.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/11/76-11/11/76	1	444.	444.	444.	444.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/11/76-11/11/76	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/11/76-11/11/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/11/76-11/11/76	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/11/76-11/11/76	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/11/76-11/11/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/11/76-11/11/76	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/11/76-11/11/76	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/11/76-11/11/76	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/11/76-11/11/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/11/76-11/11/76	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/11/76-11/11/76	1	9.6	9.6	9.6	9.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/11/76-11/11/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/11/76-11/11/76	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/11/76-11/11/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/11/76-11/11/76	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/11/76-11/11/76	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/11/76-11/11/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/11/76-11/11/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/11/76-11/11/76	1	1920.	1920.	1920.	1920.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/11/76-11/11/76	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/11/76-11/11/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/11/76-11/11/76	1	2.61	2.61	2.61	2.61	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/11/76-11/11/76	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

EPA Water Quality Criteria Analysis for Station: THRO0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0049

NPS Station ID: THRO0049
LAT/LON: 46.985838/-103.533892
Agency: 11NPSWRD
Date Created: 09/14/96
Location: SHEEP PASTURE SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW08
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2630
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SPRING IS WEST OF THE LITTLE MISSOURI RIVER. IT IS IN THE SOUTHEASTERN REGION OF PETRIFIED FOREST PLATEAU. IT IS NORTH OF THE FORK AT THE BEGINNING OF THE NORTHWEST LOOP OF THE PETRIFIED FOREST LOOP HIKING TRAIL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	896.5	896.5	899.	894.	12.5	3.536	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.	8.	8.6	7.4	0.72	0.849	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.674	7.674	8.6	7.4	0.932	0.965	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.021	0.021	0.04	0.003	0.001	0.026	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	361.5	361.5	369.	354.	112.5	10.607	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	424.	424.	432.	416.	128.	11.314	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	8.5	8.5	17.	0.	144.5	12.021	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	145.	145.	159.	131.	392.	19.799	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	31.65	31.65	34.6	28.7	17.405	4.172	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	16.	16.	17.7	14.3	5.78	2.404	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	151.5	151.5	161.	142.	180.5	13.435	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	5.5	5.5	5.6	5.4	0.02	0.141	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	52.25	52.25	70.	34.5	630.125	25.102	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	2.9	2.9	3.4	2.4	0.5	0.707	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	121.5	121.5	125.	118.	24.5	4.95	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	95.	95.	153.	37.	6728.	82.024	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	548.5	548.5	562.	535.	364.5	19.092	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.215	0.215	0.22	0.21	0.	0.007	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	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: THRO0049

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0050

NPS Station ID: THRO0050
LAT/LON: 46.916670/-103.534171
Agency: 21NDHDWQ
Date Created: / /
Location: LITTLE MISSOURI R - MEDORA, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 380022 /09031050
RMI-Indexes: 1021500 009490 35980
Within Park Boundary: No
RMI-Miles: 1149.40 1436.31 188.00
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI R
Elevation: 0
Water Body Id:
Minor Basin: MISSOURI-SOURIS
ECO Region:
RF1 Index: 10110203014
RF1 Mile Point: 1.370
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 10110205001207.14
RF3 Mile Point: 7.41
Distance from RF3: 0.04
On/Off RF3:
Description:
STATION LOCATED ON THE LITTLE MISSOURI RIVER ONE MILE WEST OF MEDORA, ND ON THE INTERSTATE HIGHWAY.

Parameter Inventory for Station: THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	145	10.	10.71	30.	-1.	78.047	8.834	1.	2.	18.75	23.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/23/74-10/27/77	14	58.	185.357	830.	3.	75252.555	274.322	3.5	14.5	262.5	715.
00080	COLOR (PLATINUM-COBALT UNITS)	01/23/74-11/08/76	11	70.	142.727	500.	10.	22081.818	148.6	10.	50.	240.	456.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/76-03/09/77	12	1228.	1194.333	1840.	480.	190756.242	436.757	499.2	832.	1557.	1792.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/79-10/14/92	45	1655.	1745.044	3430.	532.	498481.725	706.032	817.8	1221.	2182.	2814.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/79-10/14/92	25	9.4	10.024	14.2	6.1	5.421	2.328	6.98	8.	12.1	13.52
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	129	9.5	9.885	15.	2.9	5.608	2.368	7.1	8.4	11.85	13.4
00310	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	61	3.	3.79	12.2	1.	6.06	2.462	1.3	1.9	5.	7.12
00400p	PH (STANDARD UNITS)	03/09/77-10/14/92	58	8.1	8.05	8.81	6.9	0.127	0.357	7.6	7.8	8.3	8.5
00400p	CONVERTED PH (STANDARD UNITS)	03/09/77-10/14/92	58	8.1	7.883	8.81	6.9	0.156	0.395	7.6	7.8	8.3	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/77-10/14/92	58	0.008	0.013	0.126	0.002	0.	0.017	0.003	0.005	0.016	0.025
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	142	8.1	8.058	8.9	4.3	0.263	0.512	7.53	7.8	8.4	8.57
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	142	8.1	6.436	8.9	4.3	2.911	1.706	7.53	7.8	8.4	8.57
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	142	0.008	0.366	50.119	0.001	17.68	4.205	0.003	0.004	0.016	0.03
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-10/14/92	52	298.	298.519	532.	102.	10746.568	103.666	153.2	220.75	383.5	439.3
00440	BICARBONATE ION (MG/L AS HCO3)	04/12/78-10/14/92	52	344.5	355.481	633.	124.	14577.706	120.738	187.5	266.	438.	519.7
00445	CARBONATE ION (MG/L AS CO3)	04/12/78-10/14/92	52	0.	4.462	32.	0.	53.312	7.302	0.	0.	8.	13.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/76-10/14/92	50	0.064	0.102	0.756	0.	0.016	0.128	0.009	0.031	0.127	0.196
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/17/80-07/07/88	29	0.07	0.233	0.85	0.006	0.077	0.278	0.007	0.02	0.445	0.81
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/09/77-10/18/79	15	0.2	0.494	1.72	0.015	0.322	0.567	0.019	0.06	0.9	1.54
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/16/90-10/14/92	10	0.58	0.918	2.19	0.	0.869	0.932	0.	0.006	1.868	2.181
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/88-10/18/89	4	0.02	0.086	0.3	0.004	0.02	0.143	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	54	0.18	0.307	2.4	0.005	0.161	0.401	0.02	0.068	0.365	0.755
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/76-10/14/92	67	0.16	0.65	10.6	0.004	2.194	1.481	0.03	0.085	0.5	1.726
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/80-10/18/89	29	0.047	0.199	1.55	0.01	0.141	0.376	0.02	0.034	0.125	1.08
00669	PHOSPHORUS, TOTAL HYDROLYZABLE (MG/L AS P)	02/23/76-08/17/76	6	0.025	0.053	0.16	0.004	0.004	0.064	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/17/80-10/18/89	32	0.028	0.079	0.658	0.	0.02	0.14	0.01	0.017	0.069	0.261
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/08/76-10/24/78	7 ##	0.005	0.005	0.01	0.001	0.	0.003	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	156	291.5	296.192	689.	61.	16522.931	128.542	124.4	199.25	375.25	481.5
00916p	CALCIUM, TOTAL (MG/L AS CA)	03/09/77-10/14/92	60	65.	64.51	116.	15.1	624.614	24.992	27.4	48.125	79.3	103.9
00927p	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/77-10/14/92	60	33.85	34.358	98.5	5.6	299.6	17.309	11.05	21.	44.375	54.72
00929p	SODIUM, TOTAL (MG/L AS NA)	03/09/77-10/14/92	60	278.	295.633	653.	52.5	22462.99	149.877	115.5	189.	390.75	518.
00931	SODIUM ADSORPTION RATIO	04/08/79-10/14/92	45	7.7	8.022	14.2	0.9	11.293	3.36	3.06	5.95	10.65	12.84
00932p	SODIUM, PERCENT	06/26/68-10/14/92	155	67.	66.342	89.	14.	125.564	11.206	52.6	60.	74.	80.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/12/78-04/08/79	6	8.25	8.142	9.5	5.85	2.1	1.449	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/08/79-10/14/92	47	9.33	11.365	106.	4.8	207.695	14.412	5.4	6.7	11.2	14.12

** - 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: THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	156	10.	11.878	70.	0.	123.188	11.099	0.5	4.	15.	25.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	155	525.	605.129	2250.	1.	145421.178	381.341	203.	360.	747.	1132.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/21/76-10/24/78	11	4.	6.273	15.	2.	28.118	5.303	2.1	2.5	13.	15.
01002	ARSENIC, TOTAL (UG/L AS AS)	04/08/79-10/14/92	30	6.	47.13	667.	0.1	15588.619	124.854	0.34	2.	36.25	117.
01005	BARIUM, DISSOLVED (UG/L AS BA)	01/21/76-10/24/78	11 ##	50.	53.909	168.	23.	1563.691	39.544	23.6	26.	50.	144.4
01007	BARIUM, TOTAL (UG/L AS BA)	04/08/79-10/14/92	30	125.	248.6	780.	52.	54905.559	234.319	57.3	70.	400.	686.9
01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/21/76-10/27/77	6 ##	1.	1.167	2.	1.	0.167	0.408	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/78-10/14/92	34	0.65	1.605	22.	0.	14.427	3.798	0.	0.1	2.	2.5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/76-10/27/77	7 ##	1.	2.143	9.	1.	9.143	3.024	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/78-10/14/92	34	10.	48.862	480.	0.	9597.716	97.968	0.65	1.	49.5	185.5
01040	COPPER, DISSOLVED (UG/L AS CU)	01/21/76-10/27/77	7	7.	14.571	39.	3.	197.286	14.046	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/12/78-10/14/92	34	7.5	60.232	718.	0.9	19072.302	138.103	3.	4.	70.25	155.5
01045	IRON, TOTAL (UG/L AS FE)	07/15/74-08/06/74	2	1155.	1155.	2110.	200.	1824050.	1350.574	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	01/21/76-10/24/78	10	2.75	4.35	10.	2.	7.947	2.819	2.	2.375	6.5	9.8
01051	LEAD, TOTAL (UG/L AS PB)	04/08/79-10/14/92	30	8.5	33.133	210.	0.	2396.947	48.959	1.	3.	52.75	115.5
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/82-10/14/92	37	0.4	127.601	2400.	0.003	164471.877	405.551	0.038	0.1	99.	377.8
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/74-08/06/74	2	95.	95.	120.	70.	1250.	35.355	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/76-10/24/78	11 ##	10.	18.182	48.	1.	206.964	14.386	2.8	10.	30.	45.4
01092	ZINC, TOTAL (UG/L AS ZN)	04/08/79-10/14/92	30	65.5	174.633	1100.	6.	57590.24	239.98	10.5	21.5	254.	494.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	01/21/76-10/24/78	11	2.5	3.682	6.	1.	3.014	1.736	1.3	2.5	5.	6.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/08/79-10/14/92	30	0.85	2.337	12.	0.	12.176	3.489	0.	0.03	4.	8.9
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	95	200.	6498.095	300000.	0.	5100569	5700.443	31712.706	0.5	40.	2700.	10080.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	95	2.301	2.328	5.477	-0.301	1.933	1.39	-0.301	1.602	3.431	4.003
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			213.038								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/14/77-07/08/92	17	80.	3366.824	46000.	2.	122068390.529	11048.456	8.4	20.	1600.	12000.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/14/77-07/08/92	17	1.903	2.225	4.663	0.301	1.238	1.113	0.86	1.296	3.204	3.768
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			167.784								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/27/80-10/06/83	3	920.	1111.667	2400.	15.	1449608.333	1203.997	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/27/80-10/06/83	3	2.964	2.507	3.38	1.176	1.371	1.171	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			321.142								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	102	30.	411.652	9000.	0.5	1457265.761	1207.173	5.	7.25	200.	892.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	102	1.477	1.64	3.954	-0.301	0.831	0.912	0.699	0.852	2.301	2.949
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			43.662								
34351	ENDOSULFAN SULFATE TOTWUG/L	04/18/91-07/08/92	3 ##	0.055	0.058	0.1	0.02	0.002	0.04	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	04/18/91-07/08/92	3 ##	0.055	0.058	0.1	0.02	0.002	0.04	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	04/18/91-07/08/92	3 ##	0.055	0.058	0.1	0.02	0.002	0.04	**	**	**	**
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	04/18/91-07/08/92	3 ##	1.7	1.733	3.	0.5	1.563	1.25	**	**	**	**
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPL UG/L	04/18/91-07/08/92	3 ##	0.75	0.742	0.85	0.625	0.013	0.113	**	**	**	**
39151	MCPA-2,4D,4-CHLOR-2METHYLPHENOXY ACETIC UG/L	04/18/91-07/01/91	2 ##	1.313	1.313	1.375	1.25	0.008	0.088	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.035	0.035	0.06	0.01	0.001	0.025	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	04/18/91-07/08/92	3 ##	0.085	0.085	0.15	0.02	0.004	0.065	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.085	0.082	0.15	0.01	0.005	0.07	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.085	0.082	0.15	0.01	0.005	0.07	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.085	0.082	0.15	0.01	0.005	0.07	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.055	0.055	0.1	0.01	0.002	0.045	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.055	0.058	0.1	0.02	0.002	0.04	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.035	0.035	0.06	0.01	0.001	0.025	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.115	0.118	0.2	0.04	0.006	0.08	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.17	0.17	0.3	0.04	0.017	0.13	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.085	0.085	0.15	0.02	0.004	0.065	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	1.375	1.425	1.65	1.25	0.042	0.205	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.75	0.742	0.85	0.625	0.013	0.113	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	04/18/91-07/08/92	3 ##	0.029	0.03	0.05	0.01	0.	0.02	**	**	**	**
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	89	1185.	1248.225	3900.	240.	415568.858	644.646	500.	865.	1560.	2000.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/77-10/27/77	7	716.	983.143	1928.	544.	242845.476	492.794	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/12/78-10/14/92	52	1221.	1252.115	2460.	392.	278499.751	527.731	545.7	864.	1552.5	2150.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/09/77-10/18/79	13	0.061	0.176	0.837	0.001	0.06	0.244	0.004	0.024	0.302	0.682
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	01/23/74-07/27/81	11	0.2	0.436	2.5	0.04	0.508	0.713	0.044	0.2	0.2	2.16
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/21/76-12/14/76	11	3.	5.573	14.	1.8	20.212	4.496	1.94	2.7	8.	13.98
74010	IRON, TOTAL (MG/L AS FE)	07/14/82-10/14/92	38	1.95	17.648	194.	0.14	1667.549	40.836	0.313	0.972	17.3	55.67
77825	ALACHLOR WHOLE WATER,UG/L	04/18/91-07/08/92	3 ##	0.08	0.095	0.13	0.075	0.001	0.03	**	**	**	**
78062	NONACHLOR, TRANS, WHOLE WATER UG/L	04/18/91-07/08/92	3 ##	0.035	0.035	0.06	0.01	0.001	0.025	**	**	**	**
79190	PENDIMETHALIN, WATER, WHOLE UG/L	04/18/91-07/08/92	3 ##	0.055	0.058	0.1	0.02	0.002	0.04	**	**	**	**

** - Less 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: THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	04/18/91-07/08/92	3 ##	0.035	0.035	0.06	0.01	0.001	0.025	**	**	**	**
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	04/18/91-07/08/92	3 ##	0.3	0.3	0.5	0.1	0.04	0.2	**	**	**	**

** - 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: THRO0050

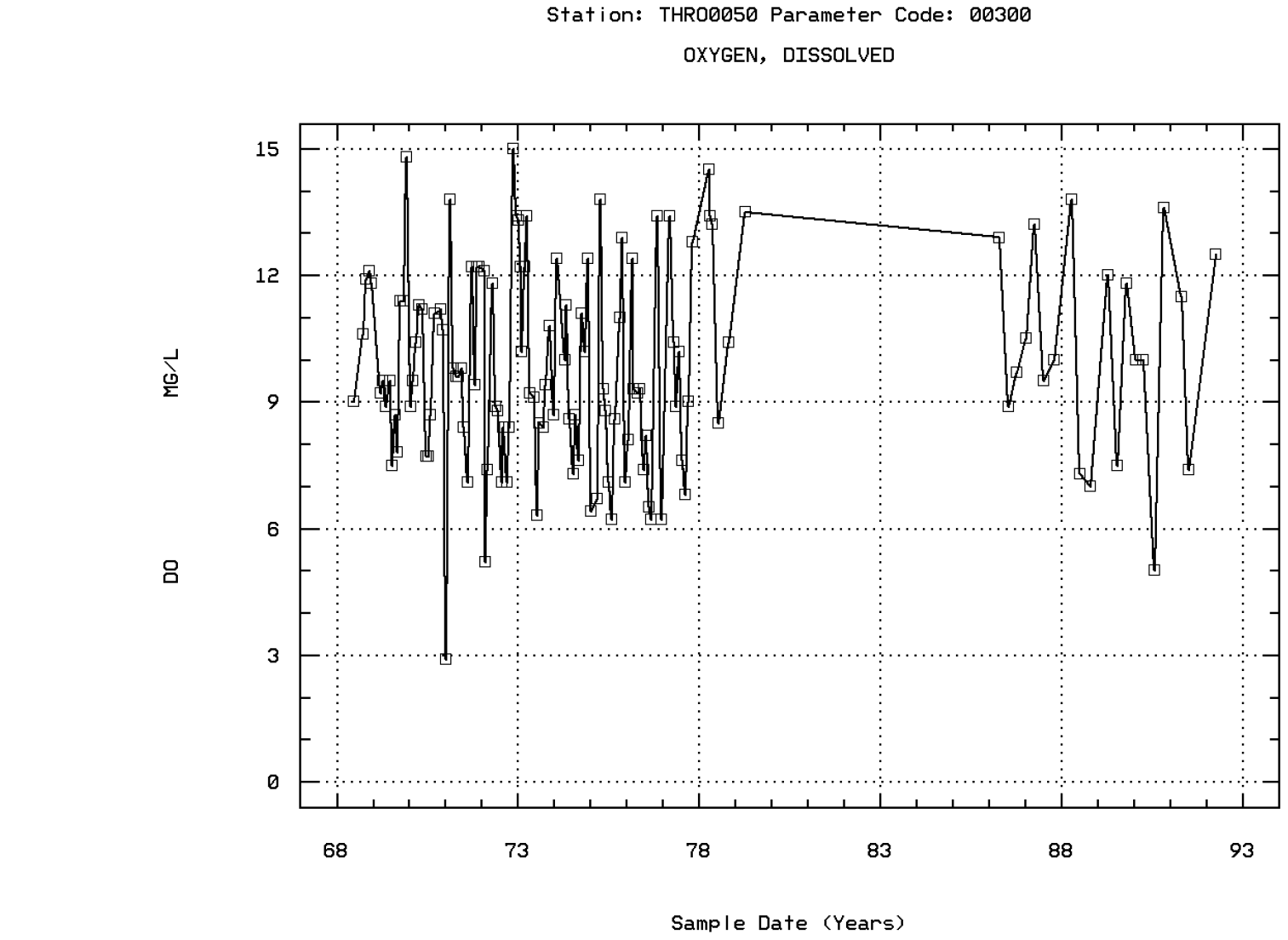
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	14	9	0.64	6	2	0.33				4	4	1.00	4	3	0.75
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	25	0	0.00	12	0	0.00				6	0	0.00	7	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	129	1	0.01	64	1	0.02	10	0	0.00	19	0	0.00	36	0	0.00
00400	PH	Other-Hi Lim.	9.	58	0	0.00	23	0	0.00	1	0	0.00	16	0	0.00	18	0	0.00
		Other-Lo Lim.	6.5	58	0	0.00	23	0	0.00	1	0	0.00	16	0	0.00	18	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	142	0	0.00	69	0	0.00	10	0	0.00	24	0	0.00	39	0	0.00
		Other-Lo Lim.	6.5	142	1	0.01	69	1	0.01	10	0	0.00	24	0	0.00	39	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	29	0	0.00	11	0	0.00				9	0	0.00	9	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	15	0	0.00	5	0	0.00	1	0	0.00	4	0	0.00	5	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00	4	0	0.00				3	0	0.00	3	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	4	0	0.00	2	0	0.00				1	0	0.00	1	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
		Drinking Water	0.2	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	156	0	0.00	77	0	0.00	11	0	0.00	25	0	0.00	43	0	0.00
		Drinking Water	250.	156	0	0.00	77	0	0.00	11	0	0.00	25	0	0.00	43	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	155	135	0.87	76	71	0.93	11	8	0.73	25	19	0.76	43	37	0.86
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
		Drinking Water	50.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	30	1	0.03	14	1	0.07				14	0	0.00	2	0	0.00
		Drinking Water	50.	30	6	0.20	14	3	0.21				14	3	0.21	2	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	30	0	0.00	14	0	0.00				14	0	0.00	2	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	6	0	0.00	3	0	0.00				1	0	0.00	2	0	0.00
		Drinking Water	5.	6	0	0.00	3	0	0.00				1	0	0.00	2	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	34	2	0.06	15	1	0.07				16	1	0.06	3	0	0.00
		Drinking Water	5.	34	2	0.06	15	1	0.07				16	1	0.06	3	0	0.00
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	34	5	0.15	15	3	0.20				16	2	0.13	3	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	7	3	0.43	3	0	0.00				2	1	0.50	2	2	1.00
		Drinking Water	1300.	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	34	10	0.29	15	4	0.27				16	5	0.31	3	1	0.33
		Drinking Water	1300.	34	0	0.00	15	0	0.00				16	0	0.00	3	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	10	0	0.00	4	0	0.00				4	0	0.00	2	0	0.00
		Drinking Water	15.	10	0	0.00	4	0	0.00				4	0	0.00	2	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	30	4	0.13	14	2	0.14				14	1	0.07	2	1	0.50
		Drinking Water	15.	30	13	0.43	14	5	0.36				14	7	0.50	2	1	0.50
01090	ZINC, DISSOLVED	Fresh Acute	120.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
		Drinking Water	5000.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	30	10	0.33	14	4	0.29				14	5	0.36	2	1	0.50
		Drinking Water	5000.	30	0	0.00	14	0	0.00				14	0	0.00	2	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
		Drinking Water	50.	11	0	0.00	4	0	0.00				4	0	0.00	3	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	30	0	0.00	14	0	0.00				14	0	0.00	2	0	0.00
		Drinking Water	50.	30	0	0.00	14	0	0.00				14	0	0.00	2	0	0.00
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	95	36	0.38	53	17	0.32	10	4	0.40	8	1	0.13	24	14	0.58
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	17	6	0.35	5	1	0.20				5	0	0.00	7	5	0.71
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	2	0.67	2	2	1.00				1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	102	26	0.25	53	7	0.13	7	2	0.29	16	3	0.19	26	14	0.54
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	3	0	0.00							1	0	0.00	2	0	0.00
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	3	0	0.00							1	0	0.00	2	0	0.00
39033	ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	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

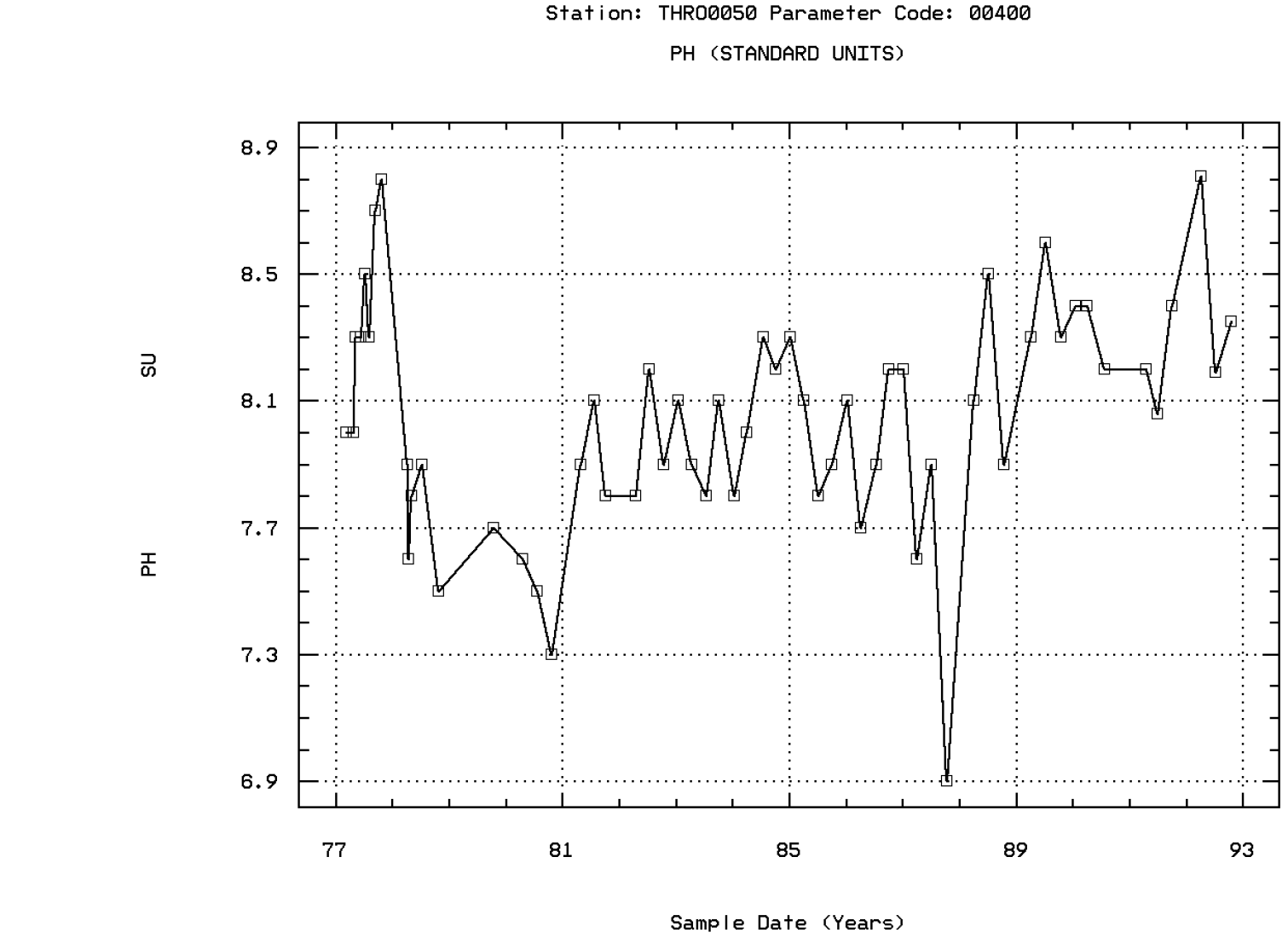
EPA Water Quality Criteria Analysis for Station: THRO0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	3	0	0.00							1	0	0.00	2	0	0.00
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	3	0	0.00							1	0	0.00	2	0	0.00
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	3	0	0.00							1	0	0.00	2	0	0.00
		Drinking Water	2.	3	0	0.00							1	0	0.00	2	0	0.00
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	3	0	0.00							1	0	0.00	2	0	0.00
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	3	0	0.00							1	0	0.00	2	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	3	0	0.00							1	0	0.00	2	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	3	0	0.00							1	0	0.00	2	0	0.00
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	3	0	0.00							1	0	0.00	2	0	0.00
		Drinking Water	2.	3	0	0.00							1	0	0.00	2	0	0.00
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00							1	0	0.00	2	0	0.00
		Drinking Water	0.4	3	0	0.00							1	0	0.00	2	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	3	0	0.00							1	0	0.00	2	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	3	0	0.00							1	0	0.00	2	0	0.00
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	3	0	0.00							1	0	0.00	2	0	0.00
		Drinking Water	0.2	3	0	0.00							1	0	0.00	2	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	11	0	0.00	5	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00

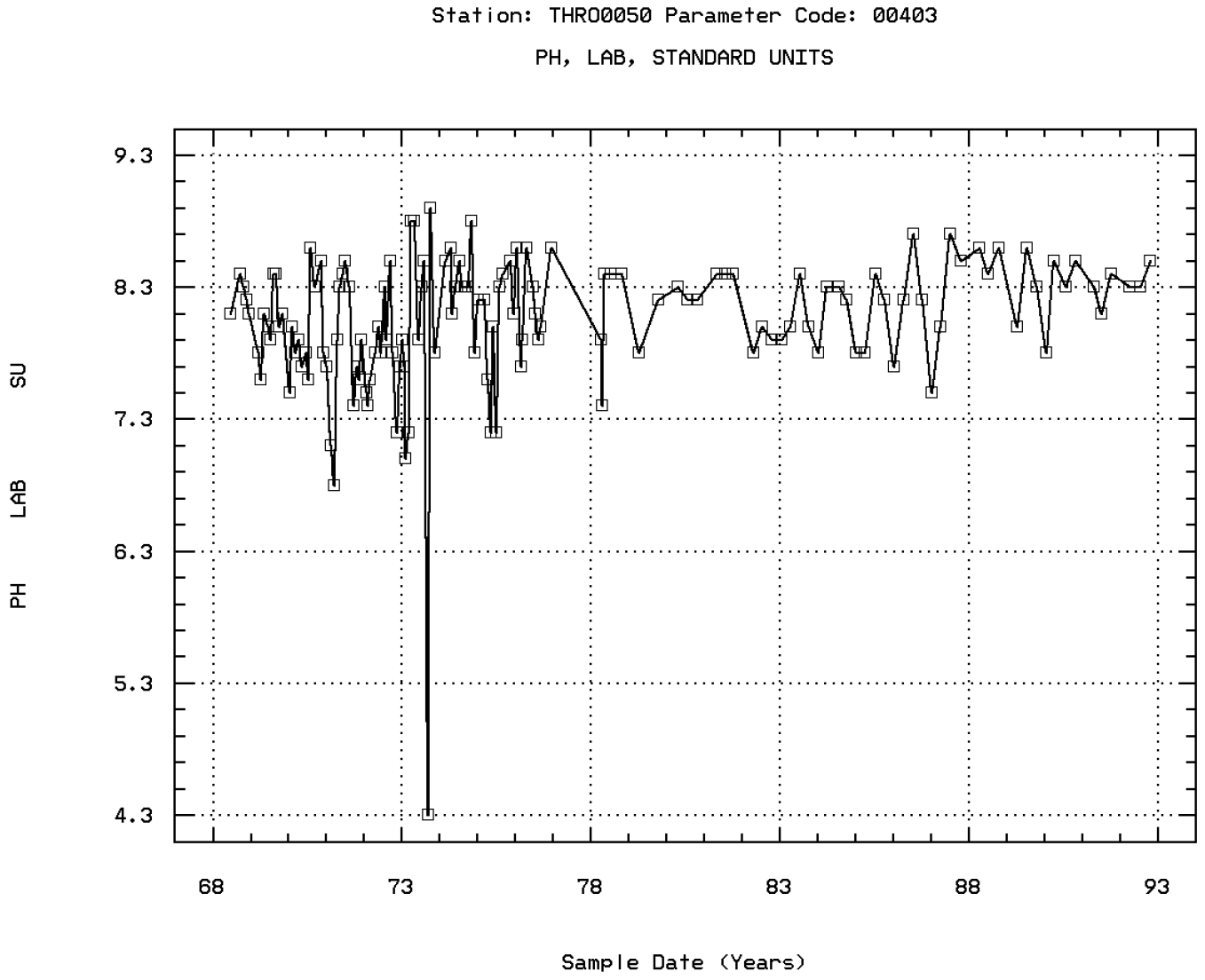
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



