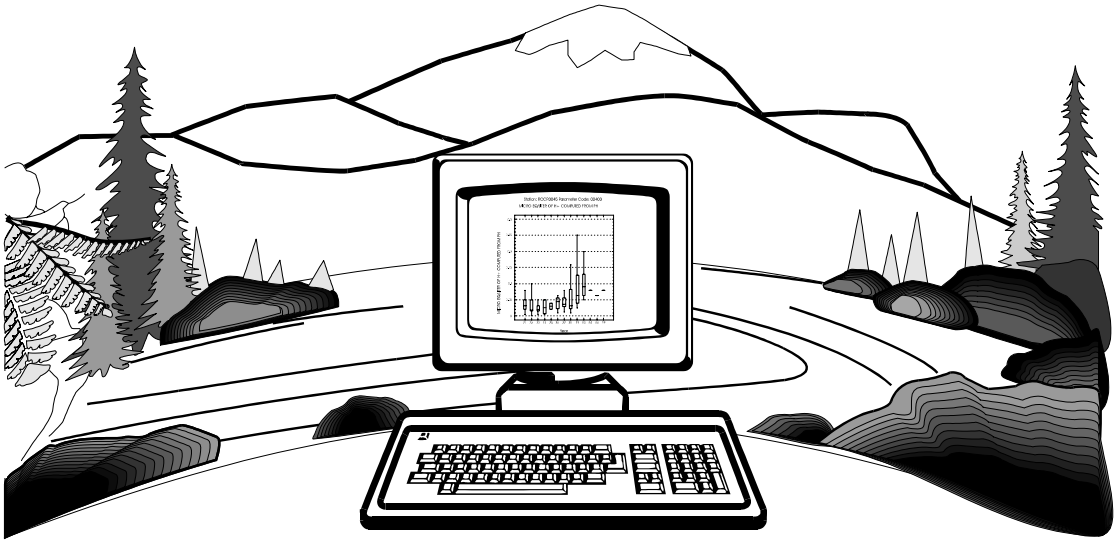
Baseline Water Quality Data

Inventory and Analysis

Harpers Ferry National Historical 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

HARPERS FERRY NATIONAL HISTORICAL PARK

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-97/98

MARCH 1997

United States Department of the Interior
National Park Service
Washington, D.C.

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Harpers Ferry National Historical Park (HAFE) 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 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 24 industrial/municipal dischargers; four drinking water intakes; 13 active or inactive U. S. Geological Survey (USGS) or U. S. National Weather Service stream gages; and six water impoundments. The results of the STORET retrieval for the study area yielded 66,472 observations for 867 separate parameters collected by nine federal and state government agencies and one interstate commission at 120 monitoring stations. Of the 120 stations, 26 stations within the study area (none within the park boundary) were established but contained no data. Only 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. Twenty-five stations within the study area (one 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 one station yielding the longer-term record within the park boundary is the Shenandoah River At Harpers Ferry, W. Va. (HAFE 0052). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Shenandoah R At Millville, Wv (HAFE 0072); (2) Potomac R At Shepherdstown, Wv (HAFE 0080); (3) Shenandoah River Near Meyerstown, W. Va. (HAFE 0100); (4) Antietam C Nr Sharpsburg, Md (HAFE 0033); and (5) Potomac River At Gag. Sta. Be. Br. On Rt. 34 (HAFE 0078)[†].

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 HAFE water quality criteria screen found 21 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, chlorine, cyanide, antimony, cadmium, chromium, copper, lead, selenium, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Fluoride, nitrate, nitrite, nitrite plus nitrate, antimony, beryllium, cadmium, chromium, lead, and nickel 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 1,732 times at 78 monitoring stations from 1946 to 1996. Of the 1,613 observations used in the criteria analysis (see Remark Code and Media Type Screens in the Methodology for explanation), one observation at each of seven stations (HAFE 0019, HAFE 0023, HAFE 0037, HAFE 0039, HAFE 0040, HAFE 0052, HAFE 0076) were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life.

The pH was measured 2,947 times at 87 monitoring stations from 1945 to 1996. Of the 2,826 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 122 observations at 13 stations were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). One-hundred-three observations were greater than or equal to pH 9.0 and 19 observations were less than or equal to pH 6.5. The highest reported pH was 9.8 SU in the Shenandoah River near Meyerstown, WV (HAFE 0100) in July 1979. The lowest pH of 6.0 SU was reported in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) in March and December 1961.

Turbidity was measured 1,281 times at 32 monitoring stations from 1954 to 1996. Of the 1,243 observations used in the criteria analysis (see Media Type Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 58 observations at 14 stations throughout the study area exceeded the WRD screening criterion of 50 turbidity units (JTU/FTU/NTU). The highest reported value was 3,500 FTU in the Potomac River at Shepherdstown, WV (HAFE 0080) in November 1985.

Total coliform concentrations were measured 878 times at 17 monitoring stations from 1966 through 1995. Of the 762 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 409 observations at 16 stations exceeded the WRD bathing water criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml). The highest reported concentration of 46,000 MPN/100 ml occurred in Antietam Creek below the Burnside Bridge near Sharpsburg, MD (HAFE 0034) in August 1968 and in the Potomac River below the Route 34 Bridge, MD (HAFE 0083) in August 1977. Fecal coliform concentrations were determined 1,201 times at 35 monitoring stations from 1946 to 1996. Of the 1,086 observations used in the criteria analysis (see Remark Code and Media Type Screens in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 376 observations at 30 stations throughout the study area exceeded the WRD bathing water criterion of 200 CFU/MPN/100 ml. The highest reported concentration of at least 2,400,000 CFU/100 ml occurred twice in Evitts Run below Charles Town, WV (HAFE 0097) in October 1949.

Nitrate concentrations (including dissolved and total as N and as NO_3) were measured 1,051 times at 47 monitoring stations from 1933 to 1996. Of the 941 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), five concentrations at three stations (HAFE 0041, HAFE 0045, HAFE 0100) exceeded the drinking water criterion of 10 mg/L for concentrations as N and no observations exceeded the criterion of 44 mg/L for concentrations as NO_3. The highest reported concentration of 19.9 mg/L occurred in the Shenandoah River near Meyerstown, WV (HAFE 0100) in September 1974. The other four concentrations exceeding the criterion, ranging from 10 mg/L to 16 mg/L, occurred at two stations in Mumma Spring in Antietam National Battlefield, MD (HAFE 0041 and HAFE 0045) from May 1988 through June 1988.

Nitrite concentrations (including dissolved and total as N and dissolved as NO_2) were measured 732 times at 37 monitoring stations from 1970 to 1996. Of the 622 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), three total concentrations of 4.3 mg/L, 2.8 mg/L, and 2.2 mg/L collected at Harpers Ferry Spring, WV (HAFE 0060) exceeded the drinking water criterion of 1.0 mg/L from March 1993 through October 1993.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 1,075 times at 58 monitoring stations from 1969 through 1996. Of the 1,039 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), two concentrations of 10.4 mg/L and 10.2 mg/L from a spring which flows into Evitts Run, WV (HAFE 0107) exceeded the drinking water criterion of 10 mg/L in December 1993.

Total residual chlorine concentrations were measured five times at one monitoring station in the Potomac River at the Route 340 Bridge, VA-MD Line (HAFE 0019) from 1976 through 1978. One concentration of 0.5 mg/L and two concentrations of 0.2 mg/L exceeded the acute freshwater criterion of 0.019 mg/L from May 1978 through July 1978.

Total cyanide concentrations were measured 93 times at five monitoring stations in Antietam Creek (HAFE 0033), the Shenandoah River (HAFE 0052, HAFE 0072, HAFE 0100), and the Potomac River (HAFE 0080) from 1960 through 1984. One concentration of 0.040 mg/L in Antietam Creek near Sharpsburg, MD (HAFE 0033) exceeded the acute freshwater criterion of 0.022 mg/L in May 1973.

Fluoride concentrations (including dissolved and total) were measured 718 times at 23 monitoring stations from 1957 through 1995. Two total concentrations in the Shenandoah River at Harper's Ferry, WV (HAFE 0052) and one total concentration in the Shenandoah River near Meyerstown, WV (HAFE 0100) exceeded the drinking water criterion of 4.0 mg/L. The highest reported concentration was 14 mg/L in the Shenandoah River at Harper's Ferry (HAFE 0052) in March 1984.

Total antimony concentrations were measured 30 times at three monitoring stations in the Shenandoah River (HAFE 0052, HAFE 0100) and Harpers Ferry Spring (HAFE 0060) from 1979 through 1995. Fourteen concentrations in the Shenandoah River near Meyerstown, WV (HAFE 0100) and Harpers Ferry, WV (HAFE 0052) exceeded the drinking water criterion of 6 micrograms per liter (µg/L). Seven of these 14 concentrations also exceeded the acute freshwater criterion of 88 µg/L. The highest reported concentration of 160 µg/L occurred in the Shenandoah River near Meyerstown, WV (HAFE 0100) in March 1984.

Beryllium concentrations (including dissolved and total) were measured 78 times at six monitoring stations (HAFE 0001, HAFE 0026, HAFE 0046, HAFE 0060, HAFE 0072, HAFE 0080) from 1982 through 1995. One total concentration of 5.0 µg/L at Harpers Ferry Spring, WV (HAFE 0060) exceeded the drinking water criterion of 4.0 µg/L in May 1995.

Cadmium concentrations (including dissolved, suspended, and total) were measured 537 times at 34 monitoring stations from 1968 to 1996. Of the 511 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 17 concentrations at four stations in the Shenandoah River (HAFE 0052, HAFE 0072, HAFE 0100) and the Potomac River (HAFE 0080) exceeded the acute freshwater criterion of 3.9 µg/L. Ten of these 17 concentrations also exceeded the drinking water criterion of 5.0 µg/L. The highest reported value of 12 µg/L occurred in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) in November 1975. Approximately 52 percent of the observations exceeding the criteria were reported in the Shenandoah River near Meyerstown, WV (HAFE 0100) from October 1972 through March 1981.

Chromium concentrations (including dissolved, suspended, hexavalent, and total) were measured 657 times at 31 monitoring stations from 1968 to 1996. Two hexavalent concentrations of 30 µg/L and 100 µg/L in the Shenandoah River near Meyerstown, WV (HAFE 0100) exceeded the acute freshwater criterion of 16 µg/L in September 1968 and December 1970, respectively. One of these two hexavalent concentrations also equaled the drinking water criterion of 100 µg/L. In addition, one total concentration of 560 mg/L reported in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) exceeded the drinking water criterion of 100 µg/L in June 1976.

Copper concentrations (including dissolved, suspended, and total) were measured 365 times at 35 monitoring stations from 1959 to 1996. Of the 364 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 13 concentrations at nine stations (HAFE 0007, HAFE 0019, HAFE 0033, HAFE 0052, HAFE 0057, HAFE 0060, HAFE 0072, HAFE 0080, HAFE 0100) exceeded the acute freshwater criterion of 18 µg/L. The highest reported value was 45 µg/L in the Shenandoah River at Millville, WV (HAFE 0072) in November 1981.

Lead concentrations (including dissolved, suspended, and total) were measured 578 times at 34 monitoring stations from 1967 to 1996. Eighty-two concentrations at seven stations (HAFE 0004, HAFE 0019, HAFE 0033, HAFE

0052, HAFE 0072, HAFE 0080, HAFE 0100) exceeded the drinking water criterion of 15 µg/L. Two of these 82 concentrations also exceeded the acute freshwater criterion of 82 µg/L. The highest reported value of 152 µg/L occurred in the Shenandoah River near Meyerstown, WV (HAFE 0100) in April 1971. Approximately 51 percent of the concentrations exceeding the criteria occurred in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) from May 1968 through May 1981.

Nickel concentrations (including dissolved, suspended, and total) were measured 293 times at 29 monitoring stations from 1973 to 1996. One total concentration of 180 µg/L in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) exceeded the drinking water criterion of 100 µg/L in June 1967.

Selenium concentrations (including dissolved, suspended, and total) were measured 244 times at 19 monitoring stations from 1975 through 1995. One total concentration of 23 µg/L reported in Piney Run at Route 671 (HAFE 0026) exceeded the acute freshwater criterion of 20 µg/L in August 1994.

Silver concentrations (including dissolved, suspended, and total) were measured 327 times at 18 monitoring stations from 1968 through 1995. Of the 313 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide to Water Quality Results for explanation), 11 total concentrations at two stations (HAFE 0052 and HAFE 0100) exceeded the acute freshwater criterion of 4.1 µg/L. Six of these 11 concentrations, ranging from 8 µg/L to 12 µg/L, were reported in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) from January 1976 through February 1978. The other five concentrations exceeding the criterion, ranging from 8 µg/L to 23 µg/L, occurred in the Shenandoah River near Meyerstown, WV (HAFE 0100) from January 1976 through August 1977.

Zinc concentrations (including dissolved, suspended, and total) were measured 380 times at 35 monitoring stations from 1959 to 1996. Twenty-two concentrations at six stations (HAFE 0033, HAFE 0052, HAFE 0057, HAFE 0067, HAFE 0072, HAFE 0100) exceeded the acute freshwater criterion of 120 µg/L. Seventy-three percent of the observations exceeding this criterion occurred in the Shenandoah River at Harpers Ferry, WV (HAFE 0052) and near Meyerstown, WV (HAFE 0100), including the highest reported value of 2,250 µg/L at Harpers Ferry, WV (HAFE 0052) in September 1982.