LITTLE MISSOURI R - MEDORA, ND



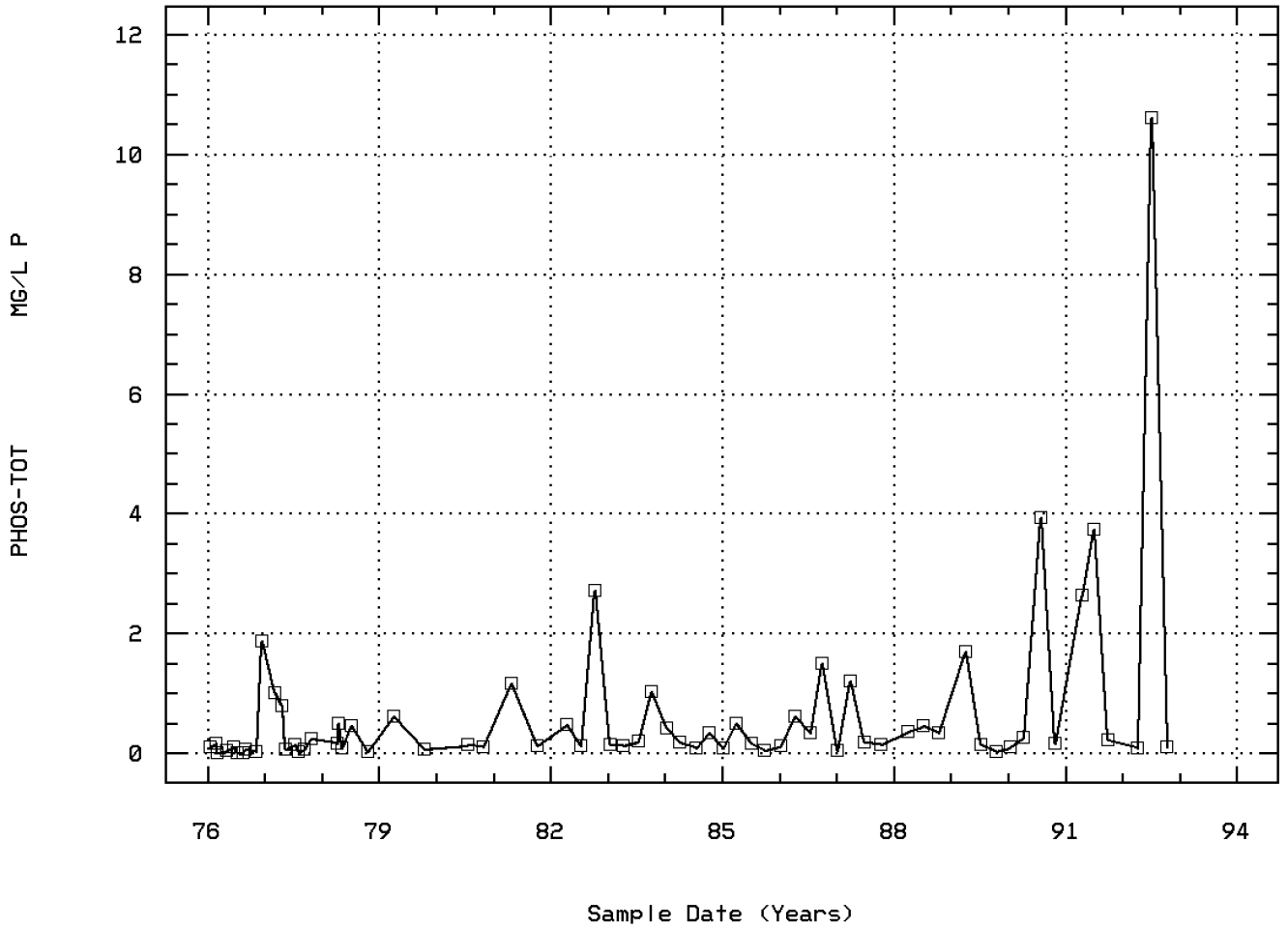
LITTLE MISSOURI R - MEDORA, ND



LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 00665

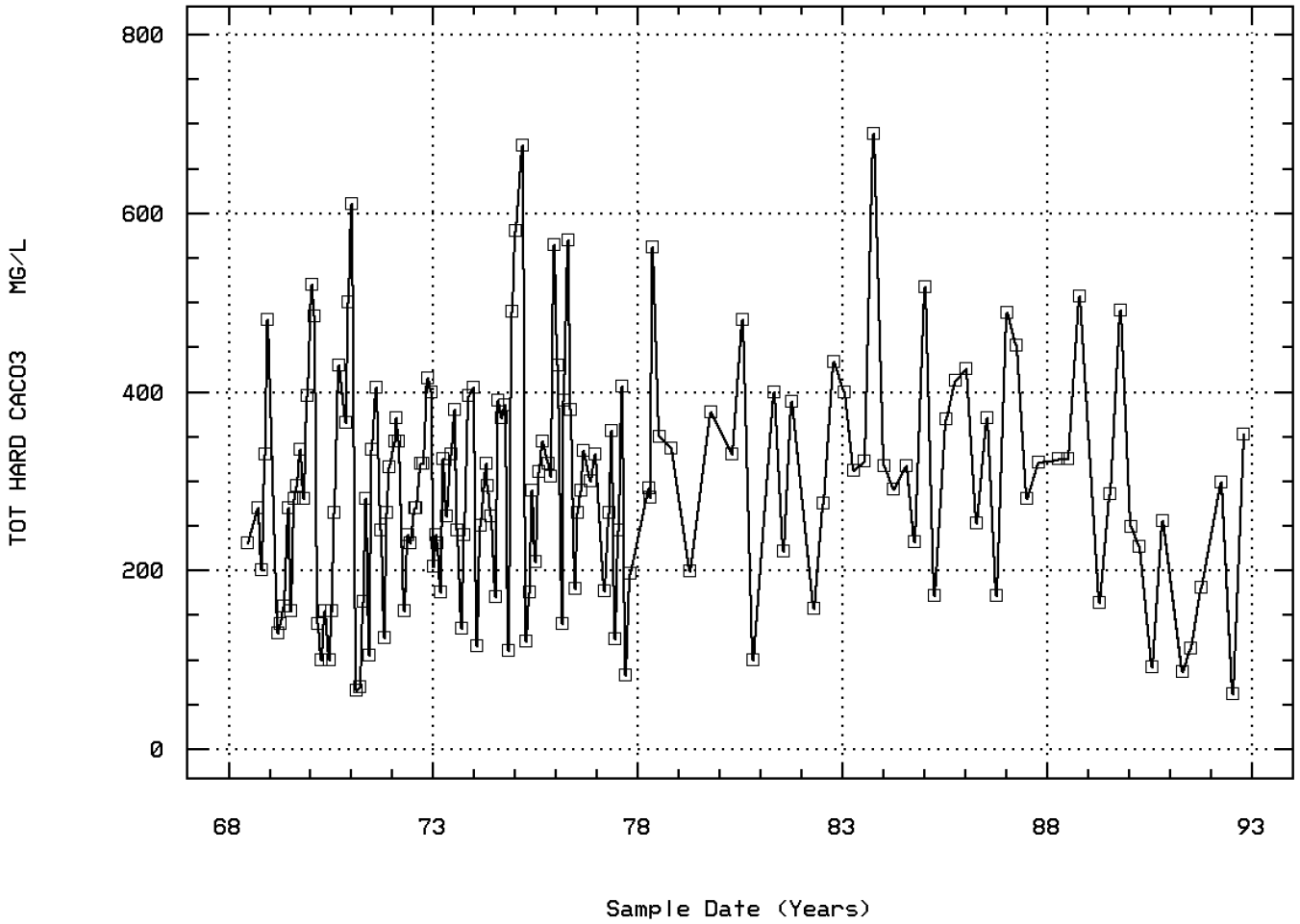
PHOSPHORUS, TOTAL (MG/L AS P)



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00900

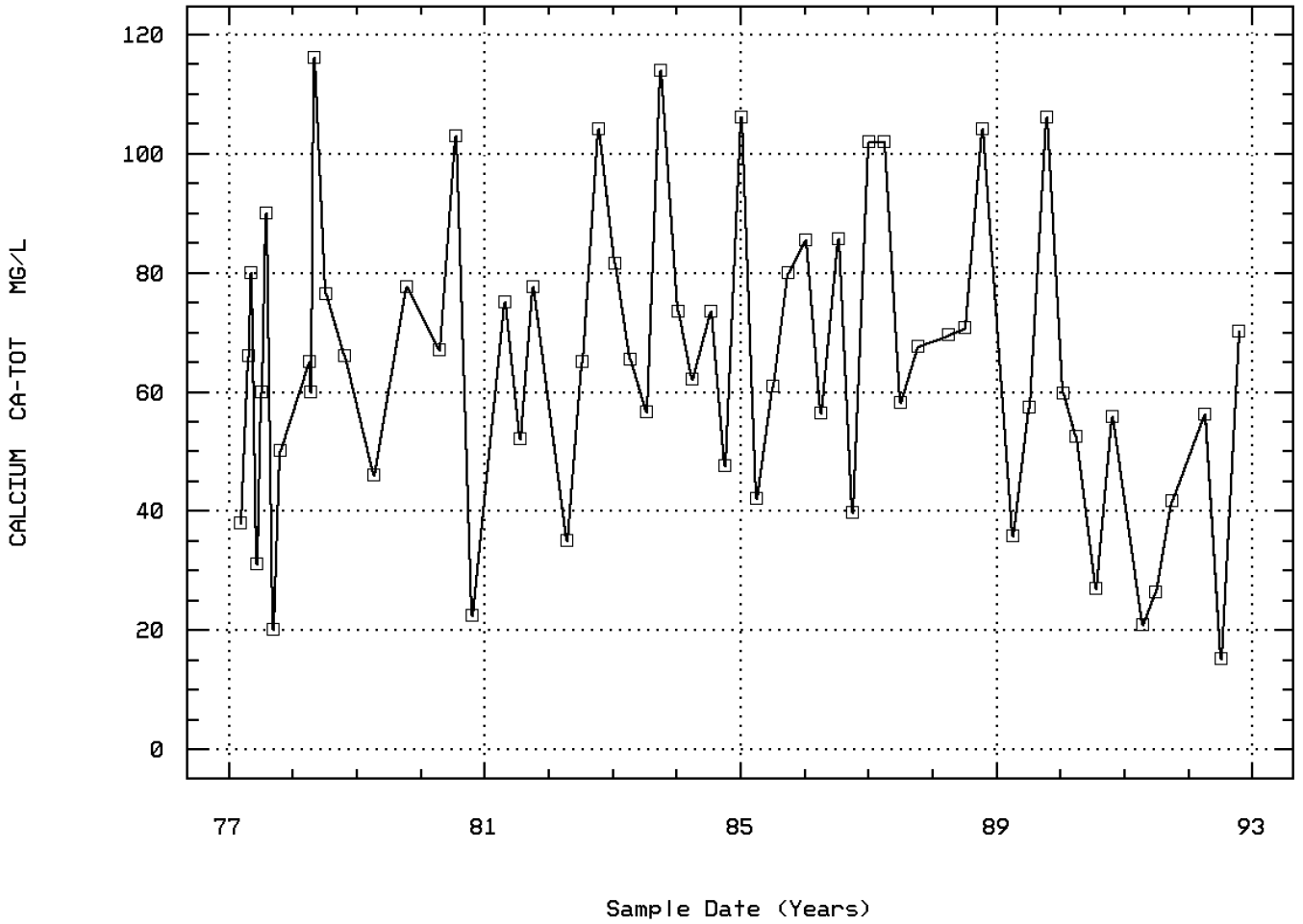
HARDNESS, TOTAL (MG/L AS CACO3)



LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 00916

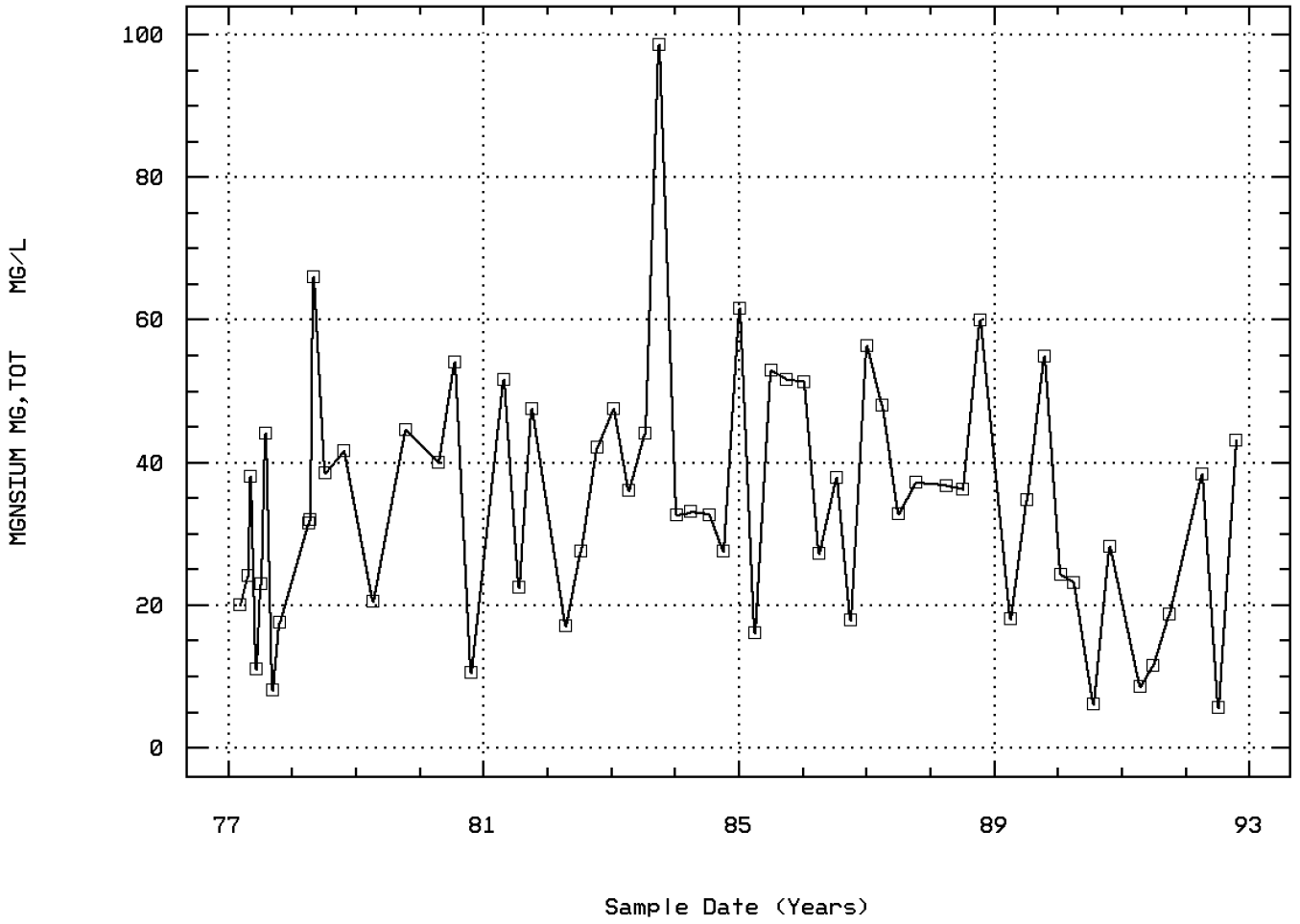
CALCIUM, TOTAL (MG/L AS CA)



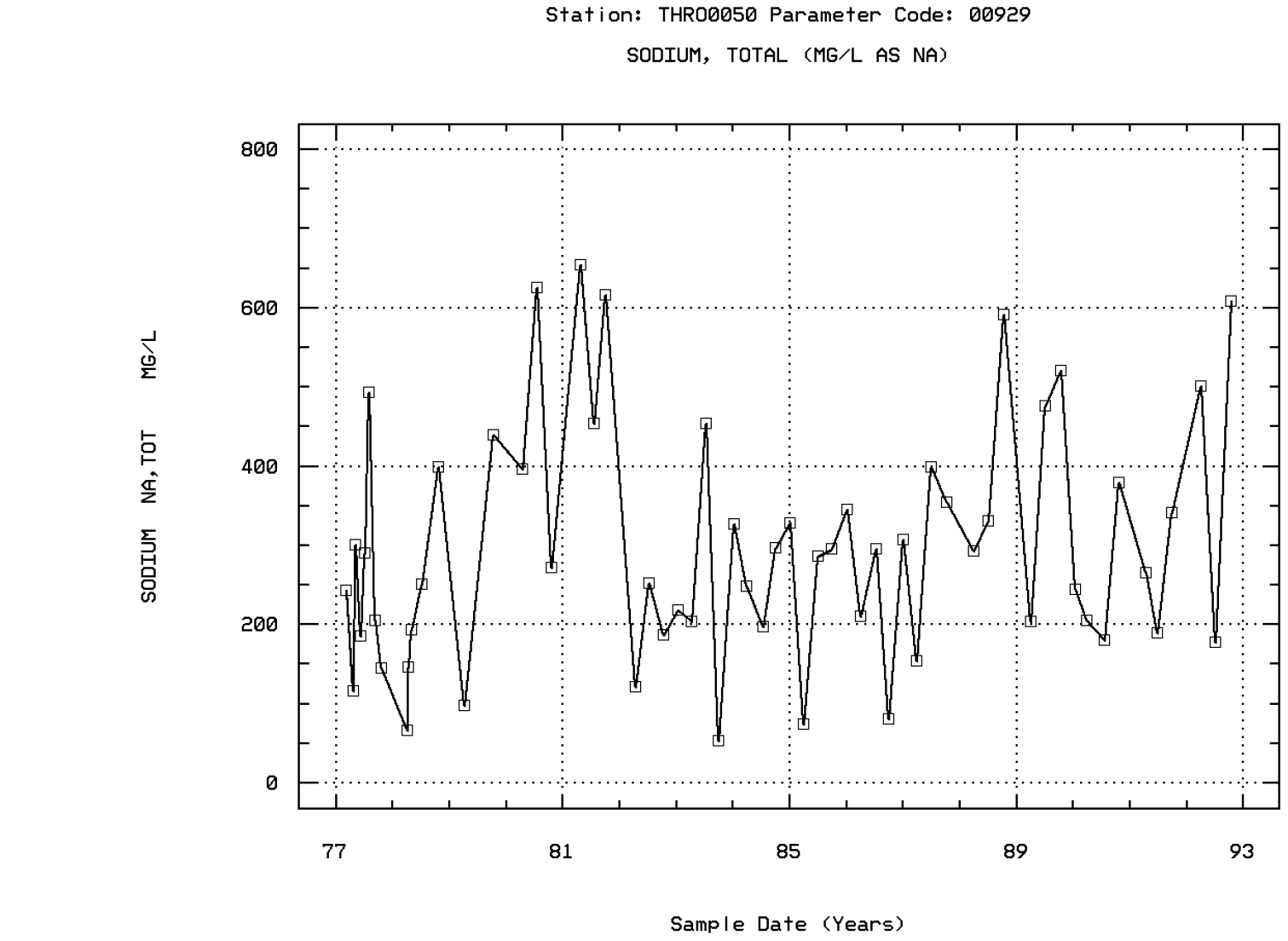
LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 00927

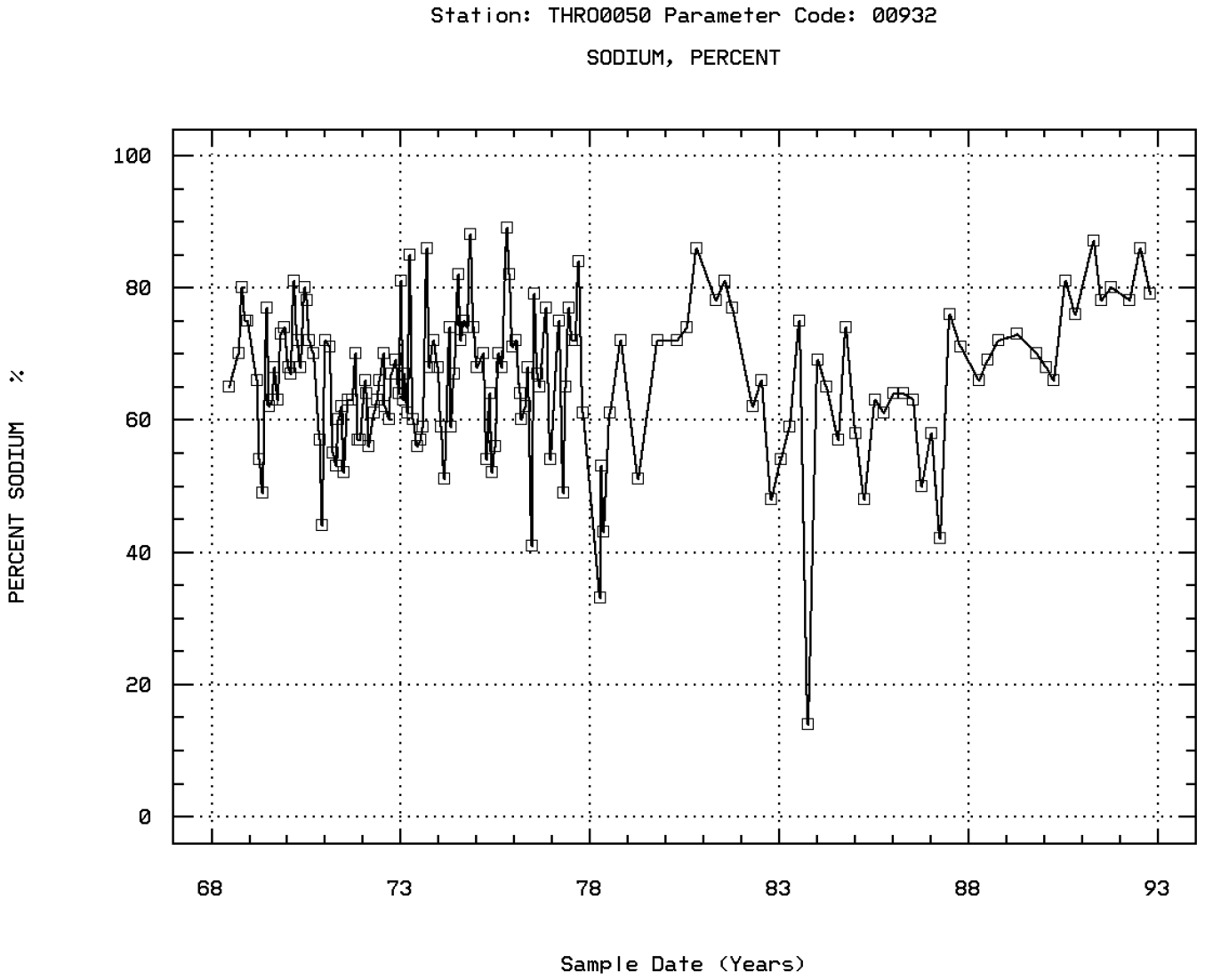
MAGNESIUM, TOTAL (MG/L AS MG)



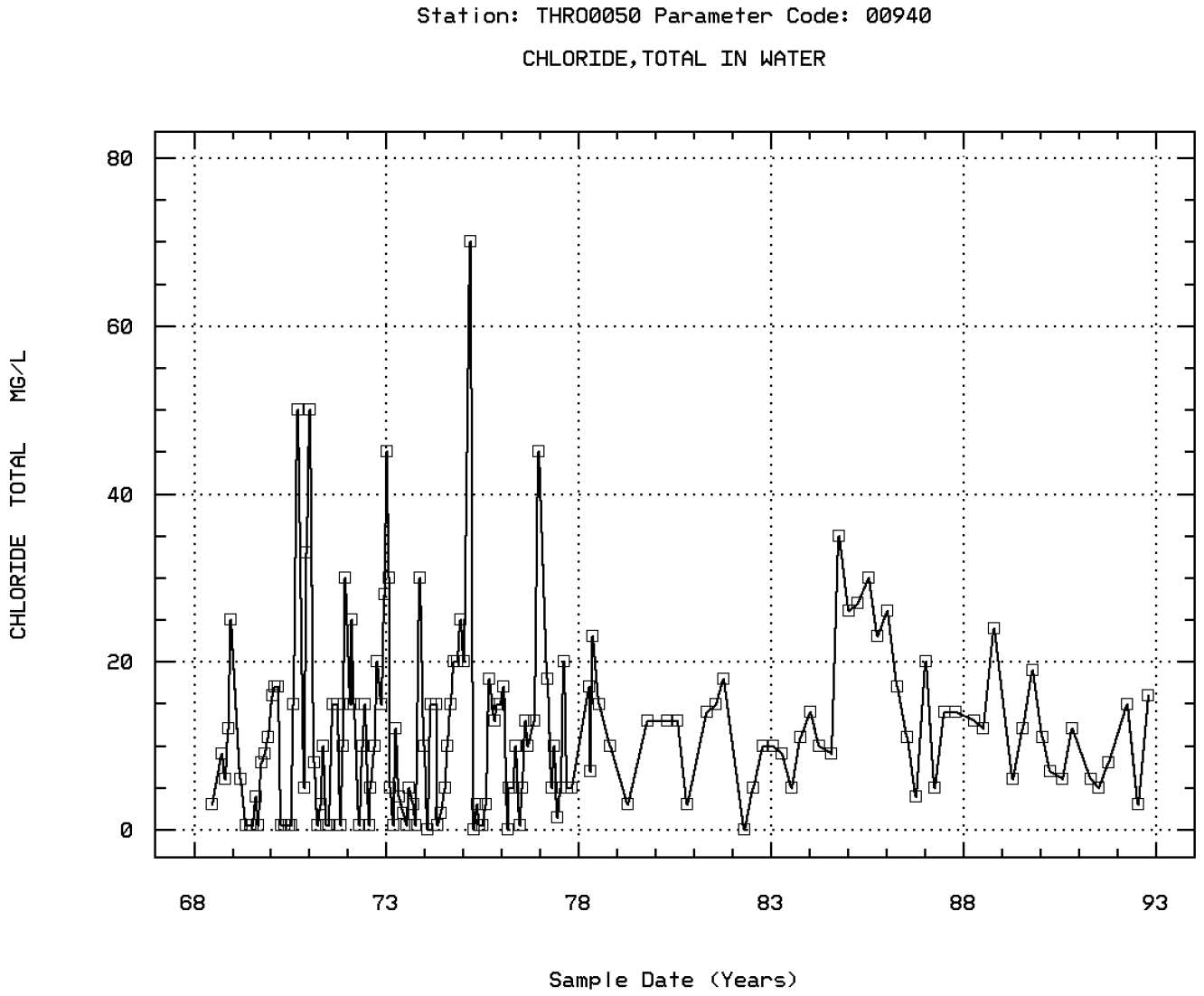
LITTLE MISSOURI R - MEDORA, ND



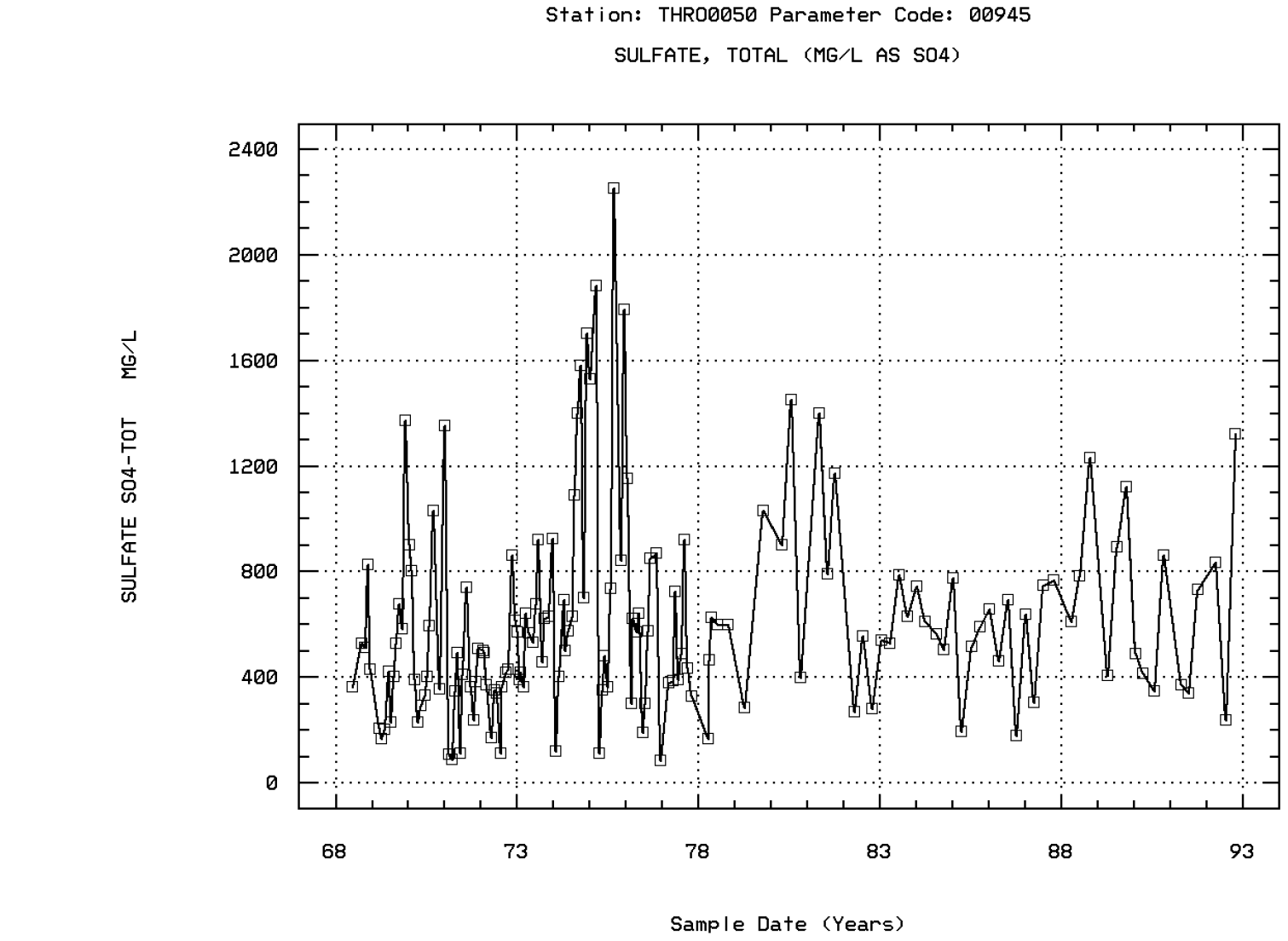
LITTLE MISSOURI R - MEDORA, ND



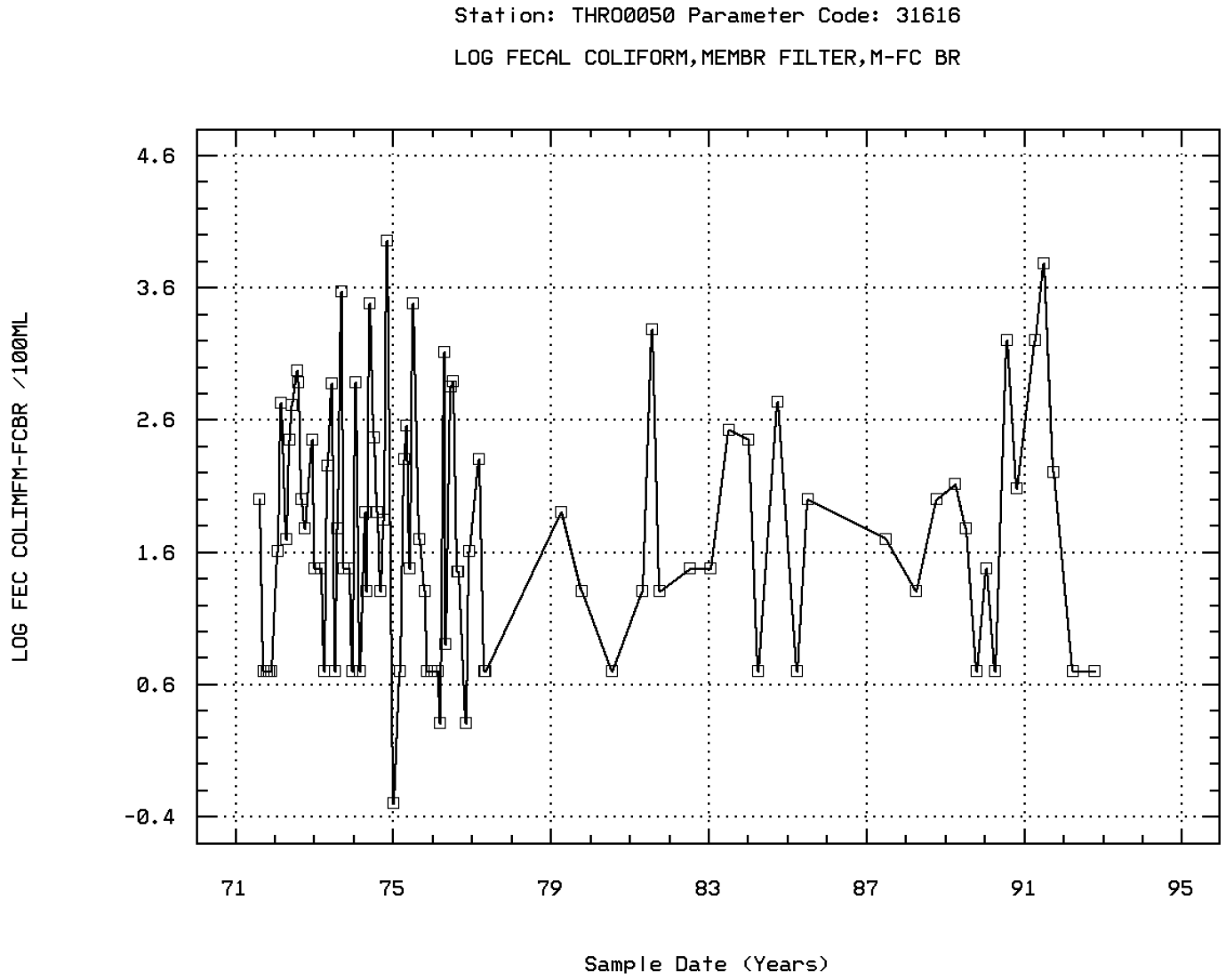
LITTLE MISSOURI R - MEDORA, ND



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Annual Analysis for 1968 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	5	2.5	6.2	15.	2.	34.325	5.859	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	5	11.8	11.08	12.1	9.	1.697	1.303	**	**	**	**
00310p	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	5	2.4	2.88	4.9	1.8	1.497	1.224	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	5	8.2	8.22	8.4	8.1	0.017	0.13	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	5	8.2	8.205	8.4	8.1	0.017	0.131	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	5	0.006	0.006	0.008	0.004	0.	0.002	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	5	270.	302.	480.	200.	12270.	110.77	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	5	75.	73.	80.	65.	32.5	5.701	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	5	9.	11.	25.	3.	72.5	8.515	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	5	510.	530.	825.	360.	31587.5	177.729	**	**	**	**
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	4	70.	112.5	300.	10.	17025.	130.48	**	**	**	**
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	4	1.801	1.77	2.477	1.	0.391	0.626	**	**	**	**
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			58.857								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	5	1340.	1352.	1755.	920.	105082.5	324.164	**	**	**	**