The IDEA conducted for HAFE indicates that STORET data exist for all 13 Level I parameter groups in the study area. At least 25 percent of the observations for all parameter groups were recorded since 1985. The Conductivity, Phosphorous, and Chlorophyll groups have at least 50 percent of their observations recorded since 1985. Data for four groups (Flow, Chlorophyll, Bacteria, and Toxic Elements) were recorded at less than half of the 94 monitoring stations with data. Relative to other parameter groups, data were limited for the group Chlorophyll. Results for 118 of the 126 EPA priority toxic pollutants (consisting of inorganic and organic parameters, metals, and pesticides) were retrieved from STORET.

Surface water resources in the HAFE study area include the Potomac and Shenandoah Rivers; Chesapeake and Ohio Canal; and numerous streams and springs. The data inventories and analyses contained in this report indicate that surface waters within the study area are generally of good quality with some impacts from human activities. Potential sources of contaminants include municipal and industrial wastewater discharges, mine drainage, agricultural runoff, stormwater runoff, atmospheric deposition, and recreational use.

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INTRODUCTION

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

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

Goal

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

Purpose

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

Objectives

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

1. Retrieve water quality and related data from the EPA's STORET and other database systems;

2. Develop a complete inventory of all retrieved data;

3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;

4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;

5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and

6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

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

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

Caveats

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

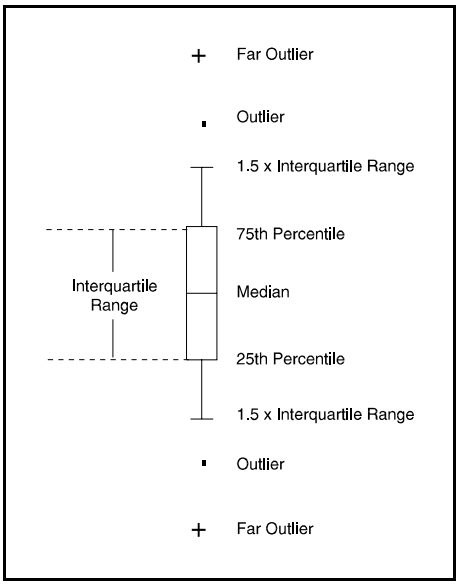
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 HAFE

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:	175462	2312
# STORET Stations:	120	3
# Stations With No Data:	26	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	25	1
Date of STORET Retrieval:	08/22/96	08/22/96
Period of Record:	05/16/33-08/13/96	09/18/46-06/17/96
# Parameters Measured:	867	110
# Water Quality Observations:	66472	12500
# Industrial/Municipal Facilities:	24	1
# Drinking Water Intakes:	4	2
# Water Gages:	13	0
# Water Impoundments:	6	0
# Total Plots:	140	58
# Time Series:	48	19
# Annual:	24	23
# Seasonal:	68	16

Hydrologic Definition of Seasons:

1. August 1 - October 31
2. November 1 - March 20
3. March 21 - July 31

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 20 years and at least 120 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 10 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.

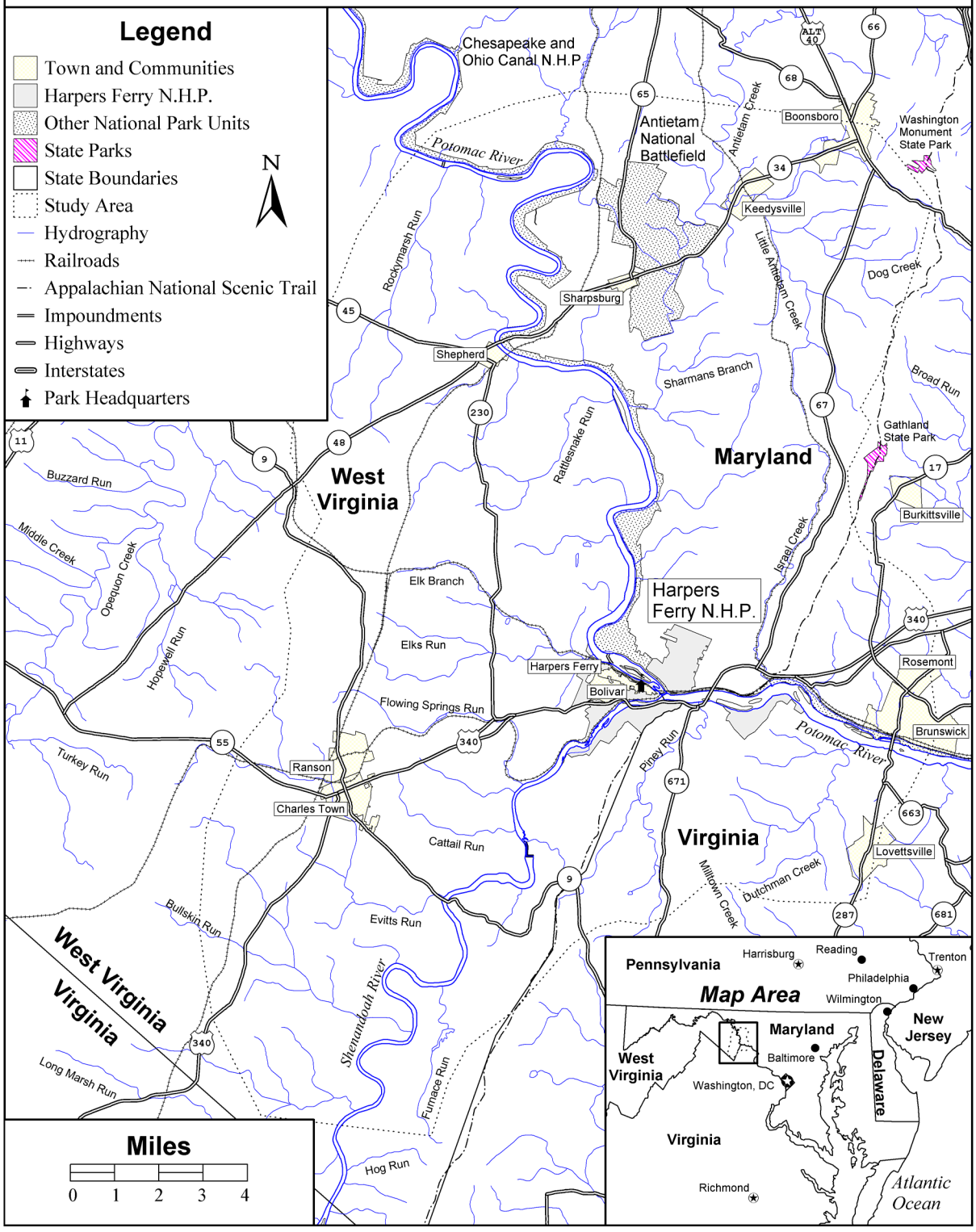
Seasonal Analysis Criteria:

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 25 years and observations in at least 4 of the 25 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.

Harpers Ferry National Historical Park

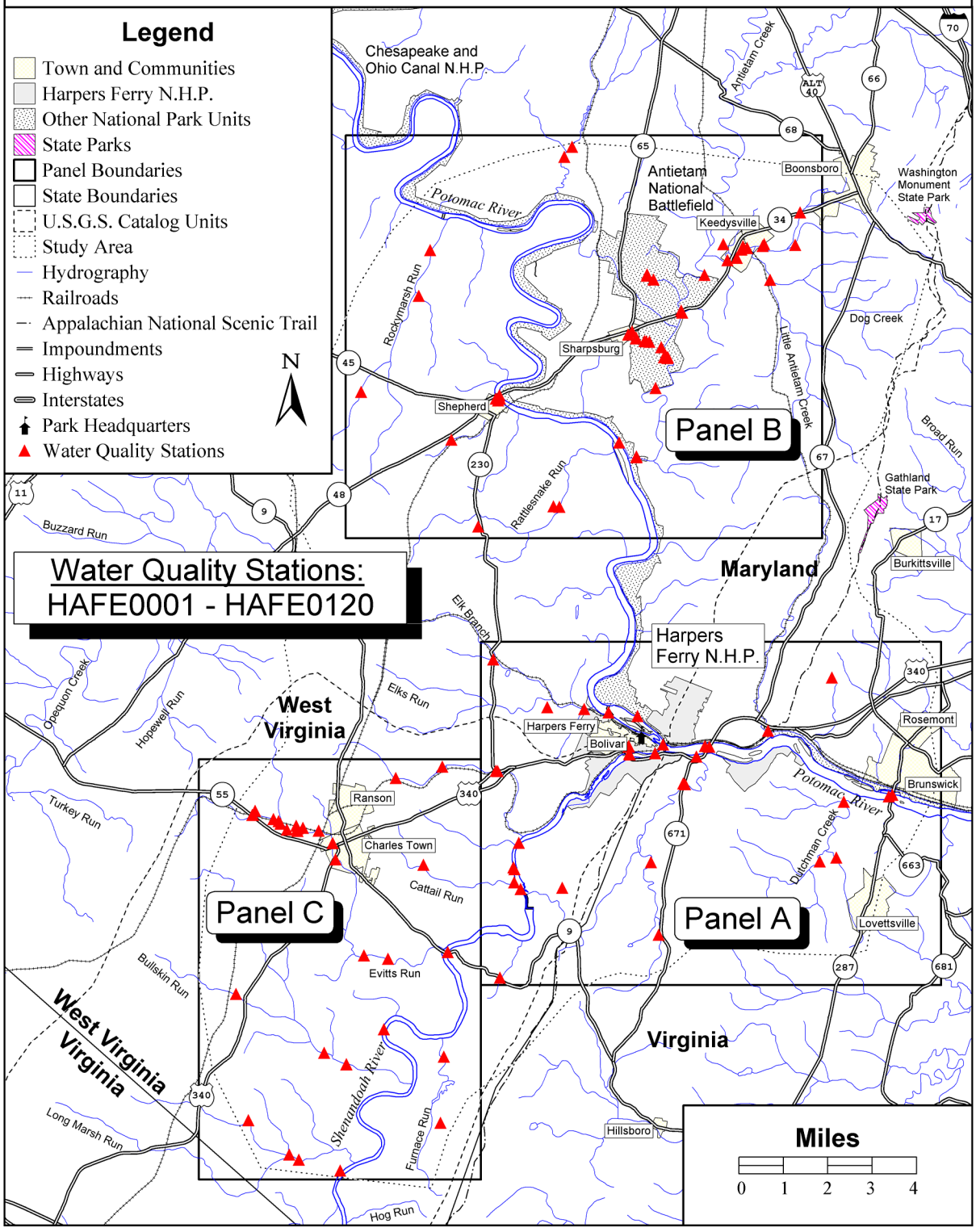
Regional Location Map



Harpers Ferry National Historical Park

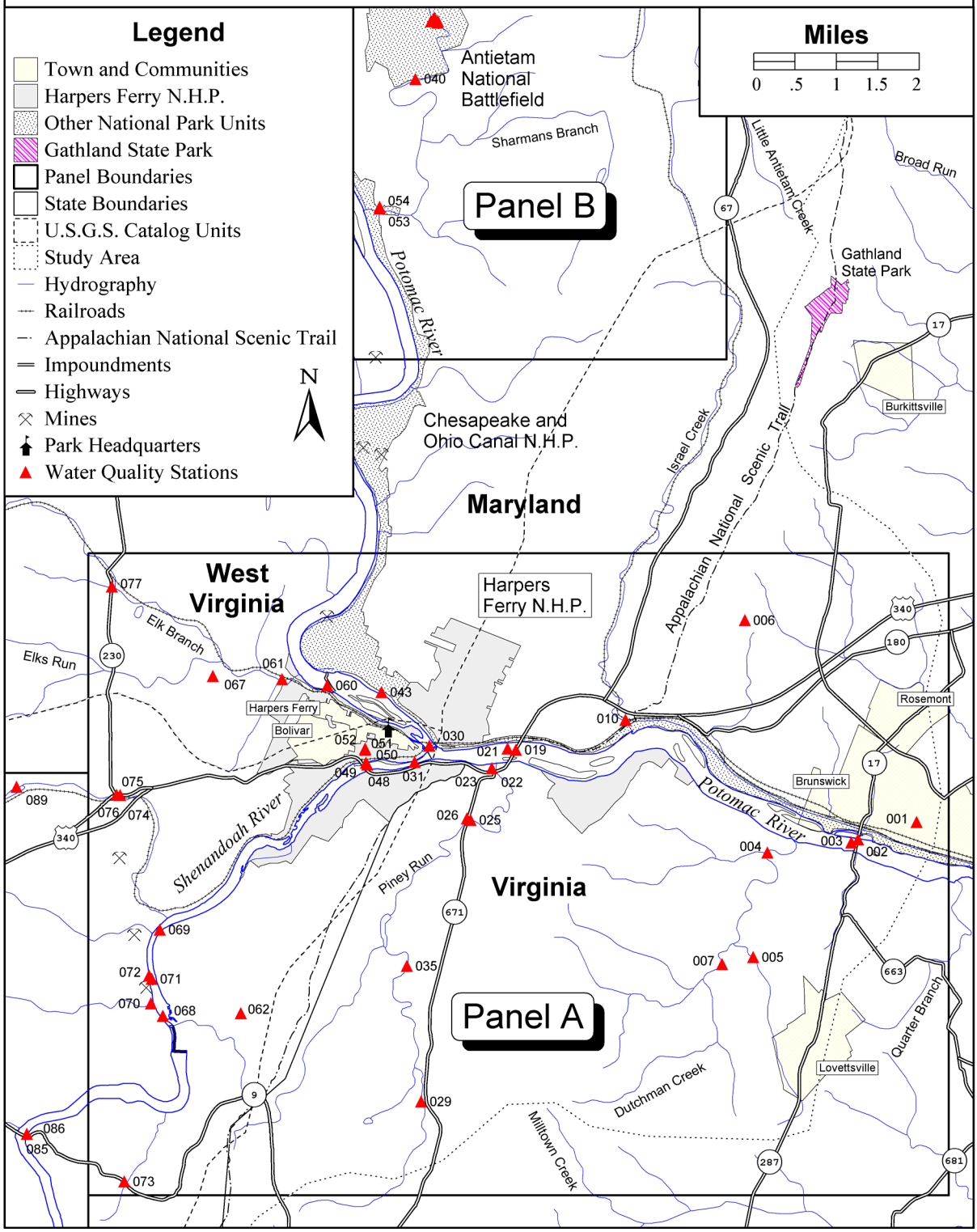
Water Quality Monitoring Locations

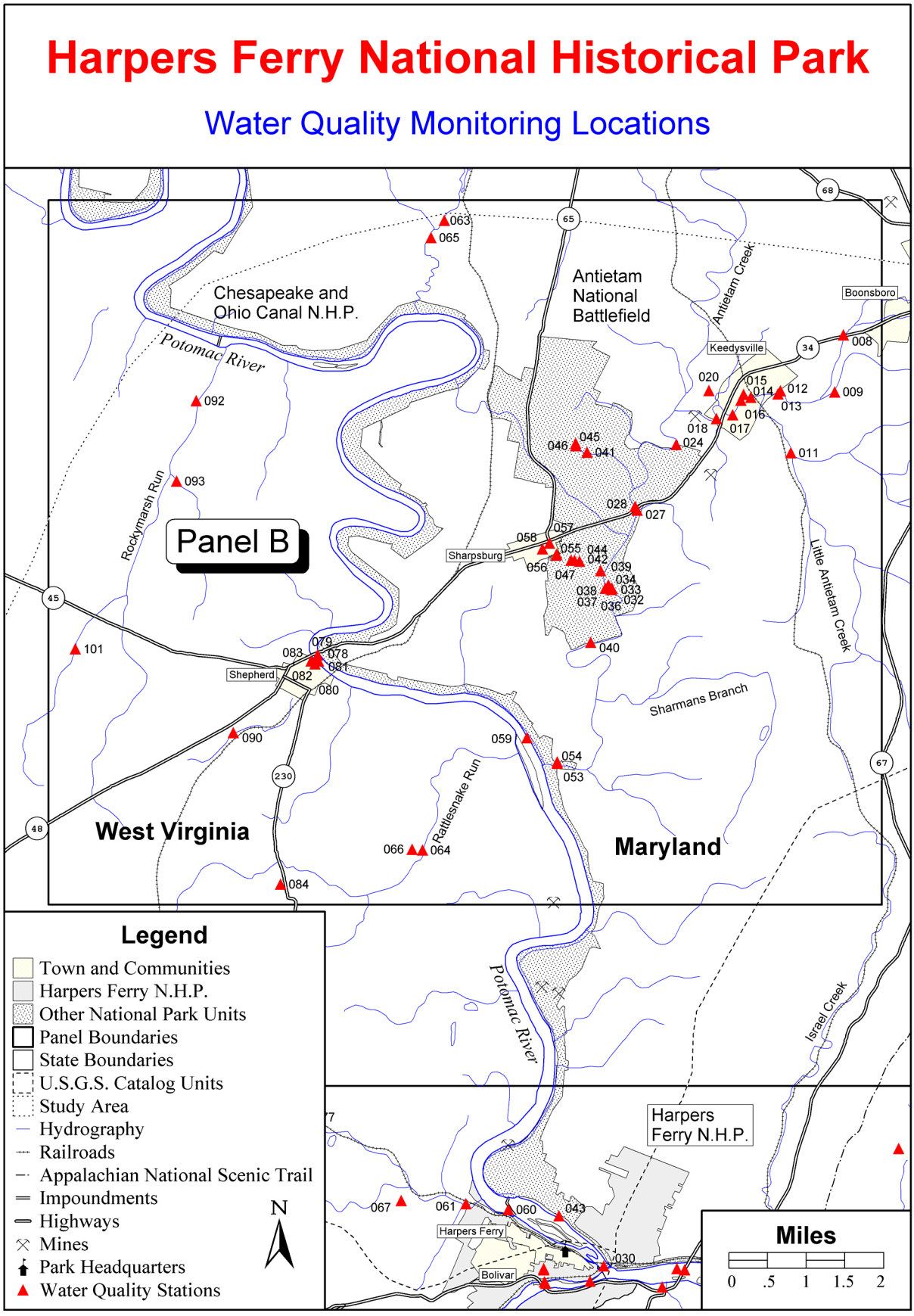
Graphic Panel Index

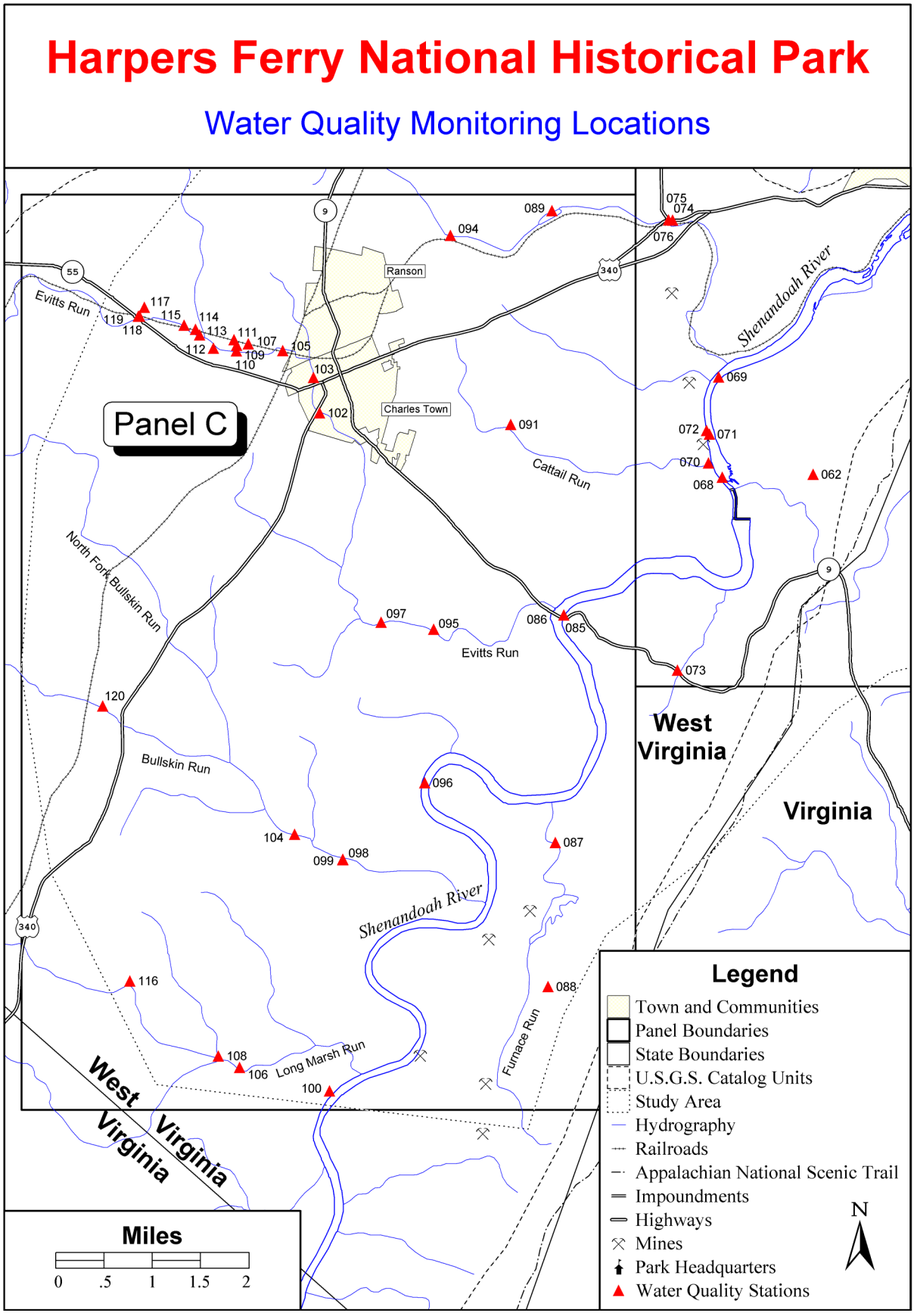


Harpers Ferry National Historical Park