** - 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 1969 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	10	12.	10.1	19.	0.	55.933	7.479	0.1	2.5	18.125	18.95
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	10	9.35	9.87	14.8	7.5	4.658	2.158	7.53	8.475	11.4	14.46
00310p	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	10	1.8	3.29	11.	1.	10.265	3.204	1.03	1.3	4.85	10.55
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	9	8.	8.033	8.4	7.6	0.068	0.26	7.6	7.85	8.25	8.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	9	8.	7.966	8.4	7.6	0.073	0.27	7.6	7.85	8.25	8.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	9	0.01	0.011	0.025	0.004	0.	0.007	0.004	0.006	0.014	0.025
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	10	275.	244.	395.	130.	8415.556	91.736	131.	151.25	305.	389.
00932p	SODIUM, PERCENT	06/26/68-10/14/92	10	64.5	64.9	77.	49.	76.989	8.774	49.5	60.	73.25	76.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	10	2.5	4.1	11.	0.5	16.878	4.108	0.5	0.5	8.25	10.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	10	410.	477.	1370.	165.	129756.667	360.218	168.5	203.75	603.75	1300.5
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	10	110.	918.1	6000.	0.5	3577858.267	1891.523	0.5	7.625	1030.	5602.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	10	2.04	1.836	3.778	-0.301	1.896	1.377	-0.301	0.675	2.96	3.731
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			68.548								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	10	956.5	906.7	1440.	412.	155060.9	393.778	415.6	500.5	1277.5	1432.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	11	7.	8.455	22.	0.	74.873	8.653	0.	0.	18.	21.8
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	11	10.4	9.855	11.3	7.7	1.993	1.412	7.7	8.7	11.2	11.28
00310p	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	11	3.7	3.782	9.1	1.	5.234	2.288	1.06	1.5	4.6	8.38
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	11	7.8	7.955	8.6	7.5	0.131	0.362	7.52	7.7	8.3	8.58
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	11	7.8	7.844	8.6	7.5	0.144	0.38	7.52	7.7	8.3	8.58
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	11	0.016	0.014	0.032	0.003	0.	0.009	0.003	0.005	0.02	0.03
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	11	265.	292.273	520.	100.	29196.818	170.871	100.	140.	485.	516.
00932p	SODIUM, PERCENT	06/26/68-10/14/92	11	70.	68.818	81.	44.	113.964	10.675	46.6	67.	78.	80.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	11	15.	14.091	50.	0.5	248.991	15.779	0.5	0.5	17.	46.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	11	390.	483.727	1030.	1.	97503.818	312.256	46.8	290.	800.	1004.
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	11	125.	29338.864	300000.	0.580705	91751.205	89836.472	0.5	0.5	7000.	242000.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	11	2.097	1.854	5.477	-0.301	4.923	2.219	-0.301	-0.301	3.845	5.182
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			71.406								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	11	1080.	1346.727	2800.	544.	438201.818	661.968	579.2	850.	1760.	2640.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	12	8.	8.5	21.	0.	66.636	8.163	0.	0.	16.5	20.4
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	12	9.7	9.75	13.8	2.9	8.214	2.866	4.16	8.65	12.2	13.32
00310p	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	12	2.4	3.633	7.8	1.1	6.23	2.496	1.16	1.8	6.35	7.71
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	12	7.8	7.8	8.5	6.8	0.28	0.529	6.89	7.45	8.3	8.47
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	12	7.789	7.494	8.5	6.8	0.382	0.618	6.89	7.45	8.3	8.47
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	12	0.016	0.032	0.158	0.003	0.002	0.045	0.003	0.005	0.036	0.135
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	6	0.14	0.203	0.66	0.005	0.062	0.25	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	12	255.	248.75	610.	65.	25155.114	158.604	66.5	110.	330.	548.5
00932p	SODIUM, PERCENT	06/26/68-10/14/92	12	61.	61.25	72.	52.	47.659	6.904	52.3	55.5	68.25	71.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	12	9.	11.917	50.	0.5	219.992	14.832	0.5	0.5	15.	44.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	12	370.	426.5	1350.	85.	120885.182	347.685	91.9	141.25	501.25	1167.
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	12	250.	955.125	3200.	0.5	1443148.688	1201.311	0.5	7.875	2225.	3020.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	12	2.301	1.932	3.505	-0.301	2.311	1.52	-0.301	0.144	3.343	3.478
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			85.507								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	5 ##	5.	24.	100.	5.	1805.	42.485	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	5 ##	0.699	0.959	2.	0.699	0.339	0.582	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			9.103								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	11	880.	940.545	2980.	240.	613339.273	783.16	254.	376.	1080.	2696.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	12	9.5	9.917	22.	1.	75.538	8.691	1.	1.	18.	21.4
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	12	8.6	9.467	15.	5.2	8.653	2.942	5.77	7.175	12.025	14.52
00310p	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	12	4.	4.008	7.2	1.2	3.874	1.968	1.41	2.15	5.975	6.96
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	12	7.8	7.792	8.5	7.2	0.132	0.363	7.26	7.525	7.975	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	12	7.8	7.668	8.5	7.2	0.149	0.385	7.26	7.525	7.975	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	12	0.016	0.021	0.063	0.003	0.	0.017	0.004	0.011	0.03	0.056
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	12	0.18	0.239	0.51	0.04	0.024	0.155	0.052	0.098	0.395	0.483
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	12	320.	306.667	415.	155.	5796.97	76.138	177.5	247.5	363.75	410.5
00932p	SODIUM, PERCENT	06/26/68-10/14/92	12	64.	64.	70.	56.	15.636	3.954	57.2	61.25	66.75	69.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	12	15.	13.25	28.	0.5	75.25	8.675	0.5	6.25	18.75	27.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	12	392.5	417.333	860.	110.	38117.152	195.236	128.	341.	497.5	786.5
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	12	4250.	10512.5	52000.	50.	224086529.545	14969.52	143.	1830.	14550.	43900.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	12	3.628	3.563	4.716	1.699	0.671	0.819	1.956	3.248	4.155	4.621
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3656.888								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	12	190.	297.5	940.	10.	101347.727	318.352	10.	42.5	525.	886.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	12	2.224	2.105	2.973	1.	0.483	0.695	1.	1.626	2.72	2.945
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			127.333								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	12	1180.	1120.417	1800.	500.	111038.447	333.224	602.	866.25	1240.	1704.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	13	6.	8.769	22.	1.	67.859	8.238	1.	1.	16.5	21.2
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	13	9.4	10.131	13.4	6.3	4.549	2.133	7.14	8.6	12.2	13.36
00310p	BOD, 5 DAY, 20 DEG C MG/L	06/26/68-11/19/73	11	3.5	4.6	12.2	2.1	8.7	2.95	2.16	2.7	5.9	11.06
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	12	7.9	7.758	8.9	4.3	1.564	1.251	5.11	7.325	8.725	8.87
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	12	7.9	5.377	8.9	4.3	7.75	2.784	5.11	7.325	8.725	8.87
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	12	0.013	4.196	50.119	0.001	209.145	14.462	0.001	0.002	0.052	35.113
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	13	0.22	0.348	2.4	0.005	0.397	0.63	0.005	0.04	0.33	1.58

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	13	245.	274.231	405.	135.	7328.526	85.607	151.	217.5	355.	401.
00932p	SODIUM, PERCENT	06/26/68-10/14/92	13	67.	67.923	86.	56.	106.91	10.34	56.4	59.5	76.5	85.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	13	5.	11.346	45.	0.5	206.266	14.362	0.5	1.25	21.	39.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	13	570.	591.923	925.	360.	31639.744	177.876	372.	435.	657.5	923.
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	13	100.	1576.923	13000.	10.	12557923.077	3543.716	10.	55.	1750.	8880.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	13	2.	2.347	4.114	1.	0.929	0.964	1.	1.69	3.239	3.841
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			222.498								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	13	30.	372.692	3700.	5.	1040556.731	1020.077	5.	7.5	120.	2520.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	13	1.477	1.576	3.568	0.699	0.764	0.874	0.699	0.849	2.017	3.291
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			37.631								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	13	1240.	1229.385	1800.	740.	126861.59	356.176	796.	905.	1580.	1752.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	11	10.	11.727	30.	1.	104.218	10.209	1.	1.	21.	29.
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	10	10.1	9.96	12.4	7.3	3.46	1.86	7.33	8.35	11.575	12.4
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	10	8.3	8.35	8.8	7.8	0.076	0.276	7.83	8.25	8.525	8.78
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	10	8.3	8.266	8.8	7.8	0.084	0.29	7.83	8.25	8.525	8.78
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	10	0.005	0.005	0.016	0.002	0.	0.004	0.002	0.003	0.006	0.015
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	11	0.32	0.453	1.1	0.008	0.179	0.424	0.016	0.08	1.	1.088
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	11	295.	286.818	490.	110.	14616.364	120.898	111.	170.	385.	470.
00932p	SODIUM, PERCENT	06/26/68-10/14/92	11	74.	70.455	88.	51.	115.473	10.746	52.6	59.	75.	86.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	11	15.	11.591	25.	0.005	75.129	8.668	0.104	2.	20.	24.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	11	690.	853.182	1700.	120.	264541.364	514.336	176.	500.	1400.	1676.
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	11	1000.	8374.364	58000.	40.	311191873.455	17640.631	43.6	160.	4100.	50800.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	11	3.	3.075	4.763	1.602	0.971	0.985	1.634	2.204	3.613	4.679
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1187.29								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	11	80.	1212.273	9000.	5.	7451466.818	2729.737	6.	20.	760.	7800.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	11	1.903	2.066	3.954	0.699	1.066	1.032	0.759	1.301	2.881	3.859
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			116.434								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	11	1320.	1420.	2500.	400.	384820.	620.339	474.	950.	1960.	2400.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	11	5.	11.	29.	1.	111.8	10.574	1.	1.	21.	27.8
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	11	8.6	8.9	13.8	6.2	6.954	2.637	6.24	6.7	11.	13.62
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	10	8.15	7.97	8.5	7.2	0.225	0.474	7.2	7.5	8.325	8.49
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	10	8.147	7.712	8.5	7.2	0.298	0.546	7.2	7.5	8.325	8.49
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	10	0.007	0.019	0.063	0.003	0.001	0.024	0.003	0.005	0.035	0.063
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	11	0.11	0.262	0.85	0.03	0.094	0.306	0.032	0.04	0.66	0.812
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	11	310.	354.091	675.	120.	31584.091	177.719	131.	210.	565.	656.
00932p	SODIUM, PERCENT	06/26/68-10/14/92	11	68.	67.636	89.	52.	126.455	11.245	52.4	56.	71.	87.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	11	13.	14.364	70.	0.	399.205	19.98	0.1	0.5	18.	60.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	10	788.	1032.7	2250.	110.	579986.233	761.568	133.8	359.25	1812.5	2213.
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	11	50.	653.182	4000.	5.	1599506.364	1264.716	5.	5.	800.	3600.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	11	1.699	1.871	3.602	0.699	1.085	1.042	0.699	0.699	2.903	3.542
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			74.354								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	11	20.	335.045	3000.	0.5	793876.523	890.997	1.4	5.	200.	2472.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	11	1.301	1.419	3.477	-0.301	1.109	1.053	-0.101	0.699	2.301	3.293

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			26.234								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	11	1480.	1719.455	3900.	384.	1144739.273	1069.925	463.2	800.	2480.	3712.

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	11	12.	12.364	28.	1.	113.055	10.633	1.	1.	23.	27.
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	11	8.2	8.745	13.4	6.2	5.637	2.374	6.2	6.5	9.3	13.2
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	9	8.1	8.189	8.6	7.7	0.121	0.348	7.7	7.9	8.6	8.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	9	8.1	8.076	8.6	7.7	0.136	0.368	7.7	7.9	8.6	8.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	9	0.008	0.008	0.02	0.003	0.	0.006	0.003	0.003	0.013	0.02
00650p	PHOSPHATE, TOTAL (MG/L AS PO4)	07/07/71-01/21/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	11	330.	327.909	570.	140.	13920.491	117.985	148.	264.	390.	542.
00932p	SODIUM, PERCENT	06/26/68-10/14/92	11	65.	64.455	79.	41.	113.073	10.634	43.6	60.	72.	78.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	11	10.	11.227	45.	0.	154.068	12.412	0.1	5.	13.	39.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	11	572.	558.273	1150.	84.	103969.618	322.443	104.8	298.	850.	1094.
31501p	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	11	180.	2504.182	20000.	2.	35772182.764	5980.985	2.4	40.	1500.	16980.
31501p	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	11	2.255	2.228	4.301	0.301	1.489	1.22	0.361	1.602	3.176	4.179
31501p	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			169.188								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	11	28.	263.455	1300.	2.	202819.873	450.355	2.	5.	700.	1196.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	11	1.447	1.477	3.114	0.301	1.088	1.043	0.301	0.699	2.845	3.07
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			30.014								
70295p	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	5	1200.	1228.8	1840.	544.	215347.2	464.055	**	**	**	**

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	8	20.	17.	23.	1.	59.429	7.709	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	8	9.6	9.888	13.4	6.8	5.387	2.321	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	8	221.	231.375	406.	83.	12167.696	110.307	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	8	72.	69.375	84.	49.	117.411	10.836	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	8	5.	8.688	20.	1.5	46.067	6.787	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	8	411.	505.25	920.	328.	42881.929	207.08	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3 ##	5.	70.	200.	5.	12675.	112.583	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3 ##	0.699	1.233	2.301	0.699	0.856	0.925	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			17.1								

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Annual Analysis for 1978 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	5	10.	10.	22.	3.	57.5	7.583	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	5	13.2	12.	14.5	8.5	6.115	2.473	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	5	8.4	8.1	8.4	7.4	0.2	0.447	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	5	8.4	7.89	8.4	7.4	0.255	0.505	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	5	0.004	0.013	0.04	0.004	0.	0.016	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	5	336.	364.4	562.	282.	13022.8	114.117	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	5	53.	52.4	72.	33.	230.8	15.192	**	**	**	**

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Annual Analysis for 1978 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	5	15.	14.4	23.	7.	38.8	6.229	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	5	598.	490.	624.	165.	36883.5	192.051	**	**	**	**

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Annual Analysis for 1979 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	2	8.	8.	14.	2.	72.	8.485	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	1	13.5	13.5	13.5	13.5	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	2	8.	8.	8.2	7.8	0.08	0.283	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	2	7.955	7.955	8.2	7.8	0.084	0.29	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	2	0.011	0.011	0.016	0.006	0.	0.007	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	2	288.	288.	377.	199.	15842.	125.865	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	2	61.5	61.5	72.	51.	220.5	14.849	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	2	8.	8.	13.	3.	50.	7.071	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	2	655.5	655.5	1028.	283.	277512.5	526.795	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	2	50.	50.	80.	20.	1800.	42.426	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	2	1.602	1.602	1.903	1.301	0.181	0.426	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			40.								

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Annual Analysis for 1980 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	3	16.	15.333	25.	5.	100.333	10.017	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	8.2	8.233	8.3	8.2	0.003	0.058	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	8.2	8.231	8.3	8.2	0.003	0.058	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	330.	303.	480.	99.	36837.	191.93	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	3	74.	77.333	86.	72.	57.333	7.572	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	13.	9.667	13.	3.	33.333	5.774	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	900.	915.	1450.	395.	278425.	527.66	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	1 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.								

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Annual Analysis for 1981 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	3	10.	15.	25.	10.	75.	8.66	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	389.	336.667	399.	222.	9886.333	99.43	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	3	78.	78.667	81.	77.	4.333	2.082	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	15.	15.667	18.	14.	4.333	2.082	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	1170.	1119.333	1400.	788.	95561.333	309.13	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	20.	646.667	1900.	20.	1178133.333	1085.419	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	1.301	1.96	3.279	1.301	1.304	1.142	**	**	**	**

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Annual Analysis for 1981 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			91.258								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	2	15.5	15.5	24.	7.	144.5	12.021	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	7.9	7.9	8.	7.8	0.01	0.1	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	7.9	7.892	8.	7.8	0.01	0.1	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.013	0.013	0.016	0.01	0.	0.003	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	275.	288.333	433.	157.	19177.333	138.482	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	3	62.	58.667	66.	48.	89.333	9.452	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	5.	5.	10.	0.	25.	5.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	280.	367.333	556.	266.	26745.333	163.54	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	1	30.	30.	30.	30.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	1	1.477	1.477	1.477	1.477	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			30.								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	4	8.	8.075	8.4	7.9	0.049	0.222	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	4	8.	8.039	8.4	7.9	0.051	0.226	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	4	0.01	0.009	0.013	0.004	0.	0.004	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	4	360.5	430.5	689.	312.	31209.667	176.663	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	4	56.5	50.5	75.	14.	672.333	25.929	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	4	9.5	8.75	11.	5.	6.917	2.63	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	4	584.	620.25	786.	527.	14282.25	119.508	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	30.	123.333	330.	10.	32133.333	179.258	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	1.477	1.665	2.519	1.	0.603	0.777	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			46.261								

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Annual Analysis for 1984 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	4	8.25	8.15	8.3	7.8	0.057	0.238	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	4	8.247	8.094	8.3	7.8	0.061	0.247	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	4	0.006	0.008	0.016	0.005	0.	0.005	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	4	304.	289.25	317.	232.	1606.917	40.086	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	4	67.	66.25	74.	57.	51.583	7.182	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	4	12.	17.	35.	9.	148.667	12.193	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	4	585.5	604.	742.	503.	10314.	101.558	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	4	145.	208.75	540.	5.	65272.917	255.486	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	4	1.724	1.72	2.732	0.699	1.038	1.019	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			52.436								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	3	4.	11.	25.	4.	147.	12.124	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	4	8.	8.05	8.4	7.8	0.09	0.3	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	4	7.955	7.979	8.4	7.8	0.097	0.311	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	4	0.011	0.01	0.016	0.004	0.	0.006	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	4	390.5	367.25	517.	171.	20981.583	144.85	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	4	59.5	57.5	63.	48.	44.333	6.658	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	4	26.5	26.5	30.	23.	8.333	2.887	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	4	552.5	517.75	775.	191.	59440.917	243.805	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	4	10.	31.25	100.	5.	2106.25	45.894	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	4	1.	1.175	2.	0.699	0.323	0.568	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.953								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	4	9.5	11.	24.	1.	95.333	9.764	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	3	9.7	10.5	12.9	8.9	4.48	2.117	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	4	8.2	8.2	8.7	7.7	0.167	0.408	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	4	8.2	8.063	8.7	7.7	0.192	0.438	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	4	0.006	0.009	0.02	0.002	0.	0.008	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	4	311.5	305.	425.	172.	13006.	114.044	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	4	63.5	60.25	64.	50.	46.917	6.85	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	4	14.	14.5	26.	4.	87.	9.327	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	4	558.5	496.5	690.	179.	54983.	234.485	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.								

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Annual Analysis for 1987 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	4	6.	8.75	22.	1.	84.25	9.179	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	4	10.25	10.8	13.2	9.5	2.727	1.651	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	4	8.25	8.175	8.7	7.5	0.289	0.538	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	4	8.182	7.932	8.7	7.5	0.368	0.607	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	4	0.007	0.012	0.032	0.002	0.	0.014	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	4	386.5	385.25	488.	280.	10072.917	100.364	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	4	64.5	61.75	76.	42.	230.917	15.196	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	4	14.	13.25	20.	5.	38.25	6.185	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	4	691.5	612.75	766.	302.	46204.917	214.953	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	10.	23.333	50.	10.	533.333	23.094	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	1.	1.233	1.699	1.	0.163	0.404	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			17.1								

** - 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 box-and-whisker plot

Annual Analysis for 1988 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	3	9.	12.667	27.	2.	166.333	12.897	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	3	7.3	9.367	13.8	7.	14.763	3.842	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	8.6	8.533	8.6	8.4	0.013	0.115	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	8.6	8.523	8.6	8.4	0.014	0.116	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.003	0.003	0.004	0.003	0.	0.001	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	325.	385.667	507.	325.	11041.333	105.078	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	3	69.	69.	72.	66.	9.	3.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	13.	16.333	24.	12.	44.333	6.658	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	781.	873.	1230.	608.	103069.	321.044	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	2	60.	60.	100.	20.	3200.	56.569	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	2	1.651	1.651	2.	1.301	0.244	0.494	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			44.721								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	3	5.	11.333	24.	5.	120.333	10.97	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	3	11.8	10.433	12.	7.5	6.463	2.542	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	8.3	8.3	8.6	8.	0.09	0.3	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	8.3	8.233	8.6	8.	0.097	0.311	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.005	0.006	0.01	0.003	0.	0.004	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	286.	313.667	491.	164.	27306.333	165.246	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	2	71.5	71.5	73.	70.	4.5	2.121	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	12.	12.333	19.	6.	42.333	6.506	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	892.	805.667	1120.	405.	133396.333	365.235	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	60.	65.	130.	5.	3925.	62.65	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	1.778	1.53	2.114	0.699	0.547	0.739	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			33.912								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	4	5.5	9.	25.	-1.	148.667	12.193	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	4	10.	9.65	13.6	5.	12.49	3.534	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	4	8.4	8.275	8.5	7.8	0.109	0.33	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	4	8.389	8.168	8.5	7.8	0.125	0.353	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	4	0.004	0.007	0.016	0.003	0.	0.006	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	4	237.5	205.5	255.	92.	5881.667	76.692	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	4	72.	72.75	81.	66.	48.917	6.994	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	4	9.	9.	12.	6.	8.667	2.944	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	4	448.5	525.5	861.	344.	53391.	231.065	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	4	75.	438.75	1600.	5.	601772.917	775.74	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	4	1.778	1.865	3.204	0.699	1.116	1.057	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			73.257								

** - Less 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 THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	2	13.5	13.5	20.	7.	84.5	9.192	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	2	9.45	9.45	11.5	7.4	8.405	2.899	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	8.3	8.267	8.4	8.1	0.023	0.153	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	8.3	8.248	8.4	8.1	0.024	0.154	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.005	0.006	0.008	0.004	0.	0.002	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	113.	127.	181.	87.	2356.	48.539	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	3	80.	81.667	87.	78.	22.333	4.726	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	6.	6.333	8.	5.	2.333	1.528	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	371.	480.333	732.	338.	47774.333	218.573	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	1600.	2586.667	6000.	160.	9256533.333	3042.455	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	3	3.204	3.062	3.778	2.204	0.635	0.797	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1153.8								

** - 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

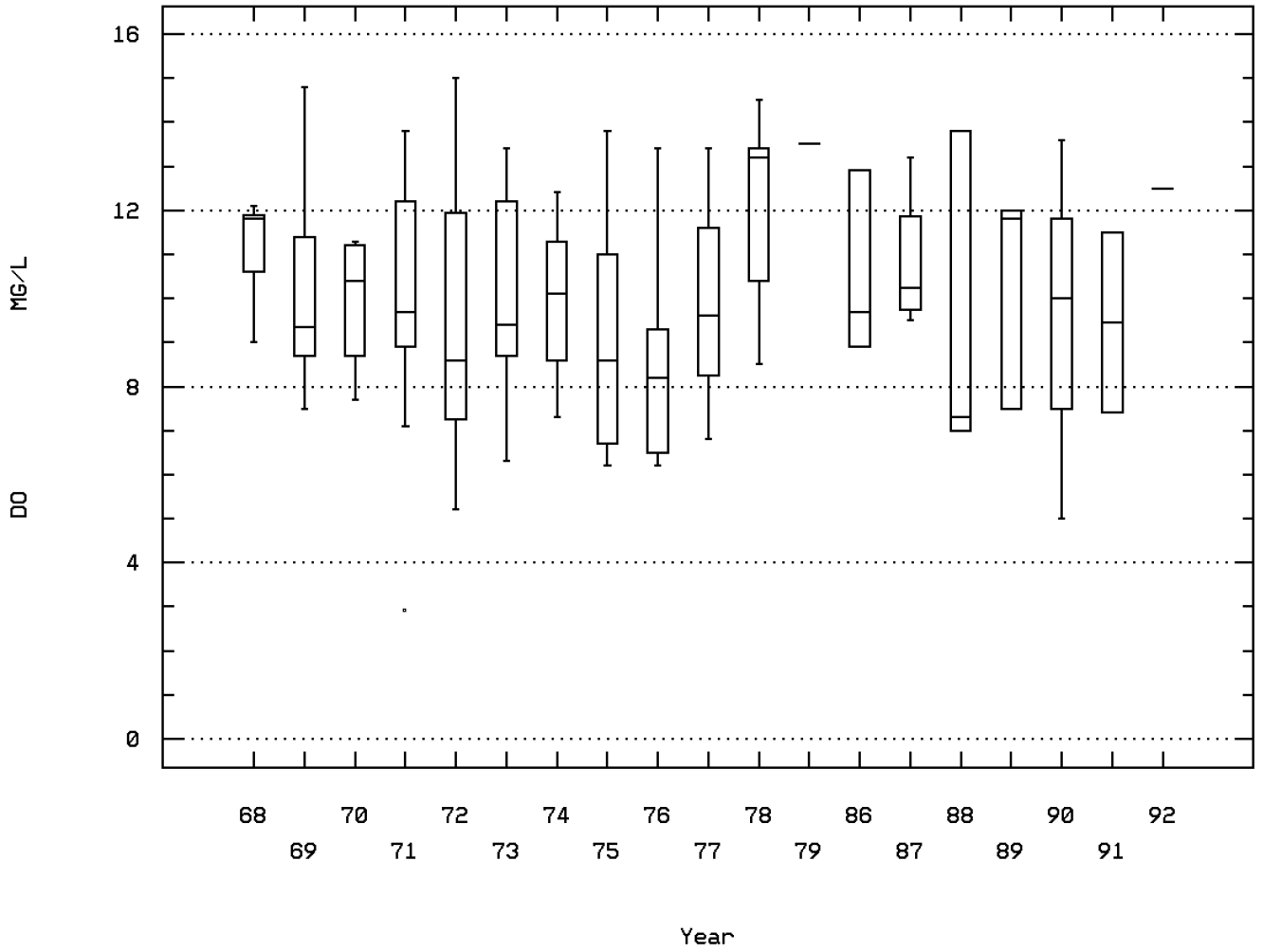
Annual Analysis for 1992 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	3	8.	12.	22.	6.	76.	8.718	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	3	8.3	8.367	8.5	8.3	0.013	0.115	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	3	8.3	8.357	8.5	8.3	0.013	0.116	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	3	0.005	0.004	0.005	0.003	0.	0.001	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	3	298.	237.	352.	61.	23961.	154.793	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	3	79.	81.	86.	78.	19.	4.359	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	3	15.	11.333	16.	3.	52.333	7.234	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	3	833.	796.	1320.	235.	295333.	543.445	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	2 ##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616p	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

Station: THRO0050 Parameter Code: 00300

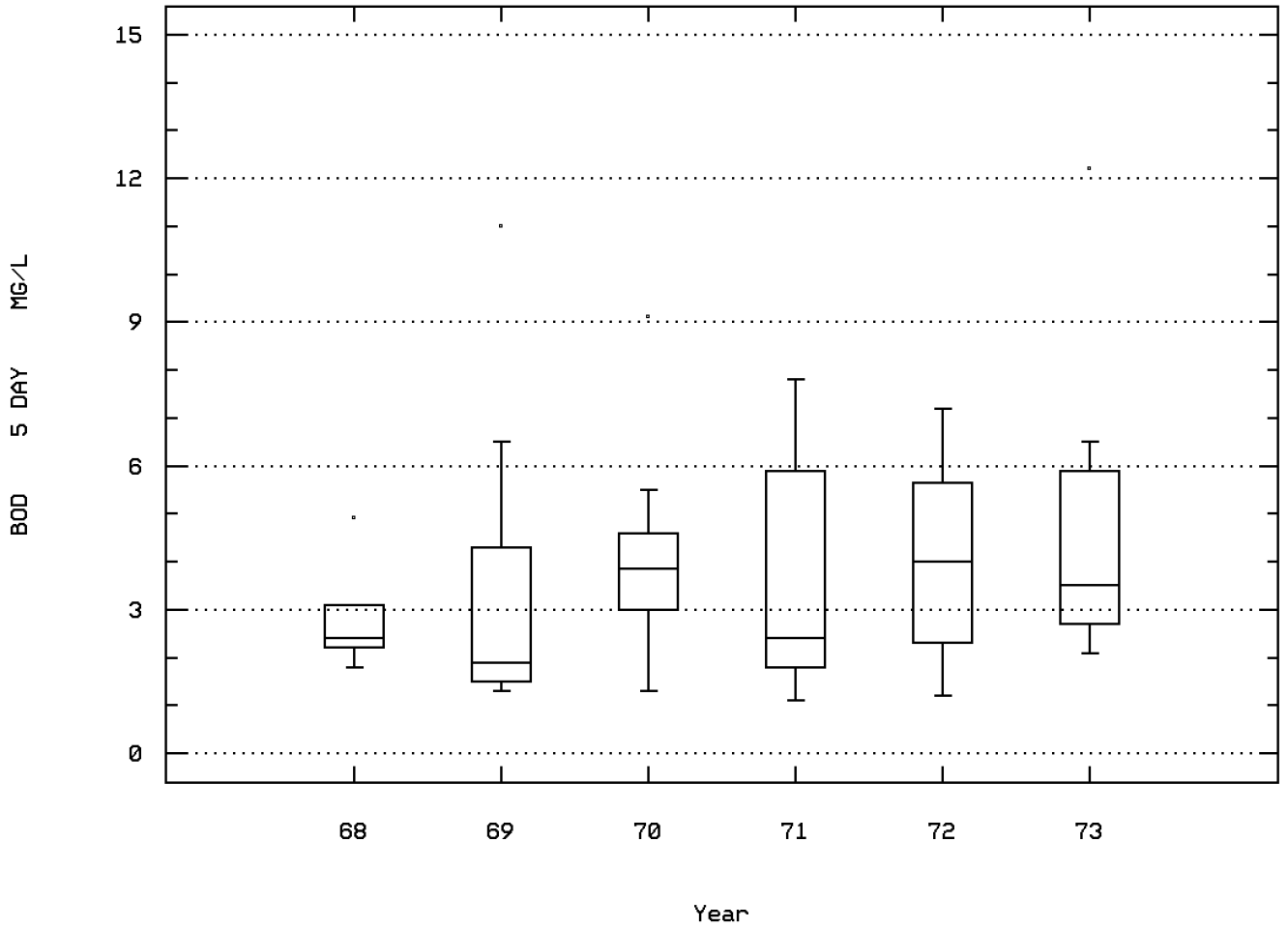
OXYGEN, DISSOLVED



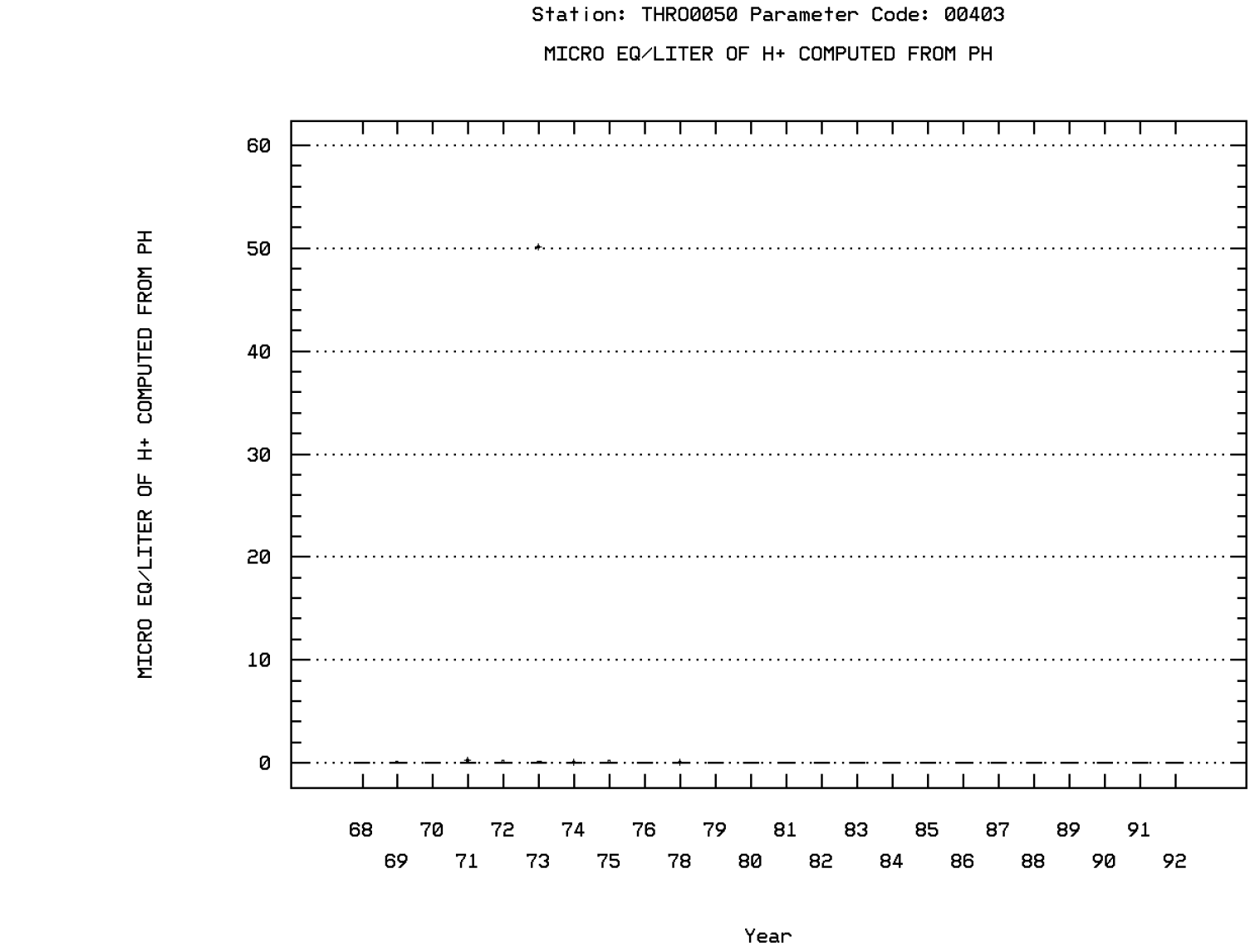
LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 00310