Water Quality Monitoring Locations



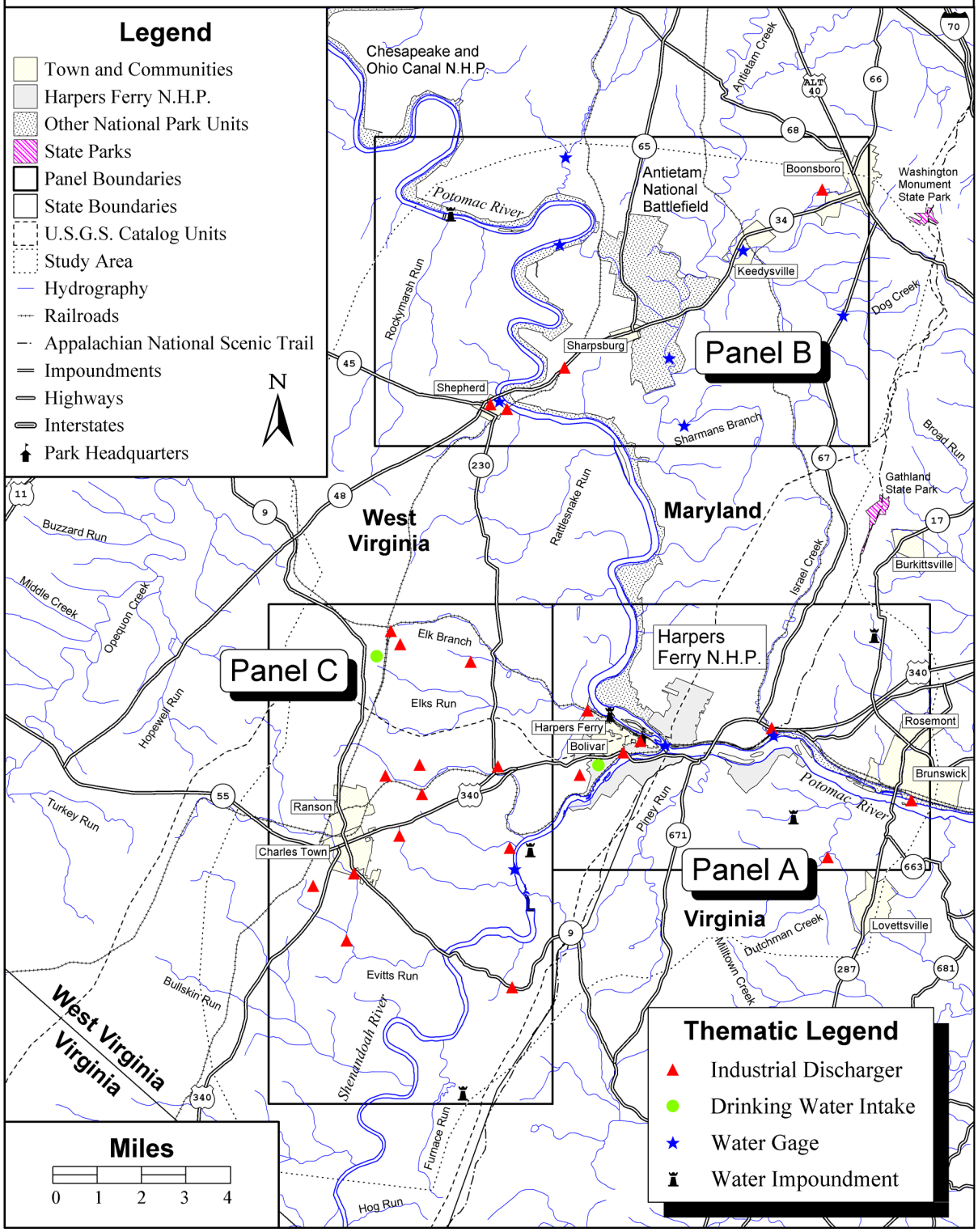

Harpers Ferry National Historical Park
Water Quality Monitoring Locations
Chesapeake and Ohio Canal N.H.P.
Potomac River
Antietam National Battlefield
Antietam Creek
Boonsboro
Keedysville
Rockymarsh Run
Panel B
Sharpsburg
Little Antietam Creek
Shepherd
Sharmans Branch
Rattlesnake Run
West Virginia
Maryland
Potomac River
Israel Creek
Harpers Ferry N.H.P.
Harpers Ferry
Bolivar
Legend
Town and Communities
Harpers Ferry N.H.P.
Other National Park Units
Panel Boundaries
State Boundaries
U.S.G.S. Catalog Units
Study Area
Hydrography
Railroads
Appalachian National Scenic Trail
Impoundments
Highways
Mines
Park Headquarters
Water Quality Stations
N
Miles
0 .5 1 1.5 2