BOD, 5 DAY, 20 DEG C



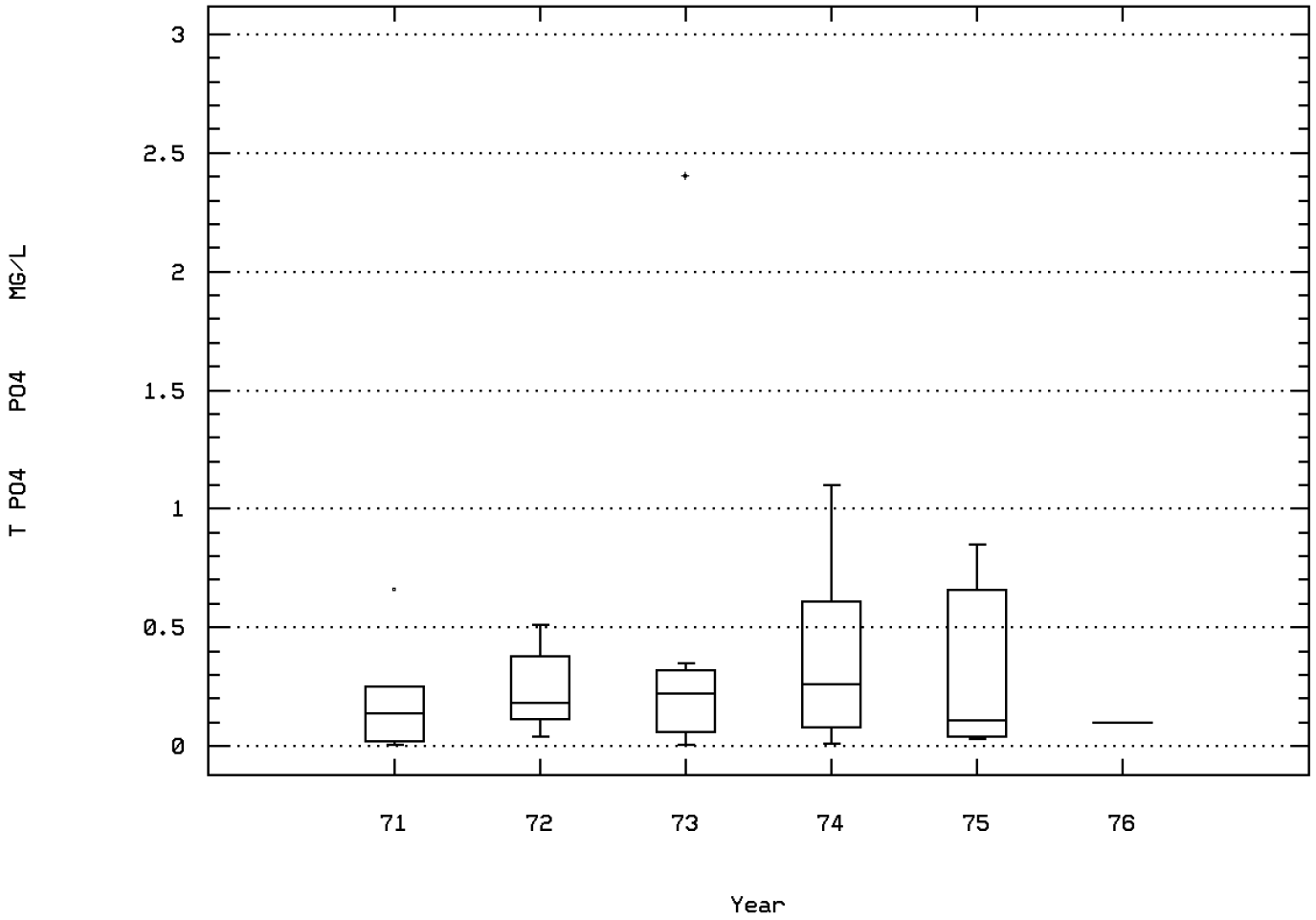
LITTLE MISSOURI R - MEDORA, ND



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00650

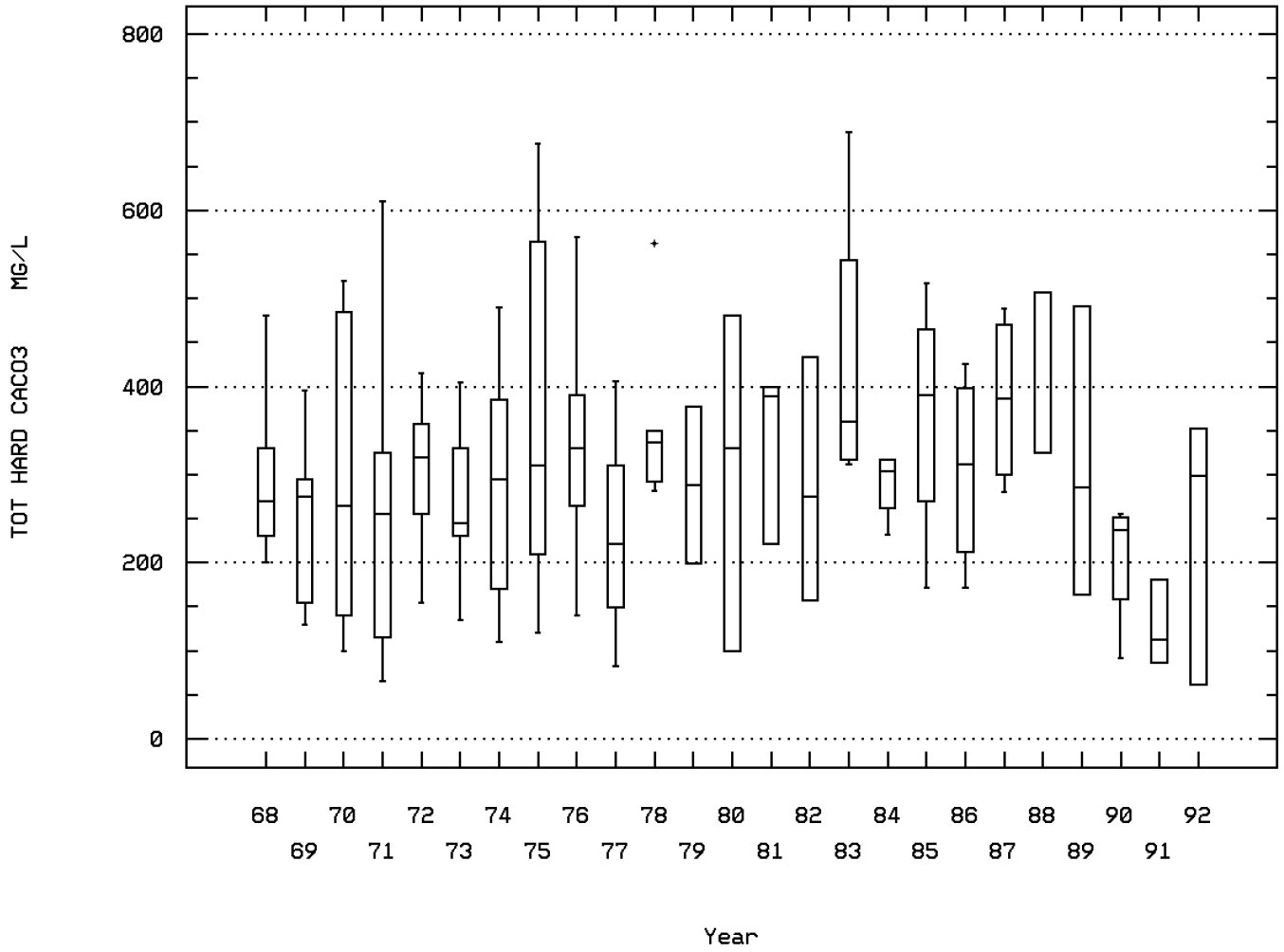
PHOSPHATE, TOTAL (MG/L AS PO4)



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00900

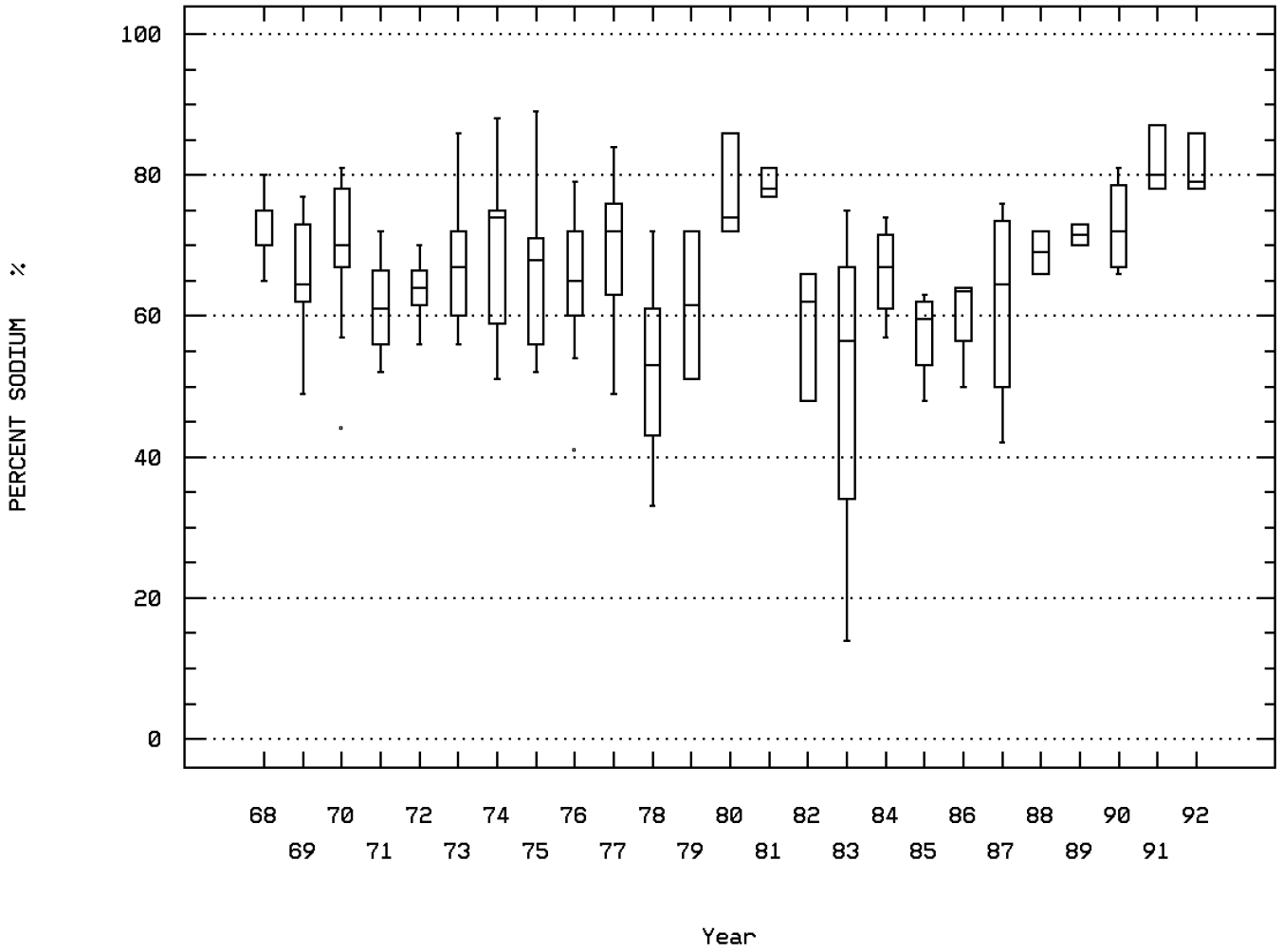
HARDNESS, TOTAL (MG/L AS CACO3)



LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 00932

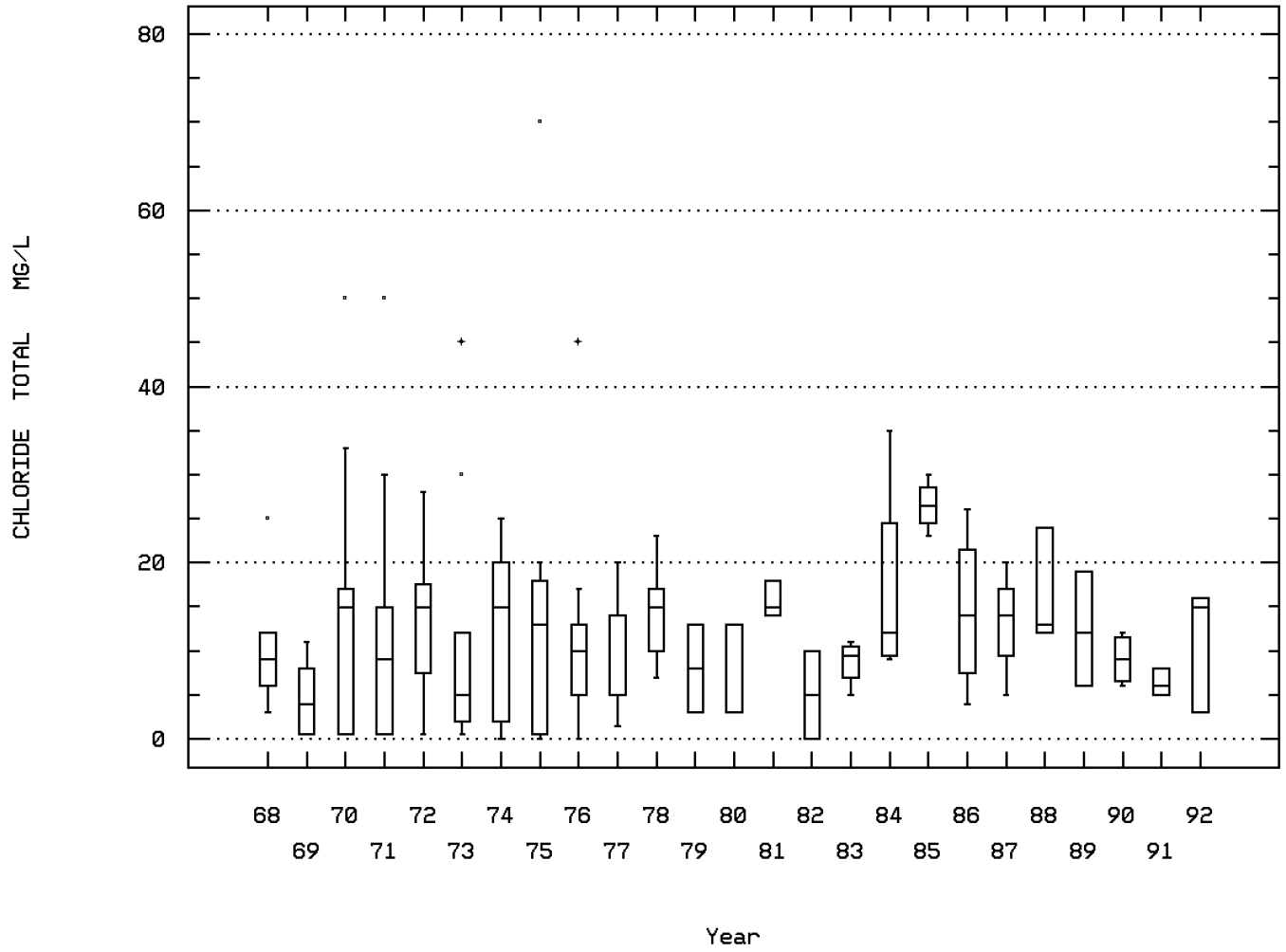
SODIUM, PERCENT



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00940

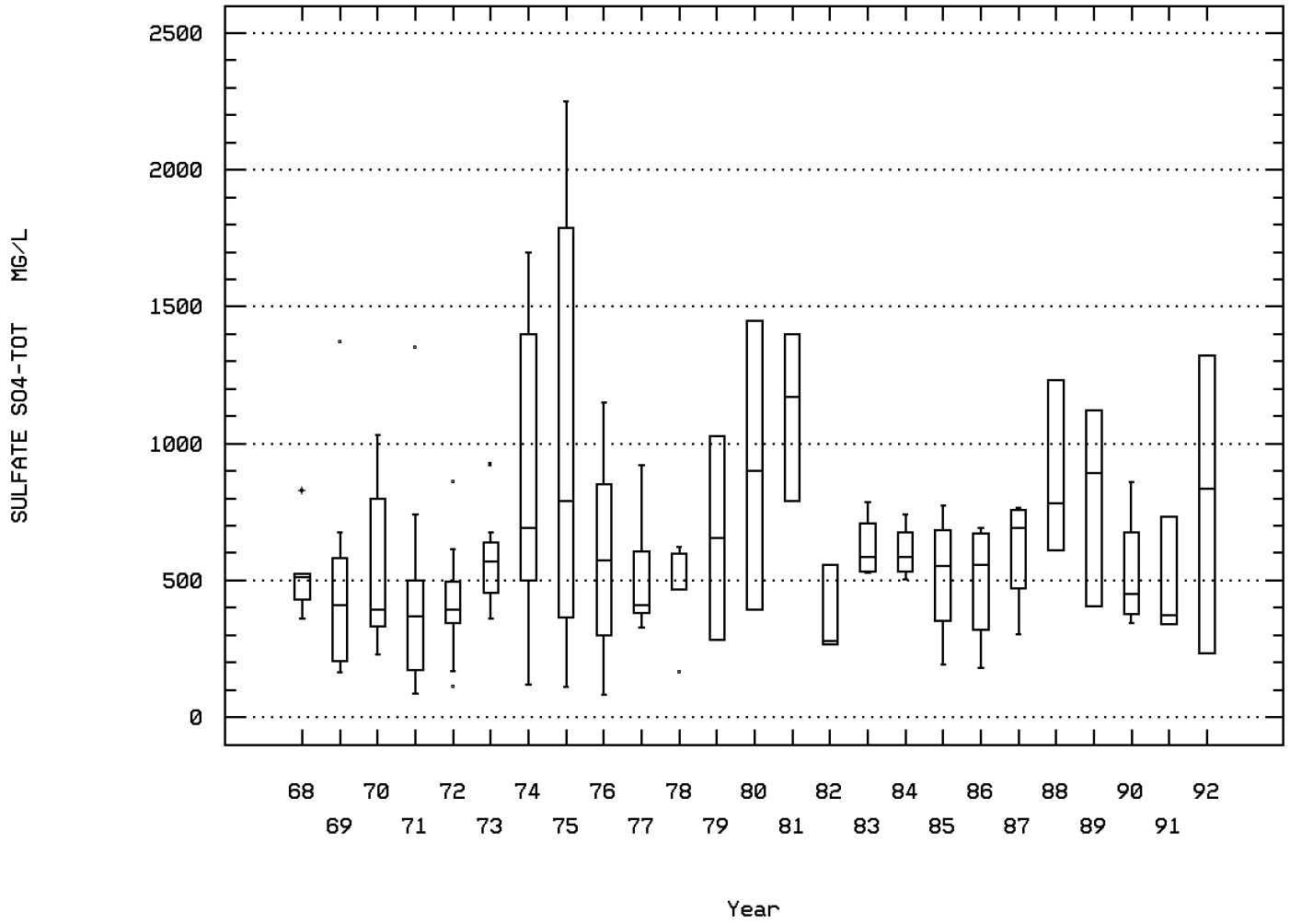
CHLORIDE,TOTAL IN WATER



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00945

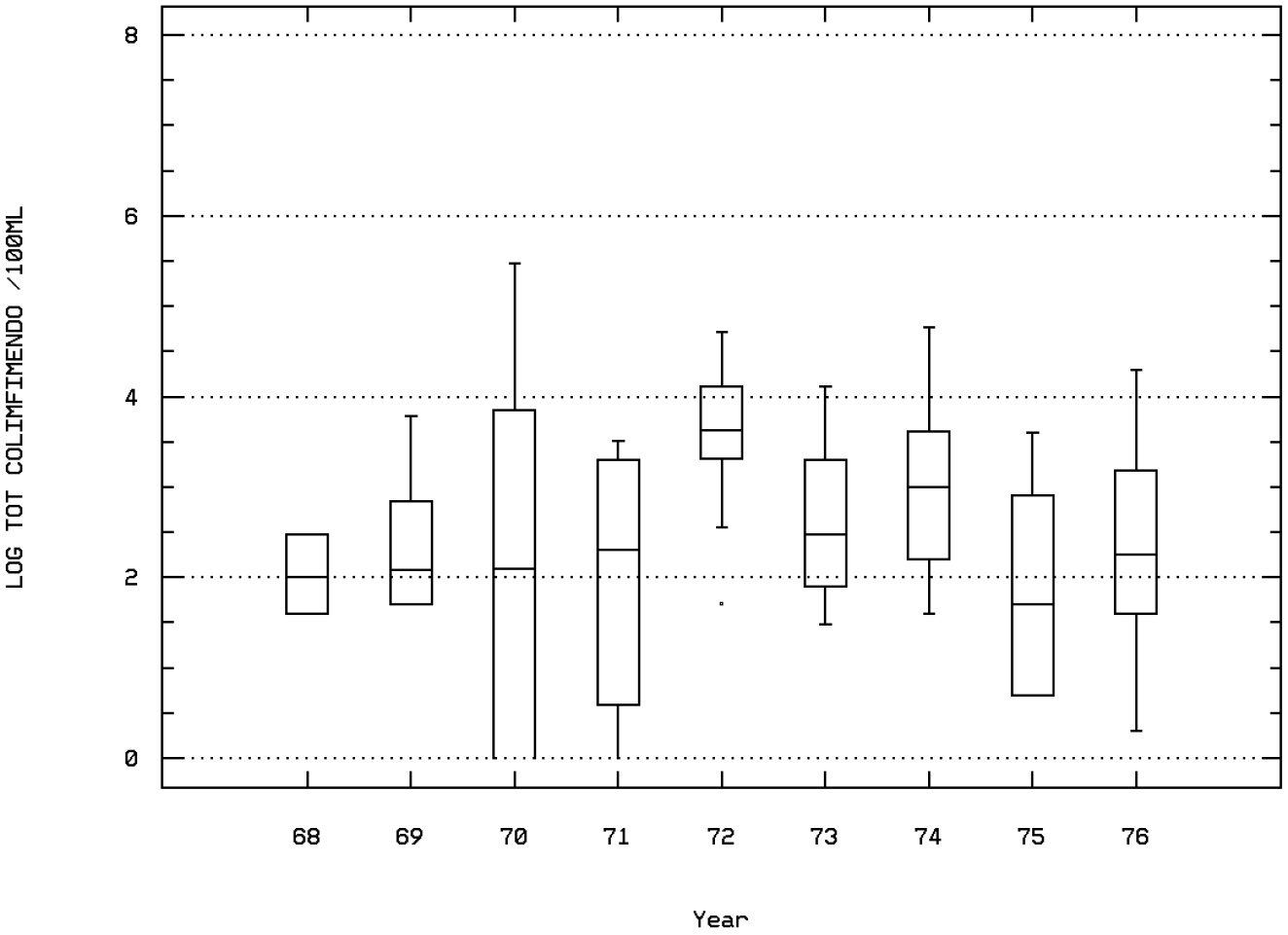
SULFATE, TOTAL (MG/L AS SO4)



LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 31501

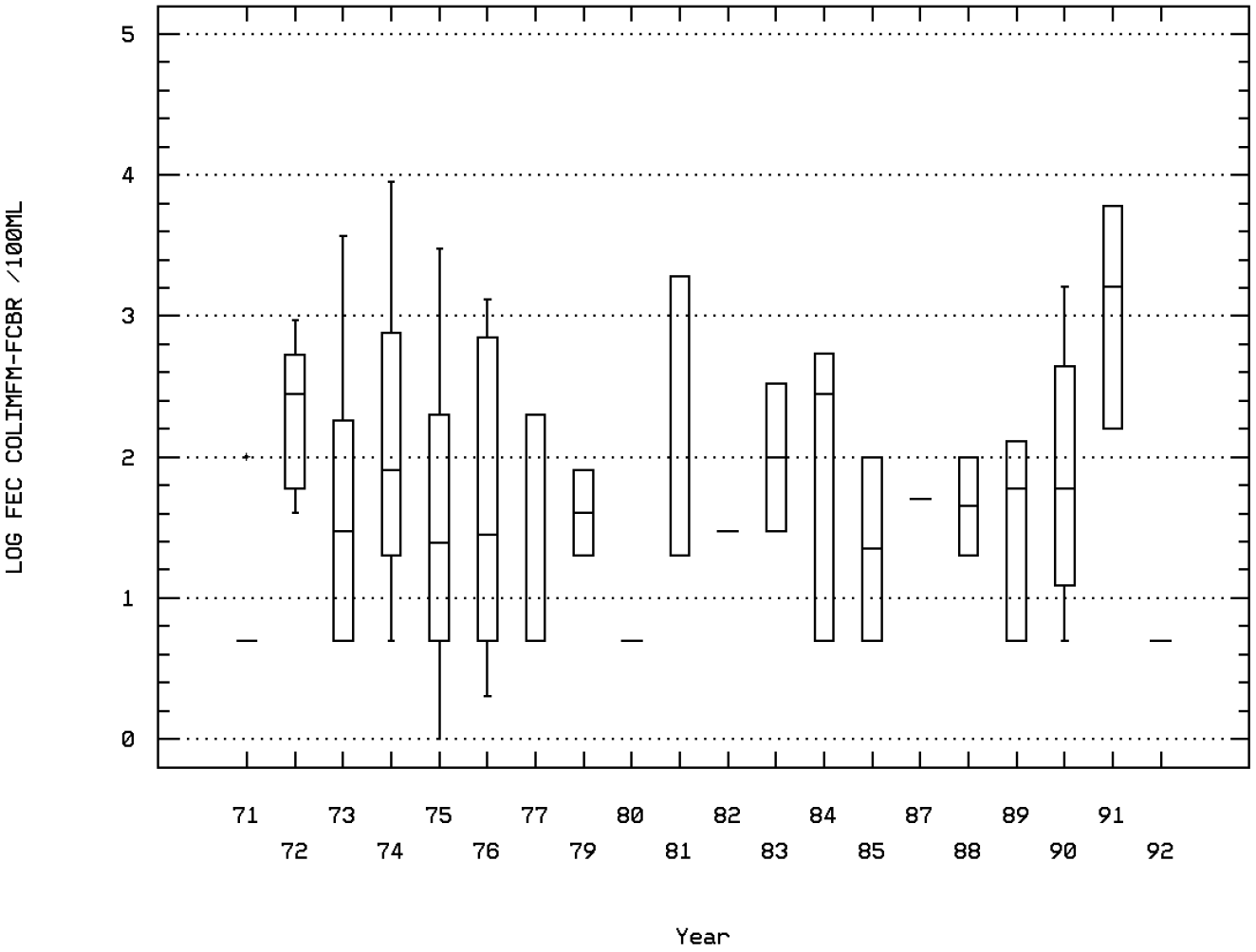
LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.