Harpers Ferry National Historical Park
Water Quality Monitoring Locations
Panel C
Ranson
Charles Town
Evitts Run
Cattail Run
North Fork Bullskin Run
Bullskin Run
Shenandoah River
Long Marsh Run
Furnace Run
West Virginia
Virginia
West Virginia
Virginia
Miles
0 .5 1 1.5 2
Legend
Town and Communities
Panel Boundaries
State Boundaries
U.S.G.S. Catalog Units
Study Area
Hydrography
Railroads
Appalachian National Scenic Trail
Impoundments
Highways
Mines
Park Headquarters
Water Quality Stations
N

Harpers Ferry National Historical Park

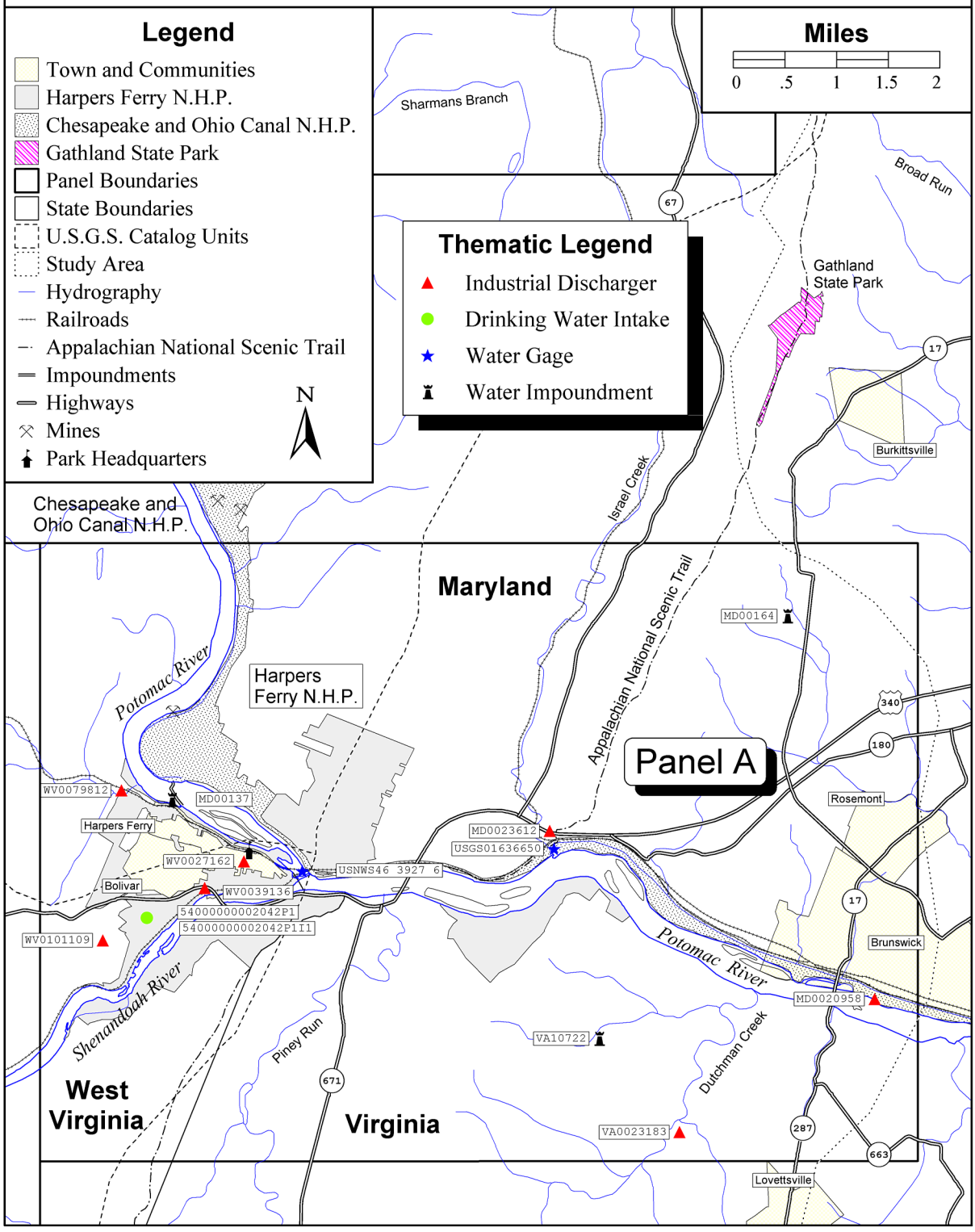
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