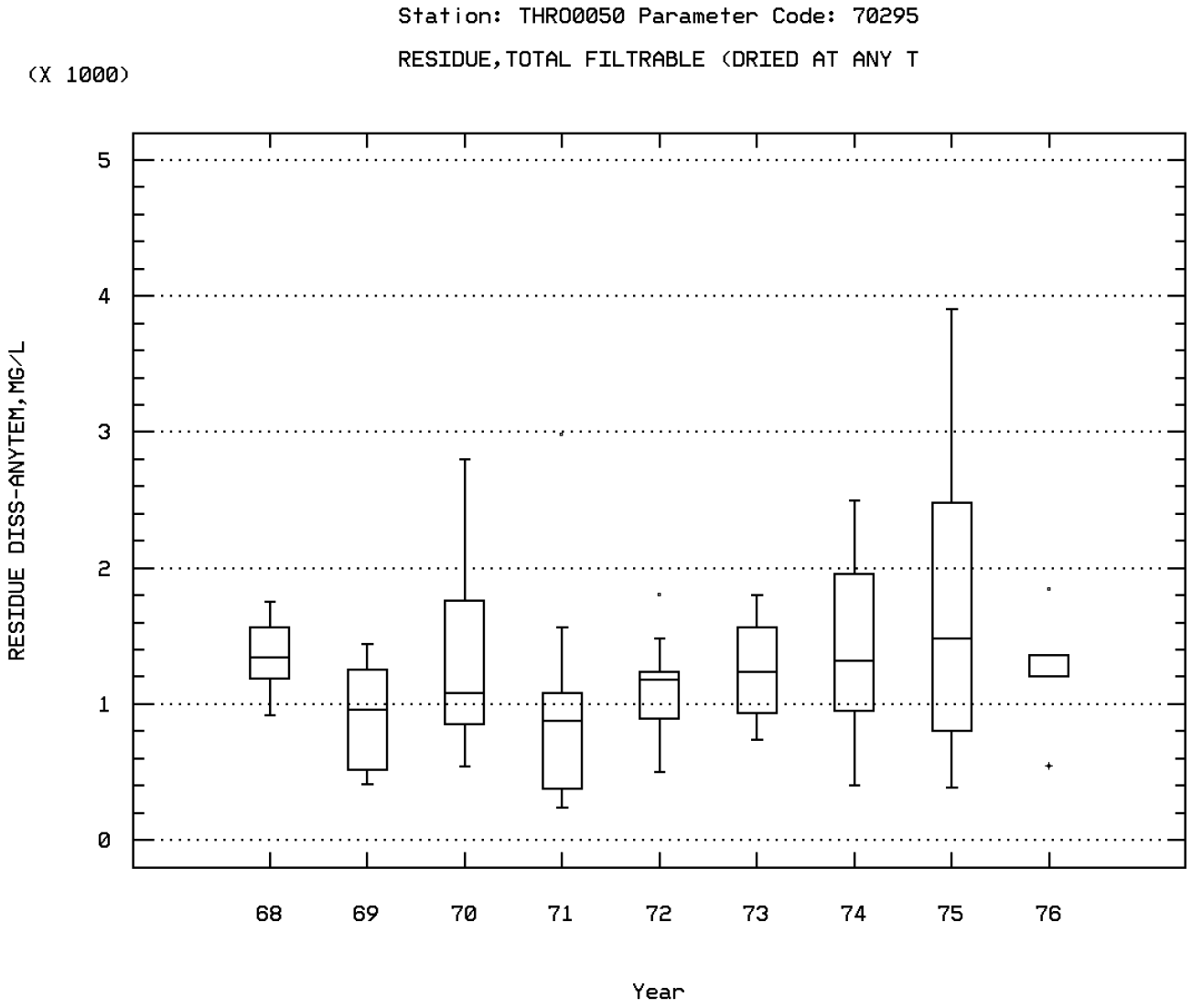
LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LITTLE MISSOURI R - MEDORA, ND



LITTLE MISSOURI R - MEDORA, ND

Seasonal Analysis for Season #1: 8/01 to 2/14 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	70	5.	7.8	28.	-1.	63.503	7.969	0.1	1.	14.	21.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/79-10/14/92	20	1822.5	1916.05	3240.	532.	517735.524	719.538	870.7	1467.75	2303.5	3145.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/79-10/14/92	12	9.4	9.558	12.6	7.6	2.019	1.421	7.72	8.175	10.375	12.12
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	64	10.1	9.911	15.	2.9	6.252	2.5	6.45	8.4	12.05	13.1
00400	PH (STANDARD UNITS)	03/09/77-10/14/92	23	8.1	8.05	8.8	6.9	0.186	0.431	7.38	7.8	8.3	8.58
00400	CONVERTED PH (STANDARD UNITS)	03/09/77-10/14/92	23	8.1	7.793	8.8	6.9	0.255	0.505	7.38	7.8	8.3	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/77-10/14/92	23	0.008	0.016	0.126	0.002	0.001	0.026	0.003	0.005	0.016	0.043
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	69	8.2	8.035	8.9	4.3	0.36	0.6	7.5	7.8	8.4	8.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	69	8.2	6.131	8.9	4.3	4.036	2.009	7.5	7.8	8.4	8.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	69	0.006	0.739	50.119	0.001	36.386	6.032	0.003	0.004	0.016	0.032
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-10/14/92	21	349.	339.	486.	102.	9145.2	95.631	182.2	284.5	401.	452.4
00440	BICARBONATE ION (MG/L AS HCO3)	04/12/78-10/14/92	21	419.	405.857	555.	125.	12763.529	112.976	222.6	334.5	488.5	538.4
00445	CARBONATE ION (MG/L AS CO3)	04/12/78-10/14/92	21	0.	4.	30.	0.	55.8	7.47	0.	0.	8.	12.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/76-10/14/92	20	0.072	0.14	0.756	0.	0.034	0.185	0.001	0.02	0.191	0.421
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/17/80-07/07/88	11	0.44	0.418	0.85	0.01	0.107	0.327	0.014	0.03	0.81	0.846
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/76-10/14/92	29	0.1	0.35	2.72	0.004	0.402	0.634	0.024	0.049	0.281	1.49
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/80-10/18/89	12	0.047	0.082	0.264	0.01	0.008	0.089	0.013	0.024	0.09	0.264
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/17/80-10/18/89	13	0.023	0.037	0.122	0.	0.001	0.035	0.004	0.016	0.054	0.11
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	77	334.	340.584	689.	83.	15161.562	123.132	179.2	260.	409.	501.4
00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/77-10/14/92	24	75.5	72.567	114.	20.	714.003	26.721	31.05	51.425	99.	106.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/77-10/14/92	24	42.5	40.246	98.5	8.	397.738	19.943	14.	25.1	51.525	60.7
00929	SODIUM, TOTAL (MG/L AS NA)	03/09/77-10/14/92	24	327.	334.563	615.	52.5	23669.637	153.849	112.	224.5	428.375	599.
00931	SODIUM ADSORPTION RATIO	04/08/79-10/14/92	20	8.55	8.355	14.1	0.9	11.383	3.374	2.9	6.3	10.825	13.33
00932p	SODIUM, PERCENT	06/26/68-10/14/92	77	69.	67.948	89.	14.	117.971	10.861	57.	63.	74.	80.2
00937	POTASSIUM, TOTAL MG/L AS K)	04/08/79-10/14/92	20	9.415	14.653	106.	5.	471.937	21.724	6.193	7.478	12.7	16.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	77	14.	15.799	50.	0.005	122.559	11.071	3.8	9.	20.	30.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	76	629.5	735.039	2250.	1.	172365.612	415.169	346.9	437.	915.	1356.
01002	ARSENIC, TOTAL (UG/L AS AS)	04/08/79-10/14/92	14	4.	64.036	667.	0.1	31058.007	176.233	0.1	1.575	40.5	387.5
01007	BARIUM, TOTAL (UG/L AS BA)	04/08/79-10/14/92	14	113.	236.857	780.	57.	61056.132	247.095	58.5	70.25	400.	750.5
01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/78-10/14/92	15	0.7	1.3	6.	0.	2.657	1.63	0.	0.1	2.	4.2
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/78-10/14/92	15	10.	66.313	480.	0.1	17870.031	133.679	0.46	2.	51.	342.
01042	COPPER, TOTAL (UG/L AS CU)	04/12/78-10/14/92	15	7.	90.527	718.	0.9	39899.546	199.749	1.56	4.	80.	516.4
01051	LEAD, TOTAL (UG/L AS PB)	04/08/79-10/14/92	14	5.5	36.643	210.	0.	3934.863	62.728	0.	1.	53.25	174.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/82-10/14/92	17	0.2	233.466	2400.	0.04	339261.457	582.462	0.08	0.2	216.5	872.
01092	ZINC, TOTAL (UG/L AS ZN)	04/08/79-10/14/92	14	55.	219.143	1100.	10.	105025.055	324.076	13.5	21.5	399.25	869.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/08/79-10/14/92	14	0.085	1.679	12.	0.	10.894	3.301	0.	0.	2.5	8.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	53	90.	2917.547	58000.	0.5	79408977.647	8911.172	0.5	25.	1620.	6960.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	53	1.954	2.114	4.763	-0.301	1.782	1.335	-0.301	1.389	3.209	3.843
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			129.891								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	53	20.	316.009	9000.	0.5	1752002.659	1323.632	5.	10.	75.	436.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	53	1.301	1.45	3.954	-0.301	0.642	0.801	0.699	1.	1.874	2.618
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			28.215								
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	48	1460.	1521.208	2980.	400.	331870.934	576.082	880.	1100.	1800.	2482.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/12/78-10/14/92	21	1370.	1424.952	2360.	392.	250202.148	500.202	778.4	1110.	1695.5	2244.
74010	IRON, TOTAL (MG/L AS FE)	07/14/82-10/14/92	17	1.92	17.446	194.	0.14	2130.75	46.16	0.148	0.355	17.6	55.76

** - Less 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: 2/15 to 3/19 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	11	1.	0.818	2.	0.	0.364	0.603	0.	0.	1.	1.8
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	10	10.1	10.46	13.8	6.7	5.94	2.437	6.77	8.75	12.65	13.76
00400	PH (STANDARD UNITS)	03/09/77-10/14/92	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/09/77-10/14/92	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/77-10/14/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	10	7.75	7.66	8.5	6.8	0.263	0.513	6.83	7.175	7.975	8.47

** - 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

Seasonal Analysis for Season #2: 2/15 to 3/19 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	10	7.747	7.398	8.5	6.8	0.339	0.582	6.83	7.175	7.975	8.47
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	10	0.018	0.04	0.158	0.003	0.002	0.048	0.003	0.011	0.067	0.151
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/76-10/14/92	3	0.16	0.392	1.011	0.005	0.293	0.542	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	11	175.	232.455	675.	65.	32204.273	179.455	66.	130.	345.	618.
00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/77-10/14/92	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/77-10/14/92	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/09/77-10/14/92	1	242.	242.	242.	242.	0.	0.	**	**	**	**
00932p	SODIUM, PERCENT	06/26/68-10/14/92	11	64.	64.545	81.	51.	83.473	9.136	51.8	56.	71.	79.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	11	8.	14.091	70.	0.	390.441	19.76	0.1	0.5	17.	59.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	11	370.	463.091	1880.	85.	243101.691	493.053	89.6	205.	400.	1628.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	10	650.	1532.5	5000.	5.	3090940.278	1758.107	8.5	85.	2975.	4820.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	10	2.812	2.626	3.699	0.699	0.957	0.978	0.789	1.901	3.473	3.68
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			422.77								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	7 ##	5.	111.	530.	2.	39272.	198.172	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	7 ##	0.699	1.271	2.724	0.301	0.856	0.925	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			18.684								
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	10	755.	1040.2	3900.	240.	1120966.622	1058.757	247.	466.	1200.	3630.

** - Less 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: 3/20 to 4/30 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	23	7.	7.652	16.	2.	16.601	4.074	2.4	4.	10.	14.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/79-10/14/92	12	1269.5	1389.5	2590.	583.	356897.727	597.409	643.9	956.25	1581.	2536.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/79-10/14/92	6	13.2	12.533	14.2	8.6	4.127	2.031	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	19	12.	11.911	14.5	9.2	2.913	1.707	9.5	10.	13.4	13.8
00400	PH (STANDARD UNITS)	03/09/77-10/14/92	16	7.95	7.994	8.81	7.6	0.107	0.327	7.6	7.725	8.175	8.523
00400	CONVERTED PH (STANDARD UNITS)	03/09/77-10/14/92	16	7.947	7.899	8.81	7.6	0.117	0.342	7.6	7.725	8.175	8.523
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/77-10/14/92	16	0.011	0.013	0.025	0.002	0.	0.008	0.003	0.007	0.019	0.025
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	24	8.	8.1	8.8	7.4	0.137	0.371	7.6	7.8	8.375	8.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	24	8.	7.959	8.8	7.4	0.158	0.398	7.6	7.8	8.375	8.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	24	0.01	0.011	0.04	0.002	0.	0.009	0.003	0.004	0.016	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-10/14/92	16	232.5	243.938	454.	102.	11027.929	105.014	103.4	153.	316.	426.
00440	BICARBONATE ION (MG/L AS HCO3)	04/12/78-10/14/92	16	281.	290.063	496.	124.	13863.529	117.743	126.1	187.25	373.5	491.1
00445	CARBONATE ION (MG/L AS CO3)	04/12/78-10/14/92	16	0.	3.813	32.	0.	69.363	8.328	0.	0.	4.75	18.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/76-10/14/92	15	0.068	0.07	0.17	0.009	0.002	0.044	0.017	0.031	0.093	0.152
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/17/80-07/07/88	9	0.07	0.174	0.56	0.01	0.043	0.208	0.01	0.03	0.375	0.56
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/76-10/14/92	16	0.5	0.706	2.63	0.085	0.461	0.679	0.11	0.194	1.067	1.972
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/80-10/18/89	7	0.095	0.357	1.09	0.029	0.249	0.499	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/17/80-10/18/89	10	0.057	0.12	0.446	0.027	0.021	0.144	0.027	0.035	0.167	0.434
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	25	264.	255.88	570.	87.	13237.277	115.053	112.	160.5	322.5	420.2
00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/77-10/14/92	17	60.	57.441	102.	20.8	341.753	18.487	32.16	44.	66.5	80.4
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/77-10/14/92	17	31.5	29.488	51.5	8.5	137.486	11.725	14.5	19.25	37.5	48.7
00929	SODIUM, TOTAL (MG/L AS NA)	03/09/77-10/14/92	17	203.	231.971	653.	65.	24662.765	157.044	71.4	117.5	278.5	530.6
00931	SODIUM ADSORPTION RATIO	04/08/79-10/14/92	13	5.9	6.823	14.2	2.4	14.964	3.868	2.64	3.65	9.7	13.56
00932p	SODIUM, PERCENT	06/26/68-10/14/92	25	62.	62.44	87.	33.	174.923	13.226	45.6	53.	72.5	80.8
00937	POTASSIUM, TOTAL MG/L AS K)	04/08/79-10/14/92	14	7.655	7.967	13.1	5.4	4.64	2.154	5.55	6.225	9.515	11.475
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	25	7.	8.44	27.	0.	45.819	6.769	0.3	3.	13.5	17.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	25	405.	459.96	1400.	110.	83084.207	288.243	165.	248.	608.	859.8
01002	ARSENIC, TOTAL (UG/L AS AS)	04/08/79-10/14/92	14	12.	35.957	182.	0.7	3022.778	54.98	0.75	1.725	52.	150.
01007	BARIUM, TOTAL (UG/L AS BA)	04/08/79-10/14/92	14	140.	249.929	693.	53.	49283.61	221.999	57.	70.	417.	662.5
01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/78-10/14/92	16	0.55	2.024	22.	0.	28.742	5.361	0.056	0.225	1.	8.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/78-10/14/92	16	11.5	39.6	198.	0.	3738.72	61.145	0.42	1.	55.75	180.5
01042	COPPER, TOTAL (UG/L AS CU)	04/12/78-10/14/92	16	10.	32.125	149.	3.	1888.65	43.459	3.	4.75	58.25	114.
01051	LEAD, TOTAL (UG/L AS PB)	04/08/79-10/14/92	14	15.	28.143	119.	2.	1103.209	33.215	3.	5.	43.	93.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/82-10/14/92	10	0.75	35.183	150.	0.003	3490.168	59.078	0.006	0.083	84.5	147.8

** - 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 #3: 3/20 to 4/30 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01092	ZINC, TOTAL (UG/L AS ZN)	04/08/79-10/14/92	14	91.	135.429	395.	9.	16784.264	129.554	12.	32.	225.75	375.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/08/79-10/14/92	14	1.	2.9	11.	0.	14.777	3.844	0.	0.25	6.5	10.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	8	130.	716.375	4900.	0.5	2872822.196	1694.94	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	8	2.102	1.644	3.69	-0.301	1.982	1.408	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			44.025								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	16	20.	220.	1600.	5.	236590.	486.405	5.	5.	117.5	1390.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	16	1.301	1.502	3.204	0.699	0.738	0.859	0.699	0.699	2.061	3.141
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			31.778								
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	8	522.	790.	1400.	384.	208676.571	456.811	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/12/78-10/14/92	16	866.	1003.125	2460.	416.	291146.65	539.58	461.5	578.75	1180.	1942.
74010	IRON, TOTAL (MG/L AS FE)	07/14/82-10/14/92	10	2.52	14.843	72.5	1.13	671.267	25.909	1.14	1.32	19.15	70.63

** - 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

Seasonal Analysis for Season #4: 5/01 to 7/31 - Station THRO0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/68-10/14/92	41	22.	20.049	30.	10.	25.71	5.071	12.	17.	23.5	25.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/79-10/14/92	13	1704.	1810.154	3430.	782.	501119.641	707.898	846.	1281.	2160.	3074.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/79-10/14/92	7	8.	8.671	11.9	6.1	5.679	2.383	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/26/68-04/03/92	36	8.8	8.611	13.2	5.	2.236	1.495	7.1	7.5	9.3	10.5
00400	PH (STANDARD UNITS)	03/09/77-10/14/92	18	8.145	8.103	8.6	7.5	0.086	0.294	7.77	7.875	8.3	8.51
00400	CONVERTED PH (STANDARD UNITS)	03/09/77-10/14/92	18	8.143	8.008	8.6	7.5	0.096	0.31	7.77	7.875	8.3	8.51
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/77-10/14/92	18	0.007	0.01	0.032	0.003	0.	0.007	0.003	0.005	0.013	0.017
00403p	PH, LAB, STANDARD UNITS SU	06/26/68-10/14/92	39	8.3	8.174	8.8	7.2	0.128	0.357	7.7	8.	8.4	8.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/26/68-10/14/92	39	8.3	7.993	8.8	7.2	0.162	0.402	7.7	8.	8.4	8.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/68-10/14/92	39	0.005	0.01	0.063	0.002	0.	0.013	0.003	0.004	0.01	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-10/14/92	15	276.	300.067	532.	188.	8402.638	91.666	195.2	227.	354.	446.8
00440	BICARBONATE ION (MG/L AS HCO3)	04/12/78-10/14/92	15	338.	354.733	633.	230.	11318.924	106.39	234.8	269.	422.	516.6
00445	CARBONATE ION (MG/L AS CO3)	04/12/78-10/14/92	15	5.	5.8	18.	0.	37.457	6.12	0.	0.	10.	16.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/14/76-10/14/92	15	0.058	0.082	0.278	0.001	0.006	0.075	0.004	0.042	0.123	0.222
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/17/80-07/07/88	9	0.02	0.067	0.33	0.006	0.012	0.108	0.006	0.007	0.1	0.33
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/76-10/14/92	19	0.14	1.102	10.6	0.01	6.628	2.575	0.04	0.085	0.461	3.92
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/80-10/18/89	10	0.045	0.229	1.55	0.026	0.225	0.474	0.026	0.035	0.173	1.43
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/17/80-10/18/89	9	0.018	0.094	0.658	0.	0.045	0.213	0.	0.01	0.058	0.658
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/26/68-10/14/92	43	264.	256.442	562.	61.	11048.538	105.112	108.2	170.	325.	376.
00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/77-10/14/92	18	60.4	61.917	116.	15.1	690.058	26.269	25.27	46.75	77.375	104.3
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/77-10/14/92	18	33.75	31.906	66.	5.6	281.122	16.767	5.96	19.75	39.875	55.2
00929	SODIUM, TOTAL (MG/L AS NA)	03/09/77-10/14/92	18	287.5	306.833	625.	177.	16229.676	127.396	178.8	191.	411.75	490.
00931	SODIUM ADSORPTION RATIO	04/08/79-10/14/92	12	8.05	8.767	13.2	4.8	6.681	2.585	5.31	6.625	10.825	12.96
00932p	SODIUM, PERCENT	06/26/68-10/14/92	42	65.5	66.19	86.	41.	115.182	10.732	52.	59.75	76.25	80.7
00937	POTASSIUM, TOTAL MG/L AS K)	04/08/79-10/14/92	13	11.	9.965	15.4	4.8	10.291	3.208	4.96	6.85	11.65	14.52
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/26/68-10/14/92	43	5.	6.291	30.	0.5	45.241	6.726	0.5	0.5	10.	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	06/26/68-10/14/92	43	488.	496.256	1450.	110.	59554.814	244.039	212.	338.	630.	784.
01002	ARSENIC, TOTAL (UG/L AS AS)	04/08/79-10/14/92	2	7.	7.	12.	2.	50.	7.071	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	04/08/79-10/14/92	2	321.5	321.5	591.	52.	145260.5	381.131	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/78-10/14/92	3	0.7	0.9	2.	0.	1.03	1.015	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/78-10/14/92	3	10.	11.	22.	1.	111.	10.536	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/12/78-10/14/92	3	11.	58.667	162.	3.	8024.333	89.579	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/08/79-10/14/92	2	43.5	43.5	84.	3.	3280.5	57.276	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/82-10/14/92	10	0.6	40.049	351.	0.01	12089.049	109.95	0.018	0.09	14.425	319.9
01092	ZINC, TOTAL (UG/L AS ZN)	04/08/79-10/14/92	2	137.5	137.5	269.	6.	34584.5	185.969	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/08/79-10/14/92	2	3.	3.	5.	1.	8.	2.828	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/25/68-12/14/76	24	1750.	18401.375	300000.	0.53	728878793.875	61064.546	1.25	105.	9000.	37000.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/25/68-12/14/76	24	3.239	2.907	5.477	-0.301	2.237	1.496	0.	2.02	3.945	4.529
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			807.618								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/71-10/14/92	26	285.	805.5	6000.	5.	1862278.1	1364.653	5.	27.5	820.	3000.

** - Less 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

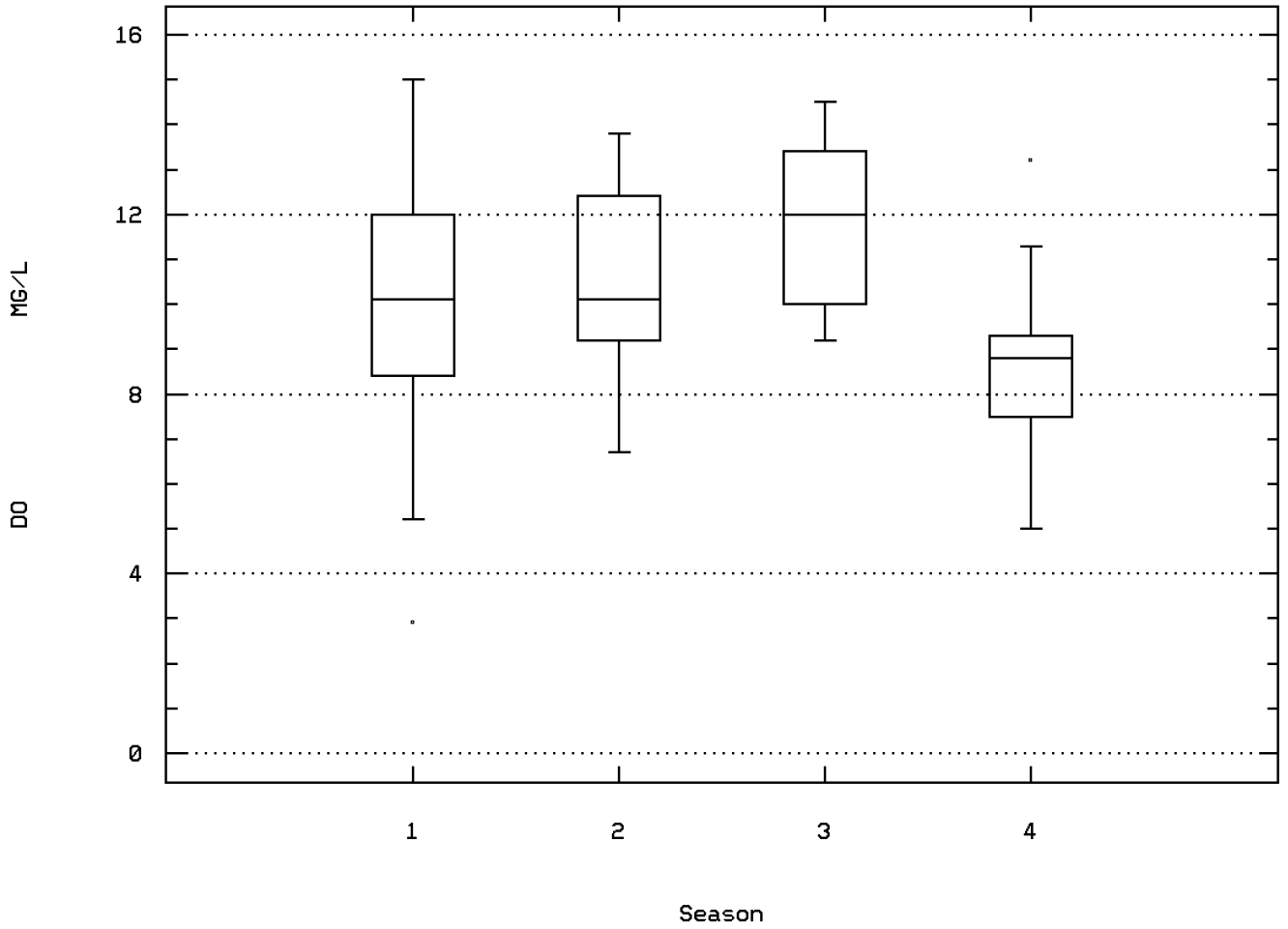
Seasonal Analysis for Season #4: 5/01 to 7/31 - Station THRO0050

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	08/13/71-10/14/92	26	2.455	2.211	3.778	0.699	0.908	0.953	0.699	1.433	2.912	3.477
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			162.472								
70295	RESIDUE,TOTAL FILTRABLE (DRIED AT ANY TEMP),MG/L	06/26/68-05/06/76	23	950.	928.348	1360.	376.	62719.874	250.439	499.2	800.	1120.	1264.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/12/78-10/14/92	15	1242.	1275.733	2460.	573.	228900.924	478.436	642.	1020.	1560.	2016.
74010	IRON, TOTAL (MG/L AS FE)	07/14/82-10/14/92	11	1.53	20.51	155.	0.48	2139.645	46.256	0.512	0.85	20.	131.94

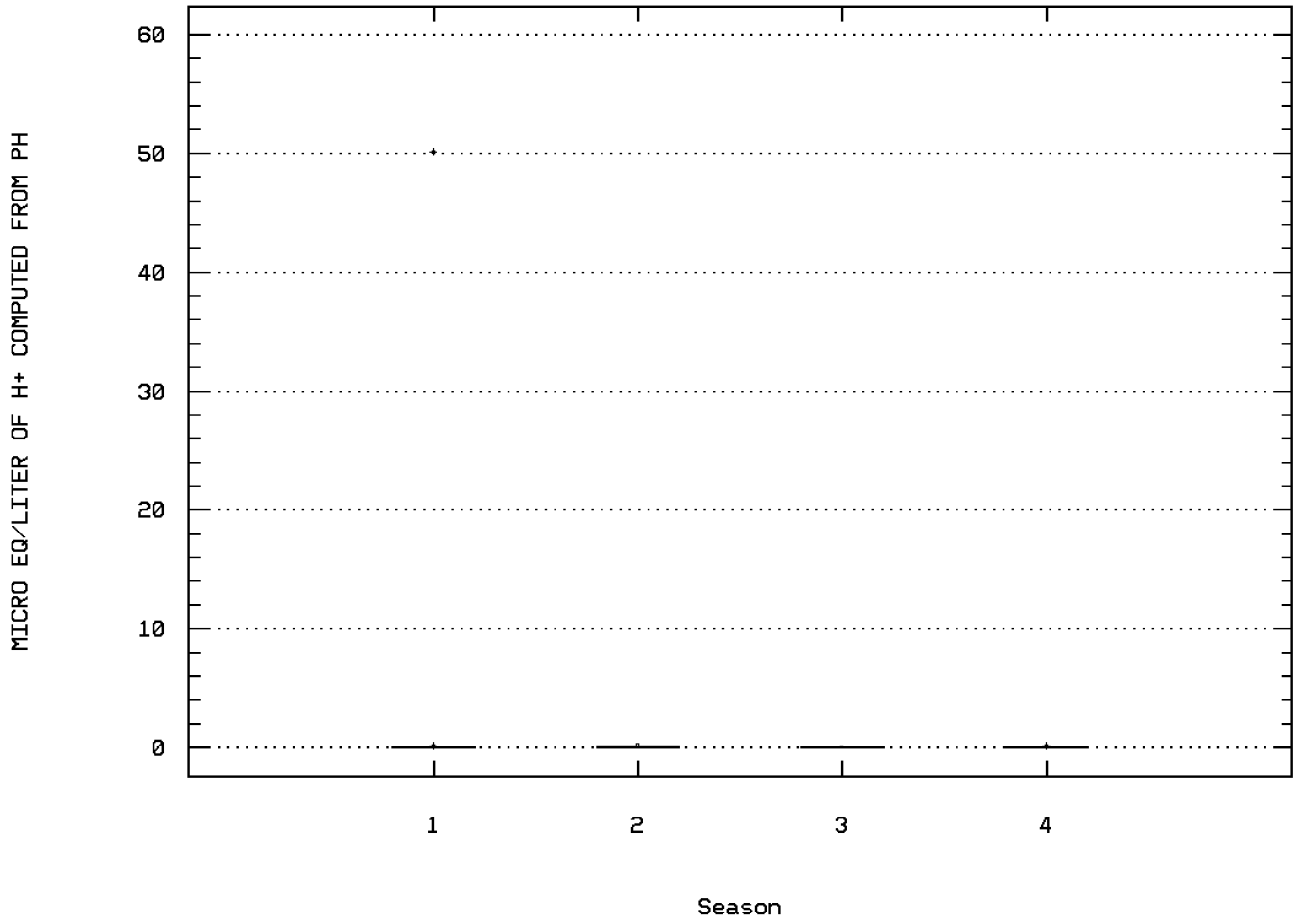
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: THRO0050 Parameter Code: 00300

OXYGEN, DISSOLVED



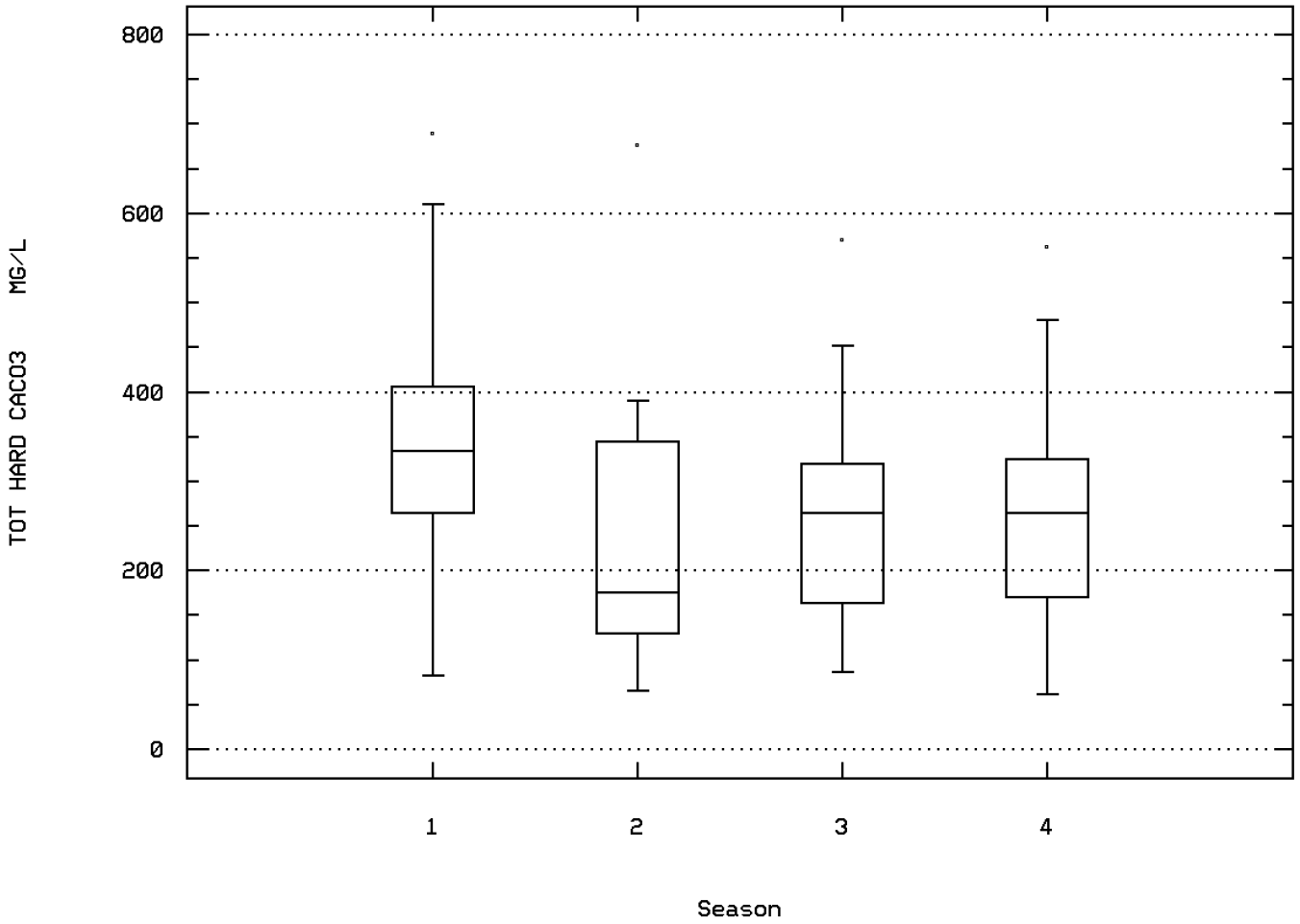
LITTLE MISSOURI R - MEDORA, ND



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00900

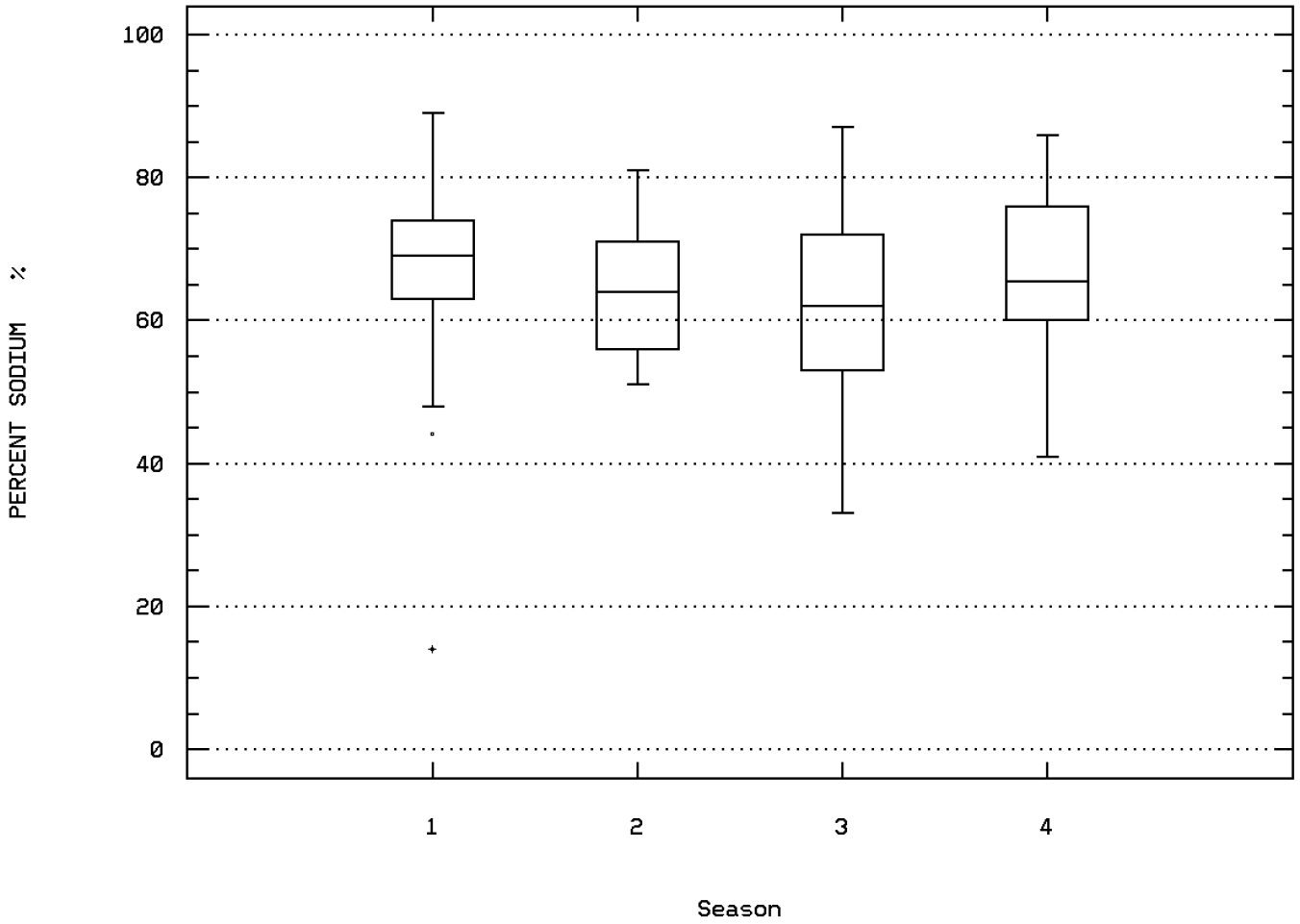
HARDNESS, TOTAL (MG/L AS CACO3)



LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 00932

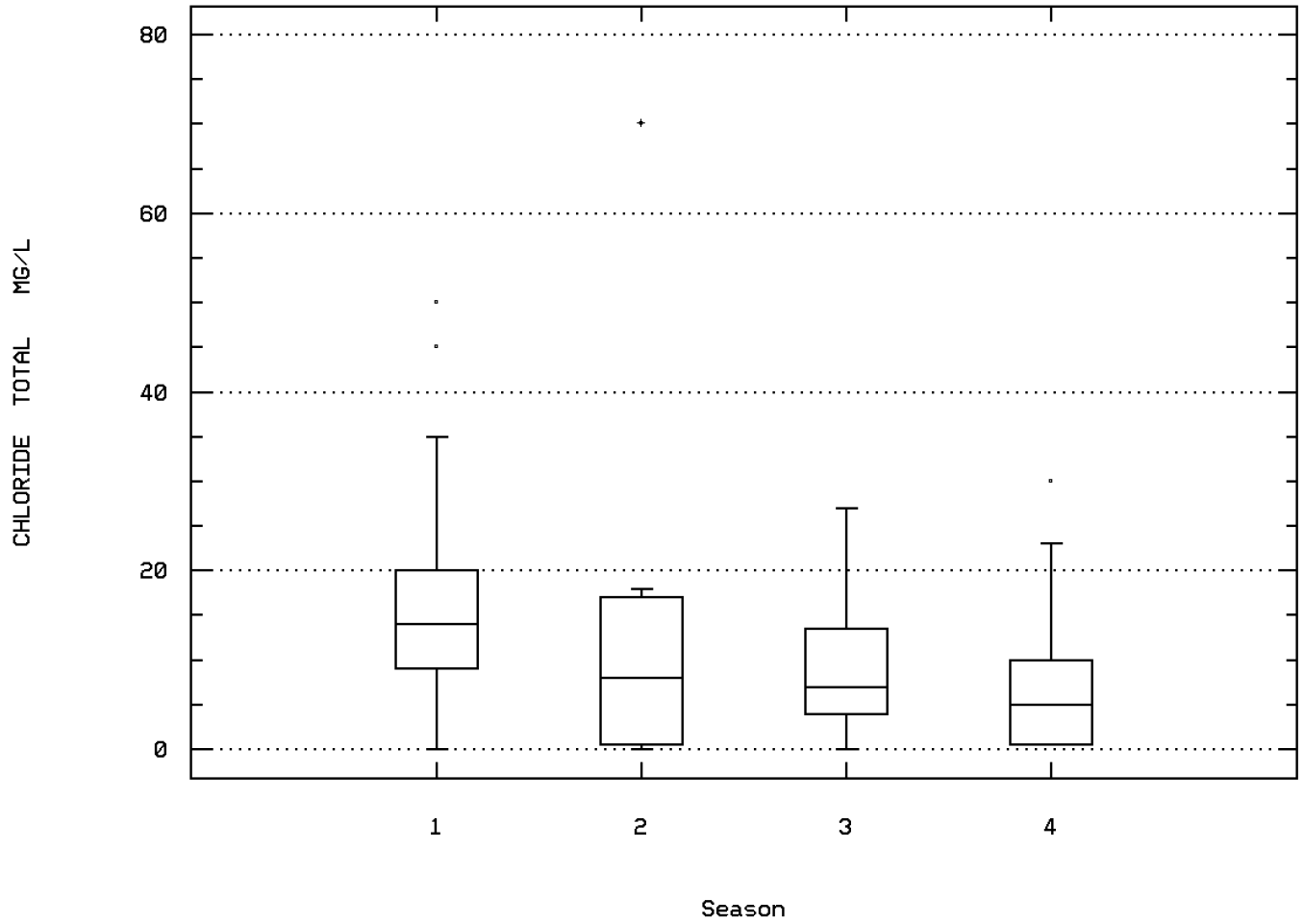
SODIUM, PERCENT



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00940

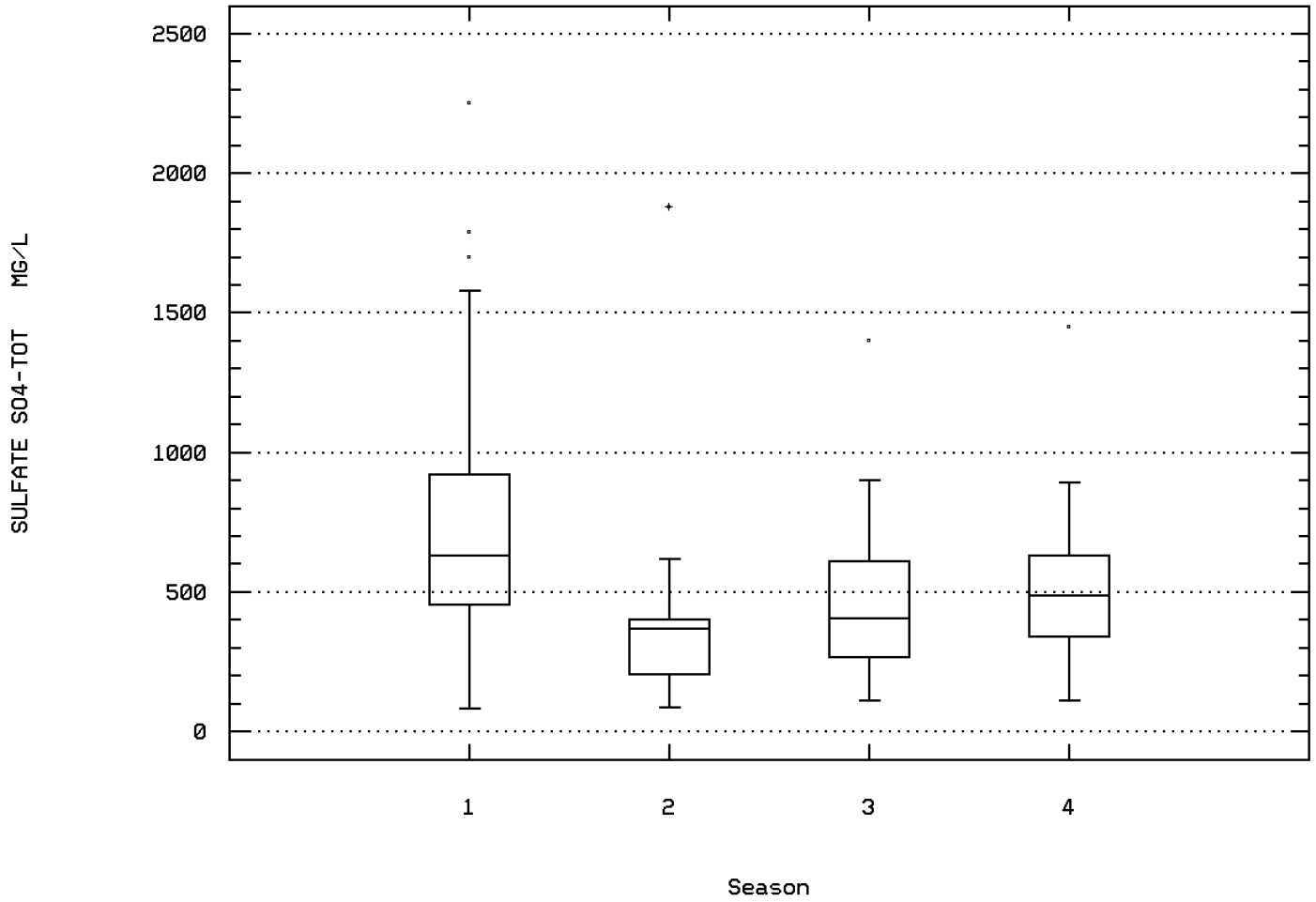
CHLORIDE,TOTAL IN WATER



LITTLE MISSOURI R - MEDORA, ND

Station: THR00050 Parameter Code: 00945

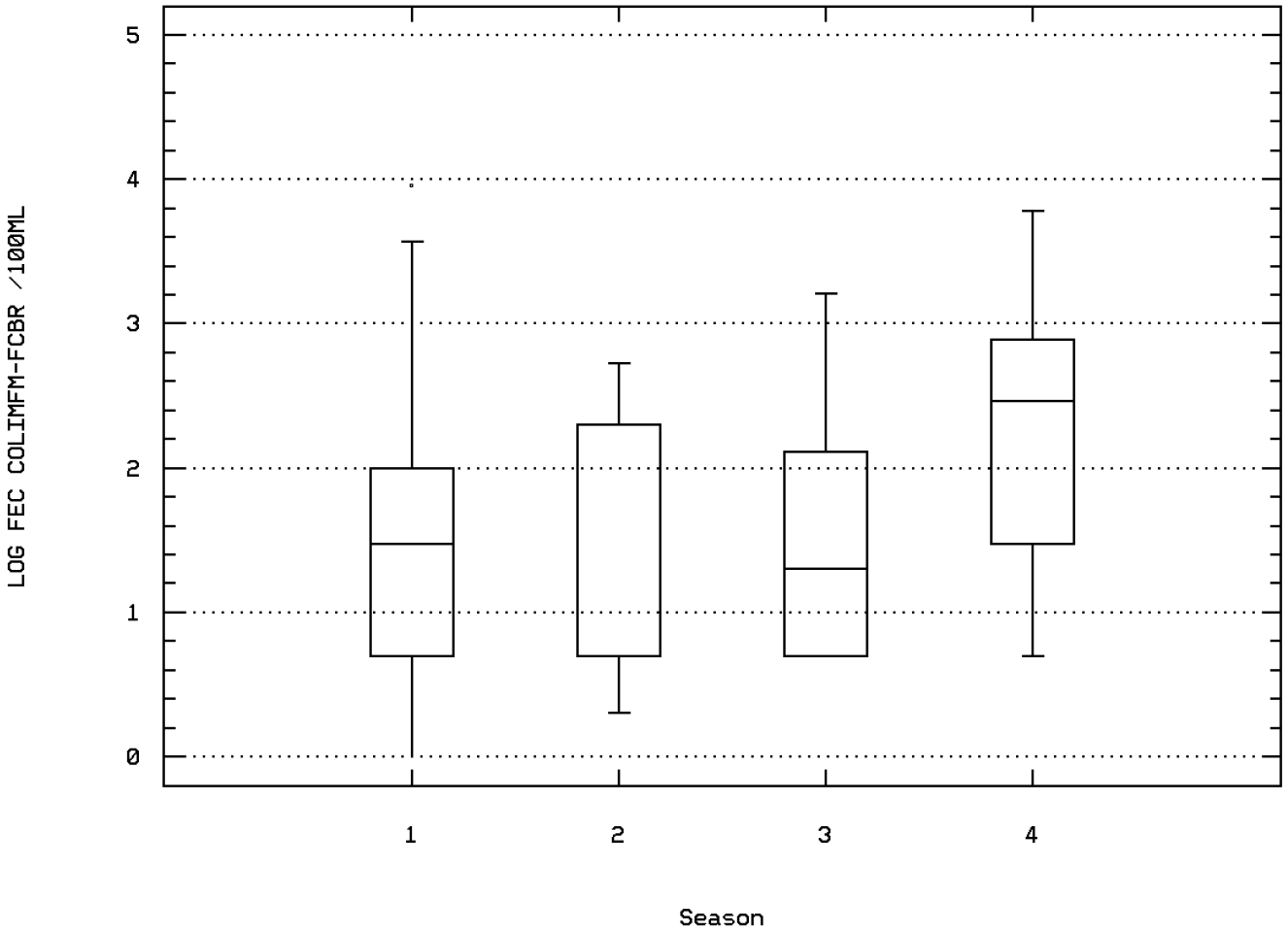
SULFATE, TOTAL (MG/L AS SO4)



LITTLE MISSOURI R - MEDORA, ND

Station: THRO0050 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LITTLE MISSOURI R - MEDORA, ND

Station Inventory for Station: THRO0051

NPS Station ID: THRO0051 LAT/LON: 47.023115/-103.534393 Agency: 11NPSWRD Date Created: 09/14/96
Location: LITTLE MISSOURI RIVER-NORTH BOUNDARY FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): THRO_SW20
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2239 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE WANNAGAN CREEK EAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE LATITUDE/LONGITUDE COORDINATES OF THE SITE ARE TAKEN FROM THE CENTER OF THE LITTLE MISSOURI RIVER AT THE NORTHERN BOUNDARY OF THE PARK. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	2764.5	2764.5	4610.	919.	6811740.5	2609.931	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.35	8.35	8.5	8.2	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.325	8.325	8.5	8.2	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.005	0.005	0.006	0.003	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	259.	259.	370.	148.	24642.	156.978	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	306.	306.	431.	181.	31250.	176.777	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	434.	434.	633.	235.	79202.	281.428	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	87.55	87.55	118.	57.1	1854.405	43.063	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	52.3	52.3	82.1	22.5	1776.08	42.144	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	533.	533.	913.	153.	288800.	537.401	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	10.05	10.05	15.8	4.3	66.125	8.132	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	67.	67.	76.	58.	162.	12.728	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	11.65	11.65	17.	6.3	57.245	7.566	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	13.	13.	19.	7.	72.	8.485	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	1184.	1184.	2020.	348.	1397792.	1182.283	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	157.5	157.5	193.	122.	2520.5	50.205	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	2038.	2038.	3390.	686.	3655808.	1912.017	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	2.565	2.565	3.4	1.73	1.394	1.181	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2	54.	54.	60.	48.	72.	8.485	**	**	**	**

** - Less 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: THRO0051

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	1	0.50	2	1	0.50									

& - 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: THRO0052

NPS Station ID: THRO0052
LAT/LON: 46.954448/-103.534448
Agency: 112WRD
Date Created: 01/25/77
Location: LITTLE MISSOURI R NR MEDORA, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465716103320401
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203012
RF1 Mile Point: 0.400
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203001302.35
RF3 Mile Point: 2.53
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/05/68-10/05/68	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/05/68-10/05/68	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/68-10/05/68	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	10/05/68-10/05/68	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/05/68-10/05/68	1	255.	255.	255.	255.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/05/68-10/05/68	1	286.	286.	286.	286.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/05/68-10/05/68	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/05/68-10/05/68	1	308.	308.	308.	308.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/05/68-10/05/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/05/68-10/05/68	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/05/68-10/05/68	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/05/68-10/05/68	1	368.	368.	368.	368.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/05/68-10/05/68	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/05/68-10/05/68	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/05/68-10/05/68	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/05/68-10/05/68	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/05/68-10/05/68	1	850.	850.	850.	850.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/05/68-10/05/68	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/05/68-10/05/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/05/68-10/05/68	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/05/68-10/05/68	1	2.04	2.04	2.04	2.04	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: THRO0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0053

NPS Station ID: THRO0053
LAT/LON: 46.951588/-103.536560
Agency: 11NPSWRD
Date Created: 09/14/96
Location: KNUTSON CREEK SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW13
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2240
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS WEST OF TOMAMICHAEL WELL. IT IS SOUTH OF KNUTSON CREEK AND THE LONE TREE LOOP HIKING AND HORSE TRAIL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	4234.	4234.	4350.	4118.	26912.	164.049	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	7.7	7.7	8.	7.4	0.18	0.424	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.604	7.604	8.	7.4	0.199	0.446	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	619.	619.	650.	588.	1922.	43.841	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	756.	756.	794.	718.	2888.	53.74	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.2	0.2	0.4	0.	0.08	0.283	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	930.5	930.5	989.	872.	6844.5	82.731	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	208.	208.	228.	188.	800.	28.284	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	99.85	99.85	102.	97.7	9.245	3.041	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	847.5	847.5	859.	836.	264.5	16.263	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	12.1	12.1	12.3	11.9	0.08	0.283	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	50.25	50.25	68.	32.5	630.125	25.102	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	7.5	7.5	7.9	7.1	0.32	0.566	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2020.	2020.	2110.	1930.	16200.	127.279	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.5	0.5	0.6	0.4	0.02	0.141	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	286.	286.	403.	169.	27378.	165.463	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	3560.	3560.	3700.	3420.	39200.	197.99	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.39	0.39	0.48	0.3	0.016	0.127	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	1	4.	4.	4.	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: THRO0053

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0054

NPS Station ID: THRO0054
LAT/LON: 47.120004/-103.538892
Agency: 112WRD
Date Created: 01/25/77
Location: ASH CREEK NR CONFLUENCE, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 470712103322001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203064
RF1 Mile Point: 0.990
Distance from RF1: 4.20
On/Off RF1: ON
RF3 Index: 10110203000800.76
RF3 Mile Point: 1.05
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/10/67-10/10/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/10/67-10/10/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/67-10/10/67	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	10/10/67-10/10/67	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/67-10/10/67	1	354.	354.	354.	354.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/10/67-10/10/67	1	432.	432.	432.	432.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/10/67-10/10/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/67-10/10/67	1	244.	244.	244.	244.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/67-10/10/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/67-10/10/67	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/67-10/10/67	1	13.2	13.2	13.2	13.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/67-10/10/67	1	615.	615.	615.	615.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/10/67-10/10/67	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/10/67-10/10/67	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/10/67-10/10/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/67-10/10/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/67-10/10/67	1	1220.	1220.	1220.	1220.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/67-10/10/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/67-10/10/67	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/67-10/10/67	1	2166.	2166.	2166.	2166.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/67-10/10/67	1	2.95	2.95	2.95	2.95	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: THRO0054

Parameter				Total	Exceed	Prop.	8/01-2/14			2/15-3/19			3/20-4/30			5/01-7/31		
		Std. Type	Std. Value	Obs	Standard	Exceeding	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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0055

NPS Station ID: THRO0055
LAT/LON: 46.887226/-103.539170
Agency: 112WRD
Date Created: 04/14/78
Location: 139-102-03BAC
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465314103322101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203014
RF1 Mile Point: 4.760
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203001404.42
RF3 Mile Point: 4.85
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/77-07/26/77	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/77-07/26/77	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/26/77-07/26/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/26/77-07/26/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/77-07/26/77	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/26/77-07/26/77	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	1	313.	313.	313.	313.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/26/77-07/26/77	1	375.	375.	375.	375.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/26/77-07/26/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/26/77-07/26/77	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/26/77-07/26/77	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/77-07/26/77	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/77-07/26/77	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/77-07/26/77	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/26/77-07/26/77	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/26/77-07/26/77	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/77-07/26/77	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/77-07/26/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/77-07/26/77	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/26/77-07/26/77	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/77-07/26/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/26/77-07/26/77	1	240.	240.	240.	240.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/26/77-07/26/77	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/26/77-07/26/77	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/26/77-07/26/77	1	1360.	1360.	1360.	1360.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/77-07/26/77	1	1390.	1390.	1390.	1390.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/26/77-07/26/77	1	0.4	0.4	0.4	0.4	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: THRO0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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

& - 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: THRO0056

NPS Station ID: THRO0056
LAT/LON: 47.141948/-103.541671
Agency: 112WRD
Date Created: 01/25/77
Location: 142-102-01DDA
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 470831103323001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10110203000405.33
RF3 Mile Point: 9.20
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/27/67-06/17/69	3	7.82	7.707	8.1	7.2	0.212	0.461	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/27/67-06/17/69	3	7.82	7.542	8.1	7.2	0.253	0.503	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/27/67-06/17/69	3	0.015	0.029	0.063	0.008	0.001	0.03	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/27/67-06/17/69	3	62.	97.667	189.	42.	6356.333	79.727	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/27/67-06/17/69	3	1540.	2316.667	4000.	1410.	2129433.333	1459.258	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/27/67-06/17/69	3	1875.	2824.	4881.	1716.	3179757.	1783.187	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/27/67-06/17/69	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/27/67-06/17/69	3	336.	277.667	451.	46.	43558.333	208.706	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/27/67-06/17/69	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/27/67-06/17/69	3	61.7	71.5	134.4	18.4	3436.03	58.618	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/27/67-06/17/69	3	72.3	56.	85.	10.7	1579.39	39.742	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/27/67-06/17/69	3	2366.	2277.333	2500.	1966.	77185.333	277.822	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/27/67-06/17/69	3	51.	60.	90.	39.	711.	26.665	**	**	**	**
00932	SODIUM, PERCENT	09/27/67-06/17/69	3	92.	92.667	98.	88.	25.333	5.033	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/27/67-06/17/69	3	0.	0.9	2.7	0.	2.43	1.559	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/27/67-06/17/69	3	1.	2.	4.	1.	3.	1.732	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/27/67-06/17/69	3	4125.	2940.667	4350.	347.	5057986.333	2248.997	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/27/67-06/17/69	3	0.	0.9	2.7	0.	2.43	1.559	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/27/67-06/17/69	3	6.8	7.267	10.9	4.1	11.723	3.424	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/27/67-06/17/69	3	7635.	6740.333	7836.	4750.	2981170.333	1726.607	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/27/67-06/17/69	3	10.4	9.187	10.7	6.46	5.599	2.366	**	**	**	**

** - Less 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: THRO0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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
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	3	1.00	2	2	1.00							1	1	1.00
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

Station Inventory for Station: THRO0057

NPS Station ID: THRO0057
LAT/LON: 46.885559/-103.544449
Agency: 112WRD
Date Created: 04/14/78
Location: 139-102-03BCB1
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465301103324001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203014
RF1 Mile Point: 4.760
Distance from RF1: 9.60
On/Off RF1: ON
RF3 Index: 10110203129100.00
RF3 Mile Point: 0.44
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/77-07/26/77	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/26/77-07/26/77	1	2100.	2100.	2100.	2100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/26/77-07/26/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/26/77-07/26/77	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/77-07/26/77	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/26/77-07/26/77	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	1	373.	373.	373.	373.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/26/77-07/26/77	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/26/77-07/26/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/26/77-07/26/77	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/26/77-07/26/77	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/26/77-07/26/77	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/26/77-07/26/77	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/26/77-07/26/77	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/26/77-07/26/77	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/26/77-07/26/77	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/26/77-07/26/77	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/26/77-07/26/77	1	9.6	9.6	9.6	9.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/77-07/26/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/26/77-07/26/77	1	870.	870.	870.	870.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/26/77-07/26/77	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/26/77-07/26/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/26/77-07/26/77	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/26/77-07/26/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/26/77-07/26/77	1	220.	220.	220.	220.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/26/77-07/26/77	1	1690.	1690.	1690.	1690.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/26/77-07/26/77	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/26/77-07/26/77	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

EPA Water Quality Criteria Analysis for Station: THRO0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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

& - 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: THRO0058

NPS Station ID: THRO0058
LAT/LON: 46.885559/-103.544449
Agency: 112WRD
Date Created: 04/14/78
Location: 139-102-03BCB2
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465308103324002
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203014
RF1 Mile Point: 4.760
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203001404.42
RF3 Mile Point: 4.85
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/77-09/29/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/77-08/21/80	2	1695.	1695.	1890.	1500.	76050.	275.772	**	**	**	**
00400	PH (STANDARD UNITS)	09/29/77-08/21/80	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/29/77-08/21/80	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/29/77-08/21/80	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/29/77-09/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/29/77-08/21/80	2	274.5	274.5	284.	265.	180.5	13.435	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/29/77-08/21/80	2	331.5	331.5	346.	317.	420.5	20.506	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/29/77-08/21/80	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/29/77-08/21/80	2	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/29/77-08/21/80	2	370.	370.	430.	310.	7200.	84.853	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/29/77-08/21/80	2	97.	97.	150.	44.	5618.	74.953	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/77-08/21/80	2	98.	98.	110.	86.	288.	16.971	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/77-08/21/80	2	30.5	30.5	38.	23.	112.5	10.607	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/29/77-08/21/80	2	260.	260.	280.	240.	800.	28.284	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/29/77-08/21/80	2	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/29/77-08/21/80	2	60.	60.	62.	58.	8.	2.828	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/29/77-08/21/80	2	7.15	7.15	7.5	6.8	0.245	0.495	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/29/77-08/21/80	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/29/77-08/21/80	2	630.	630.	730.	530.	20000.	141.421	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/77-08/21/80	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/77-08/21/80	2	19.	19.	20.	18.	2.	1.414	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/29/77-08/21/80	2	125.	125.	190.	60.	8450.	91.924	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/29/77-08/21/80	2	260.	260.	280.	240.	800.	28.284	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/29/77-08/21/80	2	1400.	1400.	1600.	1200.	80000.	282.843	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/29/77-08/21/80	2	1245.	1245.	1390.	1100.	42050.	205.061	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/29/77-08/21/80	2	1225.	1225.	1370.	1080.	42050.	205.061	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/29/77-08/21/80	2	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

EPA Water Quality Criteria Analysis for Station: THRO0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	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: THRO0059

NPS Station ID: THRO0059
LAT/LON: 46.938198/-103.547837
Agency: 11NPSWRD
Date Created: 09/14/96
Location: SOUTHEAST CORNER SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW06
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2880
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FRYBURG NORTHEAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SPRING IS IN THE SOUTHEAST CORNER OF THE UNIT. IT IS AT THE END OF THE WESTERN PATH THAT BRANCHES OFF OF THE UNMAINTAINED TALKINGTON TRAIL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466 FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	3949.	3949.	4000.	3898.	5202.	72.125	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	7.95	7.95	8.1	7.8	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.925	7.925	8.1	7.8	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.012	0.012	0.016	0.008	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	312.5	312.5	396.	229.	13944.5	118.087	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	381.5	381.5	484.	279.	21012.5	144.957	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.85	0.85	0.9	0.8	0.005	0.071	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	1325.	1325.	1420.	1230.	18050.	134.35	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	247.5	247.5	279.	216.	1984.5	44.548	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	171.	171.	175.	167.	32.	5.657	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	592.5	592.5	635.	550.	3612.5	60.104	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	7.05	7.05	7.3	6.8	0.125	0.354	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	36.75	36.75	49.	24.5	300.125	17.324	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	9.8	9.8	10.	9.6	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	17.5	17.5	18.	17.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	2155.	2155.	2260.	2050.	22050.	148.492	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	35.	35.	46.	24.	242.	15.556	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	3380.	3380.	3610.	3150.	105800.	325.269	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.165	0.165	0.3	0.03	0.036	0.191	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	1	30.	30.	30.	30.	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: THRO0059

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	2	2	1.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0060

NPS Station ID: THRO0060 | LAT/LON: 46.992253/-103.548421 | Agency: 11NPSWRD | Date Created: 09/14/96
Location: WANNAGAN SEEPS | FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): THRO_SW29
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203 | Depth of Water: 0 | Aquifer:
Major Basin: MISSOURI | Elevation: 2640 | Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI | ECO Region:
RF1 Index: 10110203 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 10130202002513.28 | RF3 Mile Point: 13.98 | Distance from RF3: 0.43 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS WEST OF THE LITTLE MISSOURI RIVER. IT IS NEAR THE HEAD OF AN INTERMITTENT STREAM THAT ORIGINATES WITHIN THE PARK BOUNDARY BUT FLOWS INTO LITTLE WANNAGAN CREEK NORTHWEST OF THE PARK BOUNDARY. THE SEEPS ARE ON A RIDGE THAT TAILS OFF INTO THE PETRIFIED FOREST PLATEAU. THE SITE IS WITHIN A LOOP FORMED BY THE PETRIFIED FOREST LOOP HIKING AND HORSE TRAIL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK. P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	833.	833.	1090.	576.	132098.	363.453	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.	8.	8.1	7.9	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	7.989	7.989	8.1	7.9	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.01	0.01	0.013	0.008	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	441.5	441.5	597.	286.	48360.5	219.91	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	535.5	535.5	729.	342.	74884.5	273.65	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	2.	2.	4.	0.	8.	2.828	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.55	0.55	1.1	0.	0.605	0.778	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	369.5	369.5	456.	283.	14964.5	122.329	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	69.3	69.3	75.9	62.7	87.12	9.334	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	47.7	47.7	64.8	30.6	584.82	24.183	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	57.7	57.7	86.	29.4	1601.78	40.022	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	1.3	1.3	1.8	0.8	0.5	0.707	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	19.	19.	29.	9.	200.	14.142	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	7.9	7.9	13.8	2.	69.62	8.344	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	24.	24.	44.	4.	800.	28.284	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.5	0.5	0.6	0.4	0.02	0.141	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	356.5	356.5	656.	57.	179400.5	423.557	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	479.5	479.5	615.	344.	36720.5	191.626	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.875	0.875	1.13	0.62	0.13	0.361	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	1	8.	8.	8.	8.	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: THRO0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0061

NPS Station ID: THRO0061
LAT/LON: 46.965559/-103.550004
Agency: 11NPSWRD
Date Created: 09/14/96
Location: TOMAMICHAEL WELL
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW01
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2310
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS A FREE FLOWING WELL ALONGSIDE OF THE KNUTSON CREEK TRIBUTARY OF THE LITTLE MISSOURI RIVER. THE SITE IS BETWEEN KNUTSON CREEK AND LONE TREE LOOP HIKING AND HORSE TRAIL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	1949.5	1949.5	2050.	1849.	20200.5	142.128	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.95	8.95	9.1	8.8	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.925	8.925	9.1	8.8	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	1025.	1025.	1030.	1020.	50.	7.071	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	1080.	1080.	1130.	1030.	5000.	70.711	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	82.5	82.5	110.	55.	1512.5	38.891	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	1.95	1.95	2.2	1.7	0.125	0.354	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	1.	1.	1.1	0.9	0.02	0.141	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	502.5	502.5	539.	466.	2664.5	51.619	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	72.95	72.95	74.	71.9	2.205	1.485	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2	99.	99.	99.	99.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	12.	12.	12.	12.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	69.	69.	78.	60.	162.	12.728	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	3.3	3.3	3.4	3.2	0.02	0.141	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	1205.	1205.	1230.	1180.	1250.	35.355	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.16	0.16	0.21	0.11	0.005	0.071	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/30/86-11/30/88	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**

** - Less 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: THRO0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00403	PH, LAB	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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0062

NPS Station ID: THRO0062
LAT/LON: 47.125559/-103.554726
Agency: 112WRD
Date Created: 03/17/77
Location: LITTLE MISSOURI AT ASH COULEE #8, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 470732103331700
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 5.00
On/Off RF1:
RF3 Index: 10110203000800.76
RF3 Mile Point: 4.01
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	1	3700.	3700.	3700.	3700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/76-11/15/76	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	521.	521.	521.	521.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	1	595.	595.	595.	595.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	540.	540.	540.	540.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	1	71.	71.	71.	71.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/15/76-11/15/76	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	1	850.	850.	850.	850.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	1	2740.	2740.	2740.	2740.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	1	2630.	2630.	2630.	2630.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	1	3.73	3.73	3.73	3.73	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	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

EPA Water Quality Criteria Analysis for Station: THRO0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0063

NPS Station ID: THRO0063
LAT/LON: 47.125559/-103.557227
Agency: 112WRD
Date Created: 01/25/77
Location: LITTLE MISSOURI R NR ASH CREEK, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 470732103332601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203004
RF1 Mile Point: 9.020
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203006400.00
RF3 Mile Point: 1.81
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/23/67-09/23/67	1	7.65	7.65	7.65	7.65	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/23/67-09/23/67	1	7.65	7.65	7.65	7.65	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/23/67-09/23/67	1	0.022	0.022	0.022	0.022	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/23/67-09/23/67	1	9.7	9.7	9.7	9.7	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/23/67-09/23/67	1	222.	222.	222.	222.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/23/67-09/23/67	1	271.	271.	271.	271.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/23/67-09/23/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/23/67-09/23/67	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/23/67-09/23/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/23/67-09/23/67	1	16.8	16.8	16.8	16.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/23/67-09/23/67	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/23/67-09/23/67	1	245.	245.	245.	245.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/23/67-09/23/67	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/23/67-09/23/67	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/23/67-09/23/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/23/67-09/23/67	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/23/67-09/23/67	1	344.	344.	344.	344.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/23/67-09/23/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/23/67-09/23/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/23/67-09/23/67	1	755.	755.	755.	755.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/23/67-09/23/67	1	1.03	1.03	1.03	1.03	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

EPA Water Quality Criteria Analysis for Station: THRO0063

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0064

NPS Station ID: THRO0064 LAT/LON: 47.006810/-103.559865 Agency: 11NPSWRD Date Created: 09/14/96
Location: MID DRAINAGE OF WANNAGAN CREEK TRIBUTARY FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): THRO_02
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2320 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE WANNAGAN CREEK EAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. IT IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS ALONG THE MID DRAINAGE THAT FLOWS INTO AN INTERMITTENT STREAM WHICH ORIGINATES AT WANNAGAN SEEPS AND FLOWS NORTH INTO LITTLE WANNAGAN CREEK. THE SITE IS PRIOR TO THE CONFLUENCE OF THE MID DRAINAGE AND THE INTERMITTENT STREAM. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/04/94-10/04/94	1	4100.	4100.	4100.	4100.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/04/94-10/04/94	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/94-10/04/94	1	2.31	2.31	2.31	2.31	0.	0.	**	**	**	**
30191	DINOSEB, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30192	MCPA, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
38710	BENTAZON WATER, TOTUG/L	10/04/94-10/04/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	6	3.75	6.393	15.2	0.3	46.107	6.79	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	1	4.88	4.88	4.88	4.88	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	5	1.2	10.86	27.7	0.5	193.723	13.918	**	**	**	**
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10/04/94-10/04/94	1	1.68	1.68	1.68	1.68	0.	0.	**	**	**	**
70979	BROMOXYNIL, WATER, WHOLE UG/L	10/04/94-10/04/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	10/04/94-10/04/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/04/94-10/04/94	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: THRO0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
30191	DINOSEB, WATER, WHOLE RECOVERABLE	Drinking Water	7.	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	6	0	0.00	2	0	0.00							4	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39760	SILVEX IN WHOLE WATER SAMPLE	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

Station Inventory for Station: THRO0065

NPS Station ID: THRO0065
LAT/LON: 46.982504/-103.561671
Agency: 11NPSWRD
Date Created: 09/14/96
Location: LONE TREE SPRING
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): THRO_SW02
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2680
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SPRING IS WEST OF THE LITTLE MISSOURI RIVER. IT IS ON A RIDGE ALONG THE SOUTHWESTERN BORDER OF PETRIFIED FOREST PLATEAU. IT IS INSIDE OF THE LOOP FORMED BY LONE TREE LOOP HIKING TRAIL. IT IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/30/86-11/30/88	2	568.	568.	599.	537.	1922.	43.841	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/30/86-11/30/88	2	8.4	8.4	8.6	8.2	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/30/86-11/30/88	2	8.355	8.355	8.6	8.2	0.084	0.29	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/86-11/30/88	2	0.004	0.004	0.006	0.003	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	276.	276.	277.	275.	2.	1.414	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/86-11/30/88	2	328.	328.	336.	320.	128.	11.314	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/86-11/30/88	2	4.5	4.5	9.	0.	40.5	6.364	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/86-11/30/88	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/86-11/30/88	2	64.	64.	65.	63.	2.	1.414	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/30/86-11/30/88	2	14.05	14.05	14.5	13.6	0.405	0.636	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/30/86-11/30/88	2	6.95	6.95	7.	6.9	0.005	0.071	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/30/86-11/30/88	2	119.	119.	122.	116.	18.	4.243	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/86-11/30/88	2	6.45	6.45	6.6	6.3	0.045	0.212	**	**	**	**
00932	SODIUM, PERCENT	10/30/86-11/30/88	2 ##	60.	60.	80.	40.	800.	28.284	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/30/86-11/30/88	2	4.2	4.2	4.3	4.1	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/86-11/30/88	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/86-11/30/88	2	24.	24.	27.	21.	18.	4.243	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/30/86-11/30/88	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/30/86-11/30/88	2	21.	21.	35.	7.	392.	19.799	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/30/86-11/30/88	2	337.5	337.5	338.	337.	0.5	0.707	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/30/86-11/30/88	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/30/88-11/30/88	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: THRO0065

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
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									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	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: THRO0066

NPS Station ID: THRO0066
LAT/LON: 46.808893/-103.561948
Agency: 112WRD
Date Created: 09/03/88
Location: 139-102-33ACC
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464832103334301
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 12.20
On/Off RF1:
RF3 Index: 10110203021400.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/83-08/26/83	1	448.	448.	448.	448.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/26/83-08/26/83	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/26/83-08/26/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/26/83-08/26/83	1	1.53	1.53	1.53	1.53	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/26/83-08/26/83	1	0.99	0.99	0.99	0.99	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/26/83-08/26/83	1	1.59	1.59	1.59	1.59	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/83-08/26/83	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/26/83-08/26/83	1	953.	953.	953.	953.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/26/83-08/26/83	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/26/83-08/26/83	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/83-08/26/83	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/83-08/26/83	1	396.	396.	396.	396.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/26/83-08/26/83	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/26/83-08/26/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/26/83-08/26/83	1	198.	198.	198.	198.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/26/83-08/26/83	1	97.	97.	97.	97.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/83-08/26/83	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/26/83-08/26/83	1	4.88	4.88	4.88	4.88	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/83-08/26/83	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/26/83-08/26/83	1	2554.	2554.	2554.	2554.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/83-08/26/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/26/83-08/26/83	1	4.2	4.2	4.2	4.2	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: THRO0066

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011	URANIUM, NATURAL, TOTAL	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: THRO0067

NPS Station ID: THRO0067
LAT/LON: 46.808893/-103.561948
Agency: 112WRD
Date Created: 05/19/84
Location: LITTLE MISSOURI R TRIB. 139-102-33ACC
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 464832103334300
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203059
RF1 Mile Point: 0.910
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10110203021400.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	08/26/83-08/26/83	1	448.	448.	448.	448.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/26/83-08/26/83	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/26/83-08/26/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/26/83-08/26/83	1	1.53	1.53	1.53	1.53	0.	0.	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/26/83-08/26/83	1	0.99	0.99	0.99	0.99	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/26/83-08/26/83	1	1.59	1.59	1.59	1.59	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/83-08/26/83	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/26/83-08/26/83	1	953.	953.	953.	953.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/26/83-08/26/83	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/26/83-08/26/83	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/26/83-08/26/83	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/26/83-08/26/83	1	396.	396.	396.	396.	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	08/26/83-08/26/83	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/26/83-08/26/83	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/26/83-08/26/83	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	08/26/83-08/26/83	1	198.	198.	198.	198.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/26/83-08/26/83	1	97.	97.	97.	97.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/26/83-08/26/83	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/26/83-08/26/83	1	4.88	4.88	4.88	4.88	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/26/83-08/26/83	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/26/83-08/26/83	1	2554.	2554.	2554.	2554.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/26/83-08/26/83	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	08/26/83-08/26/83	1	4.2	4.2	4.2	4.2	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: THRO0067

			Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
28011 URANIUM, NATURAL, TOTAL	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: THRO0068

NPS Station ID: THRO0068 LAT/LON: 47.019392/-103.563171 Agency: 11NPSWRD Date Created: 09/14/96
Location: WANNAGAN CREEK TRIBUTARY AT NORTH BOUNDARY FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): THRO_01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2360 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE WANNAGAN CREEK EAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. IT IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. IT IS ALONG THE INTERMITTENT STREAM THAT ORIGINATES AT WANNAGAN SEEPS AND FLOWS NORTH INTO LITTLE WANNAGAN CREEK. THE SITE IS SOUTH OF THE STREAM'S INTERSECTION WITH THE PETRIFIED FOREST LOOP HIKING AND HORSE TRAIL. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/27/94-10/04/94	2	1218.	1218.	2400.	36.	2794248.	1671.6	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/94-10/04/94	2 ##	0.009	0.009	0.013	0.005	0.	0.006	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/94-06/27/94	1	1.31	1.31	1.31	1.31	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/94-10/04/94	2	1.19	1.19	2.37	0.01	2.785	1.669	**	**	**	**
30191	DINOSEB, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30192	MCPA, WATER, WHOLE, RECOVERABLE UG/L	10/04/94-10/04/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
38710	BENTAZON WATER, TOTUG/L	10/04/94-10/04/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	6	0.59	4.838	17.	0.05	51.929	7.206	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/27/94-10/04/94	2	4.425	4.425	8.72	0.13	36.894	6.074	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10/04/94-10/04/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	4	8.4	10.313	24.2	0.25	135.037	11.621	**	**	**	**
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	06/27/94-10/04/94	2	0.81	0.81	1.56	0.06	1.125	1.061	**	**	**	**
70979	BROMOXYNIL, WATER, WHOLE UG/L	10/04/94-10/04/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	10/04/94-10/04/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/04/94-10/04/94	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: THRO0068

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00							1	0	0.00
30191	DINOSEB, WATER, WHOLE RECOVERABLE	Drinking Water	7.	1	0	0.00	1	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	6	0	0.00	2	0	0.00							4	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.	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: THRO0069

NPS Station ID: THRO0069
LAT/LON: 46.964253/-103.567170
Agency: 11NPSWRD
Date Created: 09/14/96
Location: KNUTSON CREEK AT WEST BOUNDARY
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): THRO_05
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 2320
Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10130202002513.28
RF3 Mile Point: 13.98
Distance from RF3: 0.43
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE AND IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS ON KNUTSON CREEK AT THE WESTERN BOUNDARY OF THE PARK. KNUTSON CREEK IS A TRIBUTARY OF THE LITTLE MISSOURI RIVER. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/27/94-06/27/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/94-06/27/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/94-06/27/94	1	1.03	1.03	1.03	1.03	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/94-06/27/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/27/94-07/05/95	2 ##	0.17	0.17	0.29	0.05	0.029	0.17	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/27/94-06/27/94	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/05/95-07/05/95	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	06/27/94-06/27/94	1	0.06	0.06	0.06	0.06	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: THRO0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	2	0	0.00										2	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	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: THRO0070

NPS Station ID: THRO0070 LAT/LON: 46.998809/-103.567198 Agency: 11NPSWRD Date Created: 09/14/96
Location: UPPER DRAINAGE OF WANNAGAN CREEK TRIBUTARY FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): THRO_03
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2520 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE MEDORA NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. IT IS IN THE SOUTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK. THE SITE IS ALONG THE UPPER DRAINAGE THAT FLOWS INTO AN INTERMITTENT STREAM WHICH ORIGINATES AT WANNAGAN SEEPS AND FLOWS NORTH INTO LITTLE WANNAGAN CREEK. THE SITE IS THE RESPONSIBILITY OF THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK AS LISTED ABOVE. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	9.15	9.15	12.	6.3	16.245	4.031	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	06/29/93-07/05/95	2	14.8	14.8	23.6	6.	154.88	12.445	**	**	**	**

** - Less 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: THRO0070

				Total	Exceed	Prop.	----------8/01-2/14----------			----------2/15-3/19----------			----------3/20-4/30----------			----------5/01-7/31----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	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: THRO0071

NPS Station ID: THRO0071 LAT/LON: 47.017476/-103.586866 Agency: 11NPSWRD Date Created: 09/14/96
Location: WANNAGAN CREEK TRIBUTARY NORTHWEST OF PARK FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): THRO_04
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10110203 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 2450 Water Body Id:
Minor Basin: NORTH CENTRAL MISSOURI ECO Region:
RF1 Index: 10110203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10130202002513.28 RF3 Mile Point: 13.98 Distance from RF3: 0.43 On/Off RF3:
Description:
THE SITE IS LOCATED ON THE WANNAGAN CREEK EAST NORTH DAKOTA-BILLINGS CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. IT IS IN THE CUSTER NATIONAL FOREST LITTLE MISSOURI GRASSLANDS OF THE US FOREST SERVICE. THE SITE IS NORTHWEST OF THEODORE ROOSEVELT NATIONAL PARK. IT IS ALONG THE NORTHERNMOST OF THREE DRAINAGES ORIGINATING WEST OF THE PETRIFIED FOREST HIKING AND HORSE TRAIL IN THEODORE ROOSEVELT NATIONAL PARK. EACH DRAINAGE FLOWS INTO THE SAME INTERMITTENT STREAM OF LITTLE WANNAGAN CREEK NORTHWEST OF THE PARK BOUNDARY. THE SITE IT NEAR THE CONFLUENCE OF THE NORTHERNMOST DRAINAGE AND THE STREAM. THE SITE IS THE RESPONSIBILITY OF CUSTER NATIONAL FOREST LITTLE MISSOURI GRASSLANDS -USFS MEDORA RANGER DISTRICT ROUTE 6 BOX 131 B DICKINSON NORTH DAKOTA 58601. FOR MORE INFORMATION CONTACT ROGER ANDRASICK - RESOURCE MANAGEMENT AT THEODORE ROOSEVELT NATIONAL PARK P.O. BOX 7 MEDORA NORTH DAKOTA 58645. PH.(701)623-4466. DATA PROCESSED AND UPLOADED TO STORET BY KELLI OCONNOR AT NPS WRD IN FORT COLLINS COLORADO PH.(970)225-3516.

Parameter Inventory for Station: THRO0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39720	PICLORAM IN WHOLE WATER SAMPLE (UG/L)	07/13/93-07/13/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
46321	2, 4-D (ME) IN WHOLE WATER SAMPLE (UG/L)	07/13/93-07/13/93	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: THRO0071

				Total	Exceed	Prop.	8/01-2/14			2/15-3/19			3/20-4/30			5/01-7/31		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	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: THRO0072

NPS Station ID: THRO0072
LAT/LON: 46.835004/-103.591670
Agency: 112WRD
Date Created: 02/28/78
Location: 139-102-19DDB
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 465006103353001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 4.60
On/Off RF1:
RF3 Index: 10110203001504.23
RF3 Mile Point: 4.35
Distance from RF3: 0.26
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/18/69-06/18/69	1	7.81	7.81	7.81	7.81	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/18/69-06/18/69	1	7.81	7.81	7.81	7.81	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/69-06/18/69	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/18/69-06/18/69	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	1	527.	527.	527.	527.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/18/69-06/18/69	1	642.	642.	642.	642.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/18/69-06/18/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	1	430.	430.	430.	430.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/18/69-06/18/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/18/69-06/18/69	1	93.5	93.5	93.5	93.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/18/69-06/18/69	1	48.6	48.6	48.6	48.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/18/69-06/18/69	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/18/69-06/18/69	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/18/69-06/18/69	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/18/69-06/18/69	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/69-06/18/69	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/69-06/18/69	1	2900.	2900.	2900.	2900.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/18/69-06/18/69	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/18/69-06/18/69	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/18/69-06/18/69	1	4680.	4680.	4680.	4680.	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: THRO0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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
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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0073

NPS Station ID: THRO0073
LAT/LON: 46.924171/-103.591948
Agency: 112WRD
Date Created: 01/25/77
Location: ANDREWS CREEK AT WEST RIVER ROAD, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 465527103353101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203013
RF1 Mile Point: 2.130
Distance from RF1: 15.80
On/Off RF1: ON
RF3 Index: 10110203008600.00
RF3 Mile Point: 1.44
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/30/67-10/30/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/30/67-10/30/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/30/67-10/30/67	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	10/30/67-10/30/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/30/67-10/30/67	1	413.	413.	413.	413.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/30/67-10/30/67	1	503.	503.	503.	503.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/30/67-10/30/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/30/67-10/30/67	1	248.	248.	248.	248.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/30/67-10/30/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/67-10/30/67	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/67-10/30/67	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/67-10/30/67	1	1096.	1096.	1096.	1096.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/30/67-10/30/67	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/30/67-10/30/67	1	83.	83.	83.	83.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/67-10/30/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/30/67-10/30/67	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/67-10/30/67	1	2350.	2350.	2350.	2350.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/67-10/30/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/67-10/30/67	1	8.	8.	8.	8.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/30/67-10/30/67	1	3867.	3867.	3867.	3867.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/30/67-10/30/67	1	5.26	5.26	5.26	5.26	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: THRO0073

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0074

NPS Station ID: THRO0074
LAT/LON: 46.851116/-103.594170
Agency: 112WRD
Date Created: 02/28/78
Location: 139-102-18DBD
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 465104103353901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203
RF1 Mile Point: 0.000
Distance from RF1: 2.20
On/Off RF1:
RF3 Index: 10110203006000.00
RF3 Mile Point: 5.11
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/18/69-06/18/69	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/18/69-06/18/69	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/69-06/18/69	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/18/69-06/18/69	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	1	610.	610.	610.	610.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/18/69-06/18/69	1	744.	744.	744.	744.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/18/69-06/18/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/18/69-06/18/69	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/18/69-06/18/69	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/18/69-06/18/69	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/18/69-06/18/69	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/18/69-06/18/69	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/18/69-06/18/69	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/18/69-06/18/69	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/18/69-06/18/69	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/69-06/18/69	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/69-06/18/69	1	3400.	3400.	3400.	3400.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/18/69-06/18/69	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/18/69-06/18/69	1	20.7	20.7	20.7	20.7	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/18/69-06/18/69	1	5405.	5405.	5405.	5405.	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: THRO0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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
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	1	1.00										1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	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

Station Inventory for Station: THRO0075

NPS Station ID: THRO0075
LAT/LON: 47.219170/-103.624726
Agency: 112WRD
Date Created: 04/14/78
Location: 143-102-09BCC2
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 471309103372901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203002
RF1 Mile Point: 5.420
Distance from RF1: 4.00
On/Off RF1: ON
RF3 Index: 10110203001400.03
RF3 Mile Point: 0.47
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/11/77-08/11/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/11/77-08/11/77	1	2100.	2100.	2100.	2100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/11/77-08/11/77	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/11/77-08/11/77	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/11/77-08/11/77	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/11/77-08/11/77	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/77-08/11/77	1	746.	746.	746.	746.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/11/77-08/11/77	1	869.	869.	869.	869.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/11/77-08/11/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/11/77-08/11/77	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/11/77-08/11/77	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/11/77-08/11/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/11/77-08/11/77	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/11/77-08/11/77	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/11/77-08/11/77	1	540.	540.	540.	540.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/11/77-08/11/77	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/11/77-08/11/77	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/11/77-08/11/77	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/11/77-08/11/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/11/77-08/11/77	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/11/77-08/11/77	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/77-08/11/77	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/11/77-08/11/77	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/11/77-08/11/77	1	240.	240.	240.	240.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/11/77-08/11/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/11/77-08/11/77	1	1610.	1610.	1610.	1610.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/11/77-08/11/77	1	1430.	1430.	1430.	1430.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/11/77-08/11/77	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

EPA Water Quality Criteria Analysis for Station: THRO0075

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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: THRO0076

NPS Station ID: THRO0076
LAT/LON: 47.317503/-103.638615
Agency: 112WRD
Date Created: 03/17/77
Location: LITTLE MISSOURI GOLDSBERRY RANCH #9, ND
FIPS State/County: 38007 NORTH DAKOTA/BILLINGS
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 471903103381900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10110203
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10110203001
RF1 Mile Point: 2.410
Distance from RF1: 3.10
On/Off RF1: ON
RF3 Index: 10110203000404.15
RF3 Mile Point: 4.17
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: THRO0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/76-11/15/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/76-11/15/76	1	3500.	3500.	3500.	3500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/76-11/15/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/76-11/15/76	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/15/76-11/15/76	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/15/76-11/15/76	1	583.	583.	583.	583.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/15/76-11/15/76	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/15/76-11/15/76	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/15/76-11/15/76	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/76-11/15/76	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/15/76-11/15/76	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/76-11/15/76	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/76-11/15/76	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/76-11/15/76	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/15/76-11/15/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/15/76-11/15/76	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/76-11/15/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/76-11/15/76	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/76-11/15/76	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/76-11/15/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/76-11/15/76	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/76-11/15/76	1	600.	600.	600.	600.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/76-11/15/76	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/76-11/15/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/76-11/15/76	1	2720.	2720.	2720.	2720.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/76-11/15/76	1	2740.	2740.	2740.	2740.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/15/76-11/15/76	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/15/76-11/15/76	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

EPA Water Quality Criteria Analysis for Station: THRO0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 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									
00618	NITRATE NITROGEN, DISSOLVED AS N	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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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									

& - 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 THRO Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	43	29	0.67	21	9	0.43	1	1	1.00	8	8	1.00	13	11	0.85
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	108	78	0.72	55	32	0.58	9	8	0.89	20	17	0.85	24	21	0.88
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	28	0	0.00	12	0	0.00	1	0	0.00	7	0	0.00	8	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	764	3	0.00	398	3	0.01	44	0	0.00	137	0	0.00	185	0	0.00
00400	PH	Other-Hi Lim.	9.	761	2	0.00	382	1	0.00	40	1	0.03	142	0	0.00	197	0	0.00
		Other-Lo Lim.	6.5	760 &	1	0.00	381	0	0.00	40	0	0.00	142	1	0.01	197	0	0.00
00403	PH, LAB	Other-Hi Lim.	9.	245	1	0.00	141	1	0.01	15	0	0.00	36	0	0.00	53	0	0.00
		Other-Lo Lim.	6.5	245	1	0.00	141	1	0.01	15	0	0.00	36	0	0.00	53	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	31	0	0.00	14	0	0.00	3	0	0.00	7	0	0.00	7	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	32	0	0.00	18	0	0.00	2	0	0.00	5	0	0.00	7	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	95	0	0.00	71	0	0.00				10	0	0.00	14	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	102	0	0.00	53	0	0.00	5	0	0.00	14	0	0.00	30	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	102	0	0.00	53	0	0.00	5	0	0.00	13	0	0.00	31	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	71	0	0.00	36	0	0.00	5	0	0.00	14	0	0.00	16	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	8	0	0.00	4	0	0.00				2	0	0.00	2	0	0.00
		Drinking Water	0.2	8	0	0.00	4	0	0.00				2	0	0.00	2	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	450	0	0.00	258	0	0.00	25	0	0.00	58	0	0.00	109	0	0.00
		Drinking Water	250.	450	0	0.00	258	0	0.00	25	0	0.00	58	0	0.00	109	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	448	384	0.86	257	231	0.90	25	16	0.64	58	40	0.69	108	97	0.90
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	167	0	0.00	93	0	0.00	9	0	0.00	25	0	0.00	40	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	64	2	0.03	55	1	0.02				4	0	0.00	5	1	0.20
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	70	0	0.00	36	0	0.00	4	0	0.00	16	0	0.00	14	0	0.00
		Drinking Water	50.	70	0	0.00	36	0	0.00	4	0	0.00	16	0	0.00	14	0	0.00
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	20	0	0.00	12	0	0.00				4	0	0.00	4	0	0.00
		Drinking Water	50.	20	2	0.10	12	1	0.08				4	0	0.00	4	1	0.25
01002	ARSENIC, TOTAL	Fresh Acute	360.	68	1	0.01	36	1	0.03				21	0	0.00	11	0	0.00
		Drinking Water	50.	68	13	0.19	36	7	0.19				21	4	0.19	11	2	0.18
01005	BARIUM, DISSOLVED	Drinking Water	2000.	69	0	0.00	35	0	0.00	4	0	0.00	16	0	0.00	14	0	0.00
01006	BARIUM, SUSPENDED	Drinking Water	2000.	14	1	0.07	10	1	0.10				2	0	0.00	2	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	60	2	0.03	32	2	0.06				19	0	0.00	9	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	35	0	0.00	17	0	0.00	3	0	0.00	8	0	0.00	7	0	0.00
		Drinking Water	4.	26 &	0	0.00	9	0	0.00	3	0	0.00	7	0	0.00	7	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	23	0	0.00	11	0	0.00	1	0	0.00	5	0	0.00	6	0	0.00
		Drinking Water	4.	17 &	13	0.76	7	6	0.86	1	0	0.00	4	3	0.75	5	4	0.80
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	63	2	0.03	34	1	0.03	3	0	0.00	13	0	0.00	13	1	0.08
		Drinking Water	5.	63	2	0.03	34	1	0.03	3	0	0.00	13	0	0.00	13	1	0.08
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	11 &	2	0.18	7	1	0.14				1	0	0.00	3	1	0.33
		Drinking Water	5.	13 &	2	0.15	8	1	0.13				2	0	0.00	3	1	0.33
01027	CADMIUM, TOTAL	Fresh Acute	3.9	57 &	5	0.09	29	2	0.07				19	1	0.05	9	2	0.22
		Drinking Water	5.	57 &	5	0.09	29	2	0.07				19	1	0.05	9	2	0.22
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	63	0	0.00	34	0	0.00	3	0	0.00	13	0	0.00	13	0	0.00
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	18	2	0.11	12	1	0.08				3	0	0.00	3	1	0.33
01034	CHROMIUM, TOTAL	Drinking Water	100.	72	13	0.18	37	8	0.22				23	3	0.13	12	2	0.17
01040	COPPER, DISSOLVED	Fresh Acute	18.	64	8	0.13	34	1	0.03	3	0	0.00	14	3	0.21	13	4	0.31
		Drinking Water	1300.	64	0	0.00	34	0	0.00	3	0	0.00	14	0	0.00	13	0	0.00
01041	COPPER, SUSPENDED	Fresh Acute	18.	22	13	0.59	14	9	0.64				4	2	0.50	4	2	0.50
		Drinking Water	1300.	22	0	0.00	14	0	0.00				4	0	0.00	4	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	72	37	0.51	37	17	0.46				23	12	0.52	12	8	0.67
		Drinking Water	1300.	72	0	0.00	37	0	0.00				23	0	0.00	12	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	69	0	0.00	36	0	0.00	4	0	0.00	16	0	0.00	13	0	0.00
		Drinking Water	15.	69	0	0.00	36	0	0.00	4	0	0.00	16	0	0.00	13	0	0.00
01050	LEAD, SUSPENDED	Fresh Acute	82.	19	4	0.21	13	3	0.23				2	0	0.00	4	1	0.25
		Drinking Water	15.	13 &	6	0.46	10	5	0.50							3	1	0.33
01051	LEAD, TOTAL	Fresh Acute	82.	51 &	12	0.24	27	6	0.22				17	3	0.18	7	3	0.43
		Drinking Water	15.	51 &	24	0.47	27	11	0.41				17	10	0.59	7	3	0.43
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	53	0	0.00	27	0	0.00	4	0	0.00	11	0	0.00	11	0	0.00
		Drinking Water	100.	53	0	0.00	27	0	0.00	4	0	0.00	11	0	0.00	11	0	0.00
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	9	0	0.00	6	0	0.00				1	0	0.00	2	0	0.00
		Drinking Water	100.	9	3	0.33	6	2	0.33				1	1	1.00	2	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	28	0	0.00	16	0	0.00				5	0	0.00	7	0	0.00
		Drinking Water	100.	28	12	0.43	16	7	0.44				5	3	0.60	7	2	0.29

& - 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 THRO Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
01075	SILVER, DISSOLVED	Fresh Acute	4.1	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	100.	58	0	0.00	31	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
01076	SILVER, SUSPENDED	Fresh Acute	4.1	9 &	0	0.00	7	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	100.	10	0	0.00	8	0	0.00				1	0	0.00	1	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	24 &	0	0.00	15	0	0.00				4	0	0.00	5	0	0.00
		Drinking Water	100.	31	0	0.00	19	0	0.00				5	0	0.00	7	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	68	0	0.00	35	0	0.00	3	0	0.00	16	0	0.00	14	0	0.00
		Drinking Water	5000.	68	0	0.00	35	0	0.00	3	0	0.00	16	0	0.00	14	0	0.00
01091	ZINC, SUSPENDED	Fresh Acute	120.	19	7	0.37	13	4	0.31				3	1	0.33	3	2	0.67
		Drinking Water	5000.	19	0	0.00	13	0	0.00				3	0	0.00	3	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	68	29	0.43	36	13	0.36				21	10	0.48	11	6	0.55
		Drinking Water	5000.	68	0	0.00	36	0	0.00				21	0	0.00	11	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	79	0	0.00	40	0	0.00	5	0	0.00	18	0	0.00	16	0	0.00
		Drinking Water	50.	79	0	0.00	40	0	0.00	5	0	0.00	18	0	0.00	16	0	0.00
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	21	0	0.00	13	0	0.00				4	0	0.00	4	0	0.00
		Drinking Water	50.	21	0	0.00	13	0	0.00				4	0	0.00	4	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	68	0	0.00	36	0	0.00				21	0	0.00	11	0	0.00
		Drinking Water	50.	68	0	0.00	36	0	0.00				21	0	0.00	11	0	0.00
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	1	1.00							1	1	1.00			
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	13	0	0.00	13	0	0.00									
30191	DINOSEB, WATER, WHOLE RECOVERABLE	Drinking Water	7.	2	0	0.00	2	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	97	37	0.38	55	18	0.33	10	4	0.40	8	1	0.13	24	14	0.58
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	17	6	0.35	5	1	0.20				5	0	0.00	7	5	0.71
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	2	0.67	2	2	1.00				1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	123	32	0.26	64	10	0.16	8	2	0.25	17	3	0.18	34	17	0.50
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	73	14	0.19	41	7	0.17	5	1	0.20	10	2	0.20	17	4	0.24
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	3	0	0.00							1	0	0.00	2	0	0.00
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	3	0	0.00							1	0	0.00	2	0	0.00
39025	SIMAZINE, COULSON CONDUCTIVITY WATER SAM	Drinking Water	4.	4	0	0.00	4	0	0.00									
39033	ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	2 &	0	0.00							1	0	0.00	1	0	0.00
39045	2,4,5-TP INCLUDES ACIDS & SALTS WATER SA	Drinking Water	50.	3	0	0.00							1	0	0.00	2	0	0.00
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	0.2	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
		Drinking Water	2.	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	15	0	0.00	10	0	0.00				2	0	0.00	3	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	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
		Drinking Water	2.	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	3.	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
		Drinking Water	0.4	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	0.2	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	15	0	0.00	10	0	0.00				2	0	0.00	3	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	12	0	0.00	10	0	0.00				1	0	0.00	1	0	0.00
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	5	0	0.00	5	0	0.00									
39720	PICLORAM IN WHOLE WATER SAMPLE	Drinking Water	500.	20	0	0.00	4	0	0.00							16	0	0.00
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	15	0	0.00	8	0	0.00				2	0	0.00	5	0	0.00
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	10	0	0.00	8	0	0.00				1	0	0.00	1	0	0.00
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	3	0	0.00							1	0	0.00	2	0	0.00
		Drinking Water	0.2	3	0	0.00							1	0	0.00	2	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	28	0	0.00	13	0	0.00	4	0	0.00	6	0	0.00	5	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	22	0	0.00	16	0	0.00				1	0	0.00	5	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	59	0	0.00	32	0	0.00	4	0	0.00	12	0	0.00	11	0	0.00
		Drinking Water	2.	59	0	0.00	32	0	0.00	4	0	0.00	12	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

EPA Water Quality Criteria Analysis for Entire THRO Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-2/14 Obs	8/01-2/14 Exceed	8/01-2/14 Prop.	2/15-3/19 Obs	2/15-3/19 Exceed	2/15-3/19 Prop.	3/20-4/30 Obs	3/20-4/30 Exceed	3/20-4/30 Prop.	5/01-7/31 Obs	5/01-7/31 Exceed	5/01-7/31 Prop.
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	20	0	0.00	13	0	0.00				3	0	0.00	4	0	0.00
		Drinking Water	2.	20	0	0.00	13	0	0.00				3	0	0.00	4	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	56	1	0.02	32	1	0.03	3	0	0.00	9	0	0.00	12	0	0.00
		Drinking Water	2.	56	3	0.05	32	3	0.09	3	0	0.00	9	0	0.00	12	0	0.00
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	31	9	0.29	31	9	0.29									

& - 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

No STORET Data Within the THRO Study Area Exist for These Groups:

Chlorophyll*

*Not A Priority Parameter

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the THRO Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	286	94	91	101	50
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	1	1	0	0	1
00440	BICARBONATE ION (MG/L AS HCO3)	198	76	61	61	49
00445	CARBONATE ION (MG/L AS CO3)	171	76	61	34	49
		656	247	213	196	149 (50)[1]

pH		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	764	417	222	125	28
00403	PH, LAB (STANDARD UNITS)	247	105	69	73	26
		1011	522	291	198	54 (52)[1]

Conductivity		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	16	0	15	1	2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	860	465	234	161	39
		876	465	249	162	41 (39)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	28	7	21	0	2
00300	OXYGEN, DISSOLVED (MG/L)	766	409	236	121	5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	204	111	87	6	2
		998	527	344	127	9 (5)[1]

Water Temperature		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	949	447	291	211	16
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	10	0	0	10	1
		959	447	291	221	17 (16)[1]

Flow		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00060	FLOW, STREAM, MEAN DAILY CFS	70	0	0	70	2
00061	FLOW, STREAM, INSTANTANEOUS CFS	320	77	111	132	4
00065	STAGE, STREAM (FEET)	71	2	21	48	2
		461	79	132	250	8 (5)[1]

[1]Since 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 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	43	0	30	13	2
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	15	0	0	15	1
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	108	34	61	13	2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	4	4	0	0	3
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	31	31	0	0	21
		201	69	91	41	29 (27)[!]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	56	0	47	9	2
00602	NITROGEN, DISSOLVED (MG/L AS N)	18	0	18	0	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	31	1	30	0	2
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17	0	17	0	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	65	34	31	0	1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	149	59	74	16	8
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	95	57	30	8	37
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	104	0	46	58	4
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	35	2	33	0	1
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	115	36	67	12	6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	102	23	57	22	8
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	71	38	32	1	3
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	26	0	24	2	3
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	27	1	26	0	1
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	28	0	11	17	2
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	22	0	14	8	13
		961	251	557	153	93 (42)[!]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	80	0	23	57	5
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	46	0	15	31	9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	199	62	111	26	5
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	119	50	62	7	4
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	112	48	35	29	5
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	4	4	0	0	3
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	42	9	15	18	3
		602	173	261	168	34 (15)[!]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	403	71	138	194	51
00945	SULFATE, TOTAL (MG/L AS SO4)	450	107	143	200	51
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	221	79	94	48	38
		1074	257	375	442	140 (51)[!]

Bacteria		Total Obs.	01/01/85 to 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	98	0	22	76	3
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	19	6	13	0	1
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	3	0	3	0	1
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	125	22	52	51	4
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	73	21	52	0	1
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	72	21	51	0	1
		390	70	193	127	11 (4)[!]

[!]Since 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 03/18/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	71	27	40	4	3	
01001	ARSENIC, SUSPENDED (UG/L AS AS)	20	0	17	3	1	
01002	ARSENIC, TOTAL (UG/L AS AS)	68	18	47	3	2	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	35	25	9	1	2	
01012	BERYLLIUM, TOTAL (UG/L AS BE)	23	0	23	0	2	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	63	25	34	4	3	
01026	CADMIUM, SUSPENDED (UG/L AS CD)	15	0	12	3	1	
01027	CADMIUM, TOTAL (UG/L AS CD)	69	18	48	3	2	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	63	25	34	4	3	
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	18	0	15	3	1	
01034	CHROMIUM, TOTAL (UG/L AS CR)	73	18	52	3	2	
01040	COPPER, DISSOLVED (UG/L AS CU)	64	25	35	4	3	
01041	COPPER, SUSPENDED (UG/L AS CU)	22	0	19	3	1	
01042	COPPER, TOTAL (UG/L AS CU)	73	18	52	3	2	
01049	LEAD, DISSOLVED (UG/L AS PB)	70	27	39	4	3	
01050	LEAD, SUSPENDED (UG/L AS PB)	19	0	16	3	1	
01051	LEAD, TOTAL (UG/L AS PB)	60	18	39	3	2	
71890	MERCURY, DISSOLVED (UG/L AS HG)	59	27	28	4	2	
71895	MERCURY, SUSPENDED (UG/L AS HG)	20	0	17	3	1	
71900	MERCURY, TOTAL (UG/L AS HG)	56	0	44	12	2	
01065	NICKEL, DISSOLVED (UG/L AS NI)	53	34	18	1	2	
01066	NICKEL, SUSPENDED (UG/L AS NI)	9	0	9	0	1	
01067	NICKEL, TOTAL (UG/L AS NI)	28	0	28	0	1	
01145	SELENIUM, DISSOLVED (UG/L AS SE)	80	36	40	4	3	
01146	SELENIUM, SUSPENDED (UG/L AS SE)	21	0	18	3	1	
01147	SELENIUM, TOTAL (UG/L AS SE)	68	18	47	3	2	
01075	SILVER, DISSOLVED (UG/L AS AG)	58	34	23	1	2	
01076	SILVER, SUSPENDED (UG/L AS AG)	10	0	10	0	1	
01077	SILVER, TOTAL (UG/L AS AG)	31	0	31	0	1	
01090	ZINC, DISSOLVED (UG/L AS ZN)	69	25	40	4	3	
01091	ZINC, SUSPENDED (UG/L ZN)	19	0	16	3	1	
01092	ZINC, TOTAL (UG/L AS ZN)	68	18	47	3	2	
00720	CYANIDE, TOTAL (MG/L AS CN)	9	0	8	1	2	
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	12	0	12	0	1	
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	3	3	0	0	1	
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	15	3	12	0	2	
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	3	3	0	0	1	
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	3	3	0	0	1	
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	3	3	0	0	1	
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	15	3	12	0	2	
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	12	0	12	0	1	
		1652	472	1087	93	84	(4)[1]

[1]Since 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	656	247	37.7	50	67.6	13.1	10/11/49-10/14/92	15.3
pH	1011	522	51.6	52	70.3	19.4	10/11/49-03/18/96	21.8
Conductivity	876	465	53.1	39	52.7	22.5	10/11/49-03/18/96	18.9
Dissolved Oxygen	998	527	52.8	5	6.8	199.6	06/26/68-03/30/94	38.7
Water Temperature	959	447	46.6	16	21.6	59.9	06/26/68-03/18/96	34.6
Flow	461	79	17.1	5	6.8	92.2	10/03/49-03/18/96	9.9
Clarity/Turbidity	201	69	34.3	27	36.5	7.4	05/11/68-10/04/94	7.6
Nitrate/Nitrogen	961	251	26.1	42	56.8	22.9	10/11/49-10/04/94	21.4
Phosphate/Phosphorus	602	173	28.7	15	20.3	40.1	05/11/68-10/04/94	22.8
Chlorophyll	0	0	0.0	0	0.0	0.0	No Data For Group	0.0
Sulfates/Total Dissolved Solids/Hardness	1074	257	23.9	51	68.9	21.1	10/11/49-08/23/95	23.4
Bacteria	390	70	17.9	4	5.4	97.5	09/25/68-03/30/94	15.3
Toxic Elements	1652	472	28.6	4	5.4	413.0	01/21/74-08/23/95	76.5

Water Quality Observations
Outside STORET Edit Criteria for THRO

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
THRO0005	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	680511		7700.0000000	121MBRCE	370003	
THRO0005	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	680610		51600.0000000	121MBRCE	370003	
THRO0005	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	680709		4700.0000000	121MBRCE	370003	
THRO0005	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	680903		6500.0000000	121MBRCE	370003	
THRO0005	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	681105		880.0000000	121MBRCE	370003	
THRO0005	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	690714		30000.0000000	121MBRCE	370003	
THRO0005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	710715	1415	5000.0000000	121MBRCE	370003	
THRO0005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	720405	1530	1425.0000000	121MBRCE	370003	
THRO0005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	740522	0845	15000.0000000	121MBRCE	370003	
THRO0005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	740812	1250	6500.0000000	121MBRCE	370003	
THRO0005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	741114	1015	1500.0000000	121MBRCE	370003	
THRO0005	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	750417	0745	2880.0000000	121MBRCE	370003	
THRO0005	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	700615	1345	2700.0000000	121MBRCE	370003	
THRO0005	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	700810	1420	1924.0000000	121MBRCE	370003	
THRO0005	00665	PHOSPHORUS, TOTAL (MG/L AS P)	680610		16.0000000	121MBRCE	370003	
THRO0005	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	700413	1340	14.4000000	121MBRCE	370003	
THRO0005	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	700615	1345	18.8000000	121MBRCE	370003	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	740522	1150	12000.0000000	112WRD	06337000	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	740717	1005	2000.0000000	112WRD	06337000	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	750611	1000	6800.0000000	112WRD	06337000	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	770412	1045	2200.0000000	112WRD	06337000	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	770712	1035	5800.0000000	112WRD	06337000	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	770914	0945	10000.0000000	112WRD	06337000	
THRO0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	771012	1505	6200.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	770412	1045	2200.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	770712	1035	5800.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	770914	0945	10000.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	771012	1505	6200.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	780712	0945	1400.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	780913	1030	9500.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790416	1345	2600.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790808	1035	1500.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	800811	1315	3900.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	810609	1010	14000.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	810811	0940	13000.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	820329	1230	3200.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	820616	1150	3300.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	820824	1110	1700.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	830830	1045	9600.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	831012	0950	1800.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	840326	1355	2900.0000000	112WRD	06337000	

Water Quality Observations
Outside STORET Edit Criteria for THRO

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	850327	1240	2400.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	850607	1035	4500.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	851022	0955	8000.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	851023	0955	8000.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	870404	1235	2900.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	870529	1010	1800.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	890411	0950	1300.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	900626	1000	4500.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	900801	1150	3200.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	910313	1030	1100.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	910828	0920	2000.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	911121	1120	1500.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	920707	1640	5700.0000000	112WRD	06337000	
THRO0006	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	930825	0940	1200.0000000	112WRD	06337000	
THRO0006	00400	PH (STANDARD UNITS)	920707	1640	0.0000000	112WRD	06337000	x
THRO0006	00403	PH, LAB, STANDARD UNITS SU	931007	1325	0.0000000	112WRD	06337000	x
THRO0006	00440	BICARBONATE ION (MG/L AS HCO3)	741009	1125	505.0000000	112WRD	06337000	
THRO0006	00440	BICARBONATE ION (MG/L AS HCO3)	741030	1215	476.0000000	112WRD	06337000	
THRO0006	00440	BICARBONATE ION (MG/L AS HCO3)	760114	1110	648.0000000	112WRD	06337000	
THRO0006	00440	BICARBONATE ION (MG/L AS HCO3)	771213	1145	470.0000000	112WRD	06337000	
THRO0006	00440	BICARBONATE ION (MG/L AS HCO3)	850827	0935	460.0000000	112WRD	06337000	
THRO0006	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	780913	1030	19.0000000	112WRD	06337000	
THRO0006	00665	PHOSPHORUS, TOTAL (MG/L AS P)	770914	0945	17.0000000	112WRD	06337000	
THRO0006	00665	PHOSPHORUS, TOTAL (MG/L AS P)	840326	1355	37.0000000	112WRD	06337000	
THRO0006	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	770914	0945	125.0000000	112WRD	06337000	
THRO0006	01007	BARIUM, TOTAL (UG/L AS BA)	780913	1030	3000.0000000	112WRD	06337000	
THRO0006	01007	BARIUM, TOTAL (UG/L AS BA)	810811	0940	2200.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	750611	1000	410000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	770412	1045	110000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	770914	0945	83000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	771012	1505	240000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	780619	1100	62000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	780913	1030	570000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	790416	1345	92000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	790808	1035	77000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	800811	1315	170000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	800909	1000	170000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	810811	0940	210000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	820329	1230	160000.0000000	112WRD	06337000	
THRO0006	01045	IRON, TOTAL (UG/L AS FE)	820824	1110	67000.0000000	112WRD	06337000	
THRO0006	01055	MANGANESE, TOTAL (UG/L AS MN)	750611	1000	11000.0000000	112WRD	06337000	

Water Quality Observations
Outside STORET Edit Criteria for THRO

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
THRO0006	01055	MANGANESE, TOTAL (UG/L AS MN)	770712	1035	6100.0000000	112WRD	06337000	
THRO0006	01055	MANGANESE, TOTAL (UG/L AS MN)	770914	0945	7200.0000000	112WRD	06337000	
THRO0006	01055	MANGANESE, TOTAL (UG/L AS MN)	780913	1030	17000.0000000	112WRD	06337000	
THRO0006	01105	ALUMINUM, TOTAL (UG/L AS AL)	770412	1045	48000.0000000	112WRD	06337000	
THRO0006	01105	ALUMINUM, TOTAL (UG/L AS AL)	770712	1035	110000.0000000	112WRD	06337000	
THRO0006	01105	ALUMINUM, TOTAL (UG/L AS AL)	770914	0945	220000.0000000	112WRD	06337000	
THRO0006	01105	ALUMINUM, TOTAL (UG/L AS AL)	771012	1505	120000.0000000	112WRD	06337000	
THRO0006	01105	ALUMINUM, TOTAL (UG/L AS AL)	790808	1035	41000.0000000	112WRD	06337000	
THRO0006	01105	ALUMINUM, TOTAL (UG/L AS AL)	800909	1000	63000.0000000	112WRD	06337000	
THRO0006	60050	ALGAE, TOTAL (CELLS/ML)	810714	1030	900000.0000000	112WRD	06337000	
THRO0006	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	840326	1355	110.0000000	112WRD	06337000	
THRO0007	00440	BICARBONATE ION (MG/L AS HCO3)	881130		641.0000000	11NPSWRD	THRO_SW27	
THRO0008	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	861030		1120.0000000	11NPSWRD	THRO_SW24	
THRO0008	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	881130		1150.0000000	11NPSWRD	THRO_SW24	
THRO0008	00440	BICARBONATE ION (MG/L AS HCO3)	861030		1370.0000000	11NPSWRD	THRO_SW24	
THRO0008	00440	BICARBONATE ION (MG/L AS HCO3)	881130		1380.0000000	11NPSWRD	THRO_SW24	
THRO0009	22703	URANIUM, NATURAL, DISSOLVED	840402	1230	4000.0000000	112WRD	465744103203701	
THRO0014	00440	BICARBONATE ION (MG/L AS HCO3)	861030		823.0000000	11NPSWRD	THRO_SW16	
THRO0017	00440	BICARBONATE ION (MG/L AS HCO3)	861030		988.0000000	11NPSWRD	THRO_SW17	
THRO0021	00440	BICARBONATE ION (MG/L AS HCO3)	861030		508.0000000	11NPSWRD	THRO_SW22	
THRO0021	00440	BICARBONATE ION (MG/L AS HCO3)	881130		506.0000000	11NPSWRD	THRO_SW22	
THRO0022	00440	BICARBONATE ION (MG/L AS HCO3)	881130		626.0000000	11NPSWRD	THRO_SW26	
THRO0023	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	861030		1570.0000000	11NPSWRD	THRO_SW23	
THRO0023	00440	BICARBONATE ION (MG/L AS HCO3)	861030		1910.0000000	11NPSWRD	THRO_SW23	
THRO0023	00440	BICARBONATE ION (MG/L AS HCO3)	881130		471.0000000	11NPSWRD	THRO_SW23	
THRO0023	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	861030		4080.0000000	11NPSWRD	THRO_SW23	
THRO0026	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	861030		1580.0000000	11NPSWRD	THRO_SW15	
THRO0026	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	881130		1590.0000000	11NPSWRD	THRO_SW15	
THRO0026	00440	BICARBONATE ION (MG/L AS HCO3)	861030		1840.0000000	11NPSWRD	THRO_SW15	
THRO0026	00440	BICARBONATE ION (MG/L AS HCO3)	881130		1830.0000000	11NPSWRD	THRO_SW15	
THRO0026	00931	SODIUM ADSORPTION RATIO	861030		80.2000000	11NPSWRD	THRO_SW15	
THRO0026	00931	SODIUM ADSORPTION RATIO	881130		76.8000000	11NPSWRD	THRO_SW15	
THRO0026	00945	SULFATE, TOTAL (MG/L AS SO4)	861030		3440.0000000	11NPSWRD	THRO_SW15	
THRO0026	00945	SULFATE, TOTAL (MG/L AS SO4)	881130		3940.0000000	11NPSWRD	THRO_SW15	
THRO0026	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	861030		6640.0000000	11NPSWRD	THRO_SW15	
THRO0026	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	881130		7510.0000000	11NPSWRD	THRO_SW15	
THRO0028	00440	BICARBONATE ION (MG/L AS HCO3)	861030		984.0000000	11NPSWRD	THRO_SW28	
THRO0028	00440	BICARBONATE ION (MG/L AS HCO3)	881130		949.0000000	11NPSWRD	THRO_SW28	
THRO0028	00931	SODIUM ADSORPTION RATIO	861030		69.4000000	11NPSWRD	THRO_SW28	
THRO0028	00931	SODIUM ADSORPTION RATIO	881130		71.2000000	11NPSWRD	THRO_SW28	
THRO0029	00440	BICARBONATE ION (MG/L AS HCO3)	881130		665.0000000	11NPSWRD	THRO_SW25	

Water Quality Observations
Outside STORET Edit Criteria for THRO

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
THRO0032	00440	BICARBONATE ION (MG/L AS HCO3)	861030		660.0000000	11NPSWRD	THRO_SW21	
THRO0034	00440	BICARBONATE ION (MG/L AS HCO3)	761115	1130	638.0000000	112WRD	465824103293300	
THRO0035	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	670922		1480.0000000	112WRD	470114103294601	
THRO0035	00440	BICARBONATE ION (MG/L AS HCO3)	670922		1800.0000000	112WRD	470114103294601	
THRO0035	00945	SULFATE, TOTAL (MG/L AS SO4)	670922		5100.0000000	112WRD	470114103294601	
THRO0038	00440	BICARBONATE ION (MG/L AS HCO3)	861030		490.0000000	11NPSWRD	THRO_SW12	
THRO0038	00440	BICARBONATE ION (MG/L AS HCO3)	881130		501.0000000	11NPSWRD	THRO_SW12	
THRO0039	00945	SULFATE, TOTAL (MG/L AS SO4)	670901		2805.0000000	112WRD	465301103304701	
THRO0042	00440	BICARBONATE ION (MG/L AS HCO3)	861030		946.0000000	11NPSWRD	THRO_06	
THRO0043	00440	BICARBONATE ION (MG/L AS HCO3)	761115	1230	627.0000000	112WRD	470331103311200	
THRO0044	00945	SULFATE, TOTAL (MG/L AS SO4)	690724		3900.0000000	112WRD	470101103313101	
THRO0045	00440	BICARBONATE ION (MG/L AS HCO3)	881130		557.0000000	11NPSWRD	THRO_SW18	
THRO0046	00440	BICARBONATE ION (MG/L AS HCO3)	491027		530.0000000	112WRD	06336000	
THRO0046	00440	BICARBONATE ION (MG/L AS HCO3)	491111		459.0000000	112WRD	06336000	
THRO0046	00440	BICARBONATE ION (MG/L AS HCO3)	510109		502.0000000	112WRD	06336000	
THRO0047	00440	BICARBONATE ION (MG/L AS HCO3)	761117		668.0000000	112WRD	465528103315401	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	790123	1400	612.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	810427	1700	496.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	811006	1630	475.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	830713	0830	633.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	831006	1446	475.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	850107	1600	540.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	851001	1530	479.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	860108	1430	555.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	870107	1400	529.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	881017	1450	459.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	891018	1346	498.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	920403	1100	489.0000000	21NDHDWQ	380022	
THRO0050	00440	BICARBONATE ION (MG/L AS HCO3)	921014	1845	532.0000000	21NDHDWQ	380022	
THRO0050	00665	PHOSPHORUS, TOTAL (MG/L AS P)	920708	1415	10.6000000	21NDHDWQ	380022	
THRO0053	00440	BICARBONATE ION (MG/L AS HCO3)	861030		794.0000000	11NPSWRD	THRO_SW13	
THRO0053	00440	BICARBONATE ION (MG/L AS HCO3)	881130		718.0000000	11NPSWRD	THRO_SW13	
THRO0056	00405	CARBON DIOXIDE (MG/L AS CO2)	670927		189.0000000	112WRD	470831103323001	
THRO0056	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	670927		1540.0000000	112WRD	470831103323001	
THRO0056	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	671004		4000.0000000	112WRD	470831103323001	
THRO0056	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	690617		1410.0000000	112WRD	470831103323001	
THRO0056	00440	BICARBONATE ION (MG/L AS HCO3)	670927		1875.0000000	112WRD	470831103323001	
THRO0056	00440	BICARBONATE ION (MG/L AS HCO3)	671004		4881.0000000	112WRD	470831103323001	
THRO0056	00440	BICARBONATE ION (MG/L AS HCO3)	690617		1716.0000000	112WRD	470831103323001	
THRO0056	00931	SODIUM ADSORPTION RATIO	671004		90.0000000	112WRD	470831103323001	
THRO0056	00931	SODIUM ADSORPTION RATIO	690617		51.0000000	112WRD	470831103323001	

Water Quality Observations
Outside STORET Edit Criteria for THRO

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
THRO0056	00945	SULFATE, TOTAL (MG/L AS SO4)	670927		4125.0000000	112WRD	470831103323001	
THRO0056	00945	SULFATE, TOTAL (MG/L AS SO4)	690617		4350.0000000	112WRD	470831103323001	
THRO0059	00440	BICARBONATE ION (MG/L AS HCO3)	861030		484.0000000	11NPSWRD	THRO_SW06	
THRO0060	00440	BICARBONATE ION (MG/L AS HCO3)	881130		729.0000000	11NPSWRD	THRO_SW29	
THRO0061	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	861030		1020.0000000	11NPSWRD	THRO_SW01	
THRO0061	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	881130		1030.0000000	11NPSWRD	THRO_SW01	
THRO0061	00440	BICARBONATE ION (MG/L AS HCO3)	861030		1130.0000000	11NPSWRD	THRO_SW01	
THRO0061	00440	BICARBONATE ION (MG/L AS HCO3)	881130		1030.0000000	11NPSWRD	THRO_SW01	
THRO0061	00445	CARBONATE ION (MG/L AS CO3)	881130		110.0000000	11NPSWRD	THRO_SW01	
THRO0061	00931	SODIUM ADSORPTION RATIO	861030		74.0000000	11NPSWRD	THRO_SW01	
THRO0061	00931	SODIUM ADSORPTION RATIO	881130		71.9000000	11NPSWRD	THRO_SW01	
THRO0062	00440	BICARBONATE ION (MG/L AS HCO3)	761115	1345	595.0000000	112WRD	470732103331700	
THRO0072	00440	BICARBONATE ION (MG/L AS HCO3)	690618		642.0000000	112WRD	465006103353001	
THRO0072	00945	SULFATE, TOTAL (MG/L AS SO4)	690618		2900.0000000	112WRD	465006103353001	
THRO0073	00440	BICARBONATE ION (MG/L AS HCO3)	671030		503.0000000	112WRD	465527103353101	
THRO0074	00440	BICARBONATE ION (MG/L AS HCO3)	690618		744.0000000	112WRD	465104103353901	
THRO0074	00945	SULFATE, TOTAL (MG/L AS SO4)	690618		3400.0000000	112WRD	465104103353901	
THRO0075	00440	BICARBONATE ION (MG/L AS HCO3)	770811	1600	869.0000000	112WRD	471309103372901	
THRO0075	00931	SODIUM ADSORPTION RATIO	770811	1600	63.0000000	112WRD	471309103372901	
THRO0076	00440	BICARBONATE ION (MG/L AS HCO3)	761115	1530	583.0000000	112WRD	471903103381900	

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) THROTABS.ZIP

This compressed file contains all the tables presented in the report. The files compressed into this file include:

(a) THROSITE.DOC - Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.

(b) THROAGNC.DOC - Contacts for agencies whose data were retrieved within the study area.

(c) THROAGNQ.DOC - Number of stations, observations, and parameters retrieved by agency code within the study area and park.

(d) THROOV0.DOC - Overview of park and retrieved data.

(e) THROOV1.DOC - Station period of record table.

(f) THROOV2.DOC - Parameter period of record table.

(g) THROOV3.DOC - Station/parameter period of record table.

(h) THROINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.

(i) THROSEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.

(j) THROEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.

(k) THROIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.

(l) THROBAD.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 THROOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\THROOV1.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) THROFIGS.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 THRO0001. 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 THRO0001) is in the subirectory 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) THROPARM.ZIP

This file compresses THROPARM.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) THROSITE.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) THROWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

(b) THROIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.

(c) THRODRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.

(d) THROGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.

(e) THRODAMS.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) THROMISC.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) THROEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) THROTOC.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) THROREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.

(f) THROWQ - 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 (THROWQA, THROWQB, THROWQC, etc.) and the index map name will end with an ampersand (&).

(g) THROIDG - 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 (THROIDGA, THROIDGB, THROIDGC, 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) THROSEHY - 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 THROFIGS.ZIP and THROTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in THROMISC.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) THRORF3.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) THROWQMW.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: THROPARM.DBF in THROPARM.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: THROPARM.DBF in THROPARM.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: THROPARM.DBF in THROPARM.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: THROWQ.DBF in THROSITE.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: THROWQ.DBF in THROSITE.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: THROIFD.DBF in THROSITE.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: THROIFD.DBF in THROSITE.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: THROIFD.DBF in THROSITE.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.

Drinking Water Intakes File: THRODRIN.DBF in THROSITE.ZIP				
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)

Drinking Water Intakes File: THRODRIN.DBF in THROSITE.ZIP				
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.)

Drinking Water Intakes File: THRODRIN.DBF in THROSITE.ZIP				
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.

Water Gage File: THROGAGE.DBF in THROSITE.ZIP				
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

Water Gage File: THROGAGE.DBF in THROSITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')
FDFF	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: THRODAMS.DBF in THROSITE.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: THRODAMS.DBF in THROSITE.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: THRODAMS.DBF in THROSITE.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: THRODAMS.DBF in THROSITE.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.

RF3 Structure File: 12345678.RF3 and 12345678.DBF in THRORF3.ZIP				
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 THRORF3.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
LL1KEY1	358	367	10	Starting DLG LL Key1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in THRORF3.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)
UPDTCD1	596	603	8	Update Type Code #1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in THRORF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
UPDTSRC1	604	611	8	Update Source #1
UPDATE2	612	617	6	Update Date #2 (mmddyy)
UPDTCD2	618	625	8	Update Type Code#2
UPDTSRC2	626	633	8	Update Source #2
UPDATE3	634	639	6	Update Date #3 (mmddyy)
UPDTCD3	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.

RF3 Trace File: 12345678.TRC in THRORF3.ZIP				
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.

Catalog Unit Boundary File: 12345678.CUB in THRORF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS, ...
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.

Encyclopedia File: WRD File For Internal Use Only				
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,35C48HR	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 DDMMSS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS
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 EROR 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 DEVLP
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 Summary[1]

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[t]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[t]	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

[1]Sources: (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[s]			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250[s]			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250[s]			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250[s]			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+	1300a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18+	1300a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82+	15a	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		0.020c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100s	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		20r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000r			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		8.0r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0r			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		20c			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20c			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20c			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020c			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20c			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		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0n		1000b	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, EIJKMAN, 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[t]			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100[t]			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100[t]			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[t]			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100[t]			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100[t]			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[t]			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[t]			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100[t]			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[t]			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100[t]			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100[t]			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900[*]	100[t]			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900[*]	100[t]			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100[t]			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100[t]			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	30p		7.7p		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30p		7.7p		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30p		7.7p		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		DURSBAN, 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				UNKNOWNS 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		250s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20c			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+	1300a	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 $CaCO_3$ 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.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

[c]A Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

[n]Total coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

[p]Proposed Criterion.

[r]Average annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

[s]EPA National Secondary Drinking Water Regulation, 40 CFR 143.

[t]The maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

[u]Coldwater 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 Group[1]**	**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)	-

[1]Tide 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 (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	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, UNIONZED (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 NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	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	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE 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-CHLOROETHYLVINYL 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-HN03-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

Literature Cited

Code of Federal Regulations. 1994. Protection of Environment. 40 CFR Parts 100 to 149. Revised as of July 1, 1994. Published by the Office of the Federal Register, National Archives and Records Administration. U.S. Government Printing Office, Washington, D.C. 20402.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

GKY and Associates. 1990. Dam Inventory Database and Retrieval Software: Final Report. U.S. Environmental Protection Agency, Water Quality Analysis Branch. Under Contract #68-03-3339.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

National Park Service. 1993. Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service. National Park Service, Washington Office, Servicewide Inventory and Monitoring Program, Washington, D.C. Unpublished. 17p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. STORET User Handbook. U.S. Environmental Proteciton Agency, Office of Water, Washington, D.C. 20460.

U.S. Environmental Protection Agency. 1992. Office of Water Environmental and Program Information Systems Compendium. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 152p.

U.S. Environmental Protection Agency. 1993. Technical Description of the Reach File. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 23p.

U.S. Geological Survey. 1982. A U.S. Geological Survey Data Standard: Codes for the Identification of Hydrologic Units in the United States and Caribbean Outlying Areas. Geological Survey Circular 878-A. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 115p.

U.S. Geological Survey 1992. Hydro-Climatic Data Network: A U.S. Geological Survey Streamflow Data Set for the United States for the Study of Climate Variations 1874-1988. Open File Report 92-129/USGS Water Supply Paper No. 2406. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 193p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Appendix I

Selected General Water Quality References

American Public Health Association. 1989. Standard Methods for the Examination of Water and Wastewater (17th ed.). Washington, D.C. 1476p.

Drever, J. I. 1982. The Geochemistry of Natural Waters. Prentice-Hall, Inc., Englewood Cliffs, NJ. 388p.

Dunne, T. and L. B. Leopold. 1978. Water in Environmental Planning. W.H. Freeman and Company, San Francisco, CA. 818p.

Everett, L. G. 1980. Groundwater Monitoring. General Electric Co., Schenectady, NY. 440p.

Fetter, C. W. 1988. Applied Hydrogeology (2nd ed.). MacMillan Publishing Co., New York, NY. 592p.

Flora, M. D., T. E. Ricketts, J. Wilson, and S. Kunkle. 1984. Water Quality Criteria: An Overview for Park Natural Resource Specialists. WRFSL Report No. 84-4. National Park Service, Water Resources Field Support Laboratory, Fort Collins, CO. 46p.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

Hem, J. D. 1985. Study and Interpretation of the Chemical Characteristics of Natural Water (3rd ed.). U.S. Geological Survey Water-Supply Paper 2254. U.S. Government Printing Office, Washington, D.C. 263p.

Kunkle, S., W. S. Johnson, and M. Flora. 1987. Monitoring Stream Water Quality for Land-Use Impacts: A Training Manual for Natural Resource Management Specialists. Water Resources Division, National Park Service, Fort Collins, CO. 102p.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

Merritt, R. W., and K. W. Cummins (eds.). 1984. An Introduction to the Aquatic Insects of North America (2nd ed.). Kendall/Hunt Publishing Co., Dubuque, IA. 44p.

Morel, F. M. 1983. Principles of Aquatic Chemistry. John Wiley & Sons, Inc., New York, NY. 446p.

Nielsen, D. M. (ed.). 1991. Practical Handbook of Ground-Water Monitoring. Lewis Publishers, Inc. Chelsea, MI. 717p.

Ponce, S. L. 1980a. Statistical Methods Commonly Used in Water Quality Data Analysis. WSDG Technical Paper WSDG-TP-00001. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 136p.

Ponce, S. L. 1980b. Water Quality Monitoring Programs. WSDG Technical Paper WSDG-TP-00002. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 68p.

Rand, G. M. and S. R. Petrocelli (eds.). 1985. Fundamentals of Aquatic Toxicology. Hemisphere Publishing Co., New York, NY. 666p.

Rantz, S. E. and others. 1982. Measurement and Computation of Streamflow: Volume 1. Measurement of Stage and Discharge. Volume 2. Computation of Discharge. U.S. Department of the Interior, Geological Survey Water Supply Paper 2175. 631p.

Stednick, J.D. and D. M. Gilbert. 1998. Water Quality Inventory Protocol: Riverine Environments. National Park Service, Water Resources Division Technical Report NPS/NRWRD/NRTR-98/177. Fort Collins, CO. 103p.

Stednick, J. D. 1991. Wildland Water Quality Sampling and Analysis. Academic Press, Inc., San Diego, CA. 217p.

United Nations Educational, Scientific and Cultural Organization (UNESCO). 1978. Water Quality Surveys: A Guide for the Collection and Interpretation of Water Quality Data. IHD-WHO Working Group on the Quality of Water, Paris, France. 350p.

U.S. Department of the Interior. 1977. National Handbook of Recommended Methods for Water-Data Acquisition. U.S. Geological Survey, Office of Water-Data Coordination, Reston, VA. 990p.

U.S. Environmental Protection Agency. 1978. Microbiological Methods for Monitoring the Environment: Water and Wastes. R. H. Border, J. A. Winter, and P. W. Scarpino. EPA-600/8-78-017. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 338p.

U.S. Environmental Protection Agency. 1979b. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. (Revised March 1983). Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 460p.

U.S. Environmental Protection Agency. 1983. Water Quality Standards Handbook. Office of Water Regulations and Standards, Washington, D.C. 218p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish. J. L. Plafkin, M. T. Barbour, K. D. Porter, S. K. Gross, and R. M. Hughes. EPA-444/4-89-001. Office of Water Regulations and Standards, Assessment and Watershed Protection Division, Washington, D.C. 162p.

U.S. Environmental Protection Agency. 1990. Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters. D. J. Klemm, P. A. Lewis, F. Fulk, and J. M. Lazorchak. EPA-600/4-90-030. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 256p.

U.S. Environmental Protection Agency. 1991a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed.). C. I. Weber, ed. EPA-600/4-90-027. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 293p.

U.S. Environmental Protection Agency. 1991b. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. L. H. MacDonald, A. W.Smart, and R. C. Wissmar. EPA-910/9-91-001. Region 10, Seattle, WA. 162p.

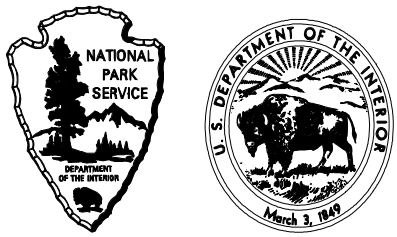
U.S. Environmental Protection Agency. 1993. Guide to Federal Water Quality Programs and Information. T. Stuart and N. P. Ross. EPA-230-B-93-001. Office of Strategic Planning and Environmental Data, Environmental Statistics and Information Division. Washington, D.C. 194p.

Verschueren, K. 1983. Handbook of Environmental Data on Organic Chemicals (2nd ed.). Van Nostrand Reinhold Co., New York, NY. 1310p.

Viessman W. and M. J. Hammer. 1985. Water Supply and Pollution Control (4th ed.). Harper and Row, Publishers, Inc. New York, NY. 797p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Wetzel, R. G. 1983. Limnology (2nd ed.). Sanders College Publishing, Philadelphia, PA. 767p.



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