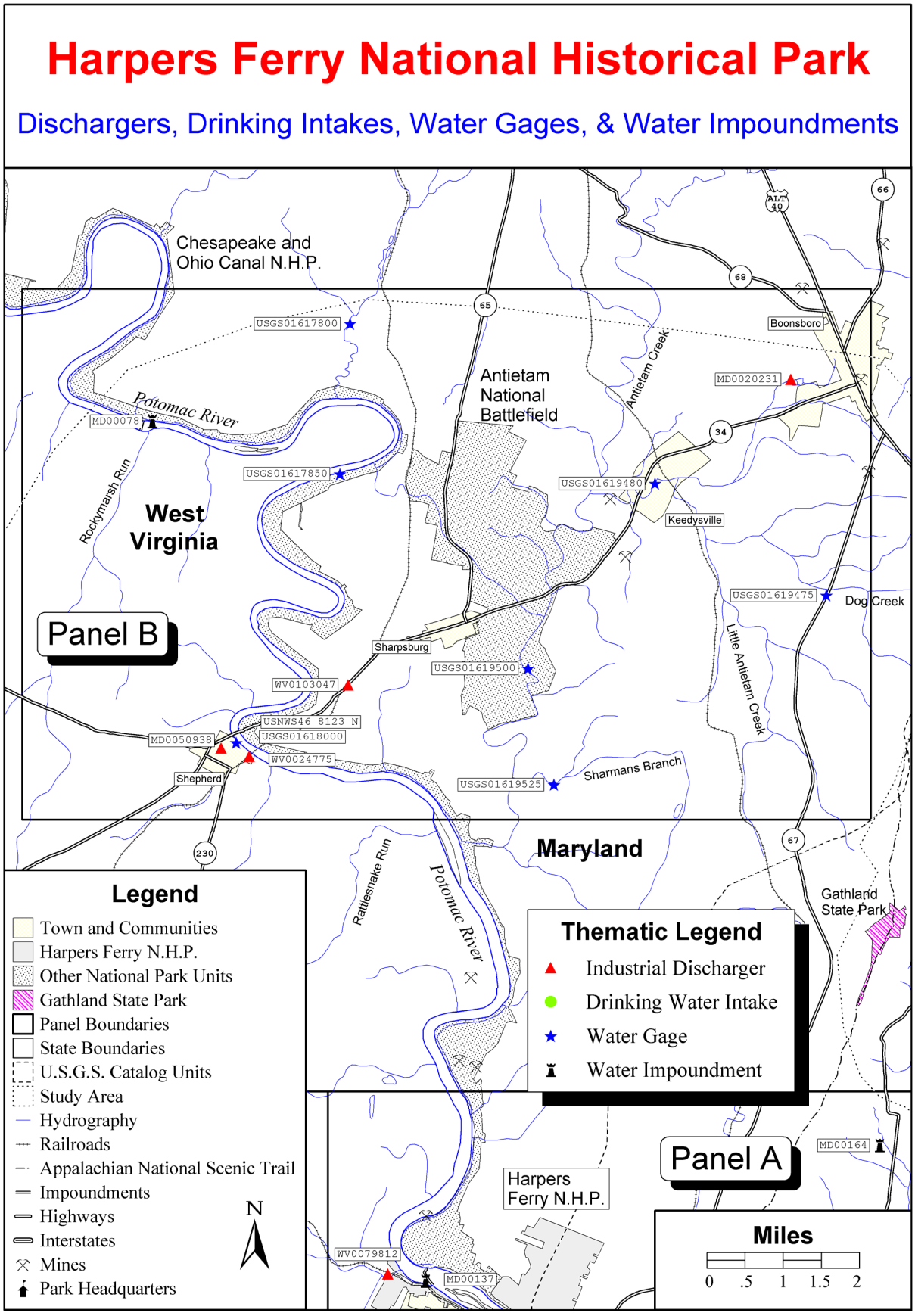
Graphic Panel Index



Harpers Ferry National Historical Park

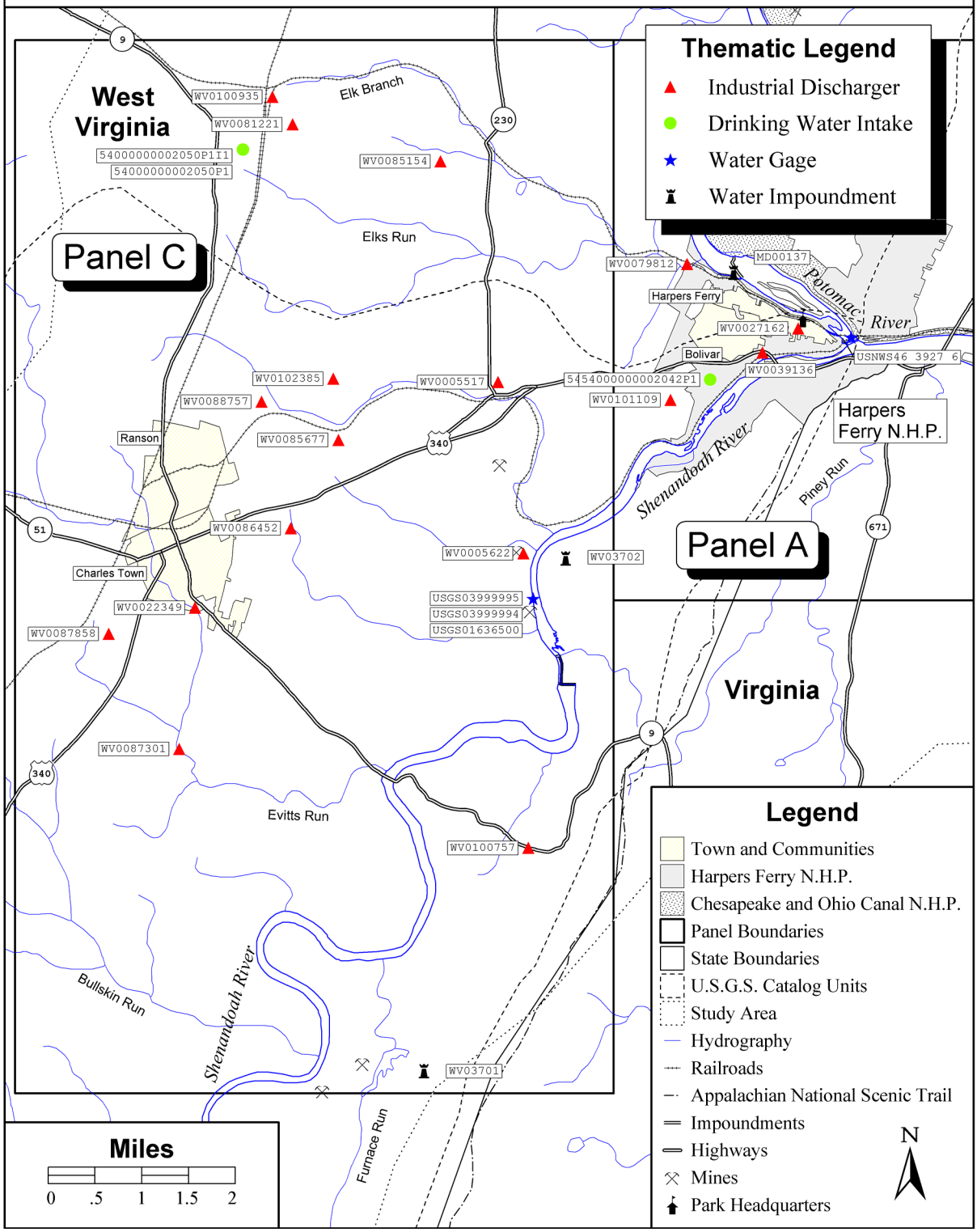
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments




Harpers Ferry National Historical Park
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments
Chesapeake and Ohio Canal N.H.P.
USGS01617800
Potomac River
MD00078
Rockymarsh Run
USGS01617850
West Virginia
Antietam National Battlefield
Antietam Creek
Boonsboro
MD0020231
USGS01619480
Keedysville
USGS01619475
Dog Creek
Little Antietam Creek
Panel B
Sharpsburg
USGS01619500
WV0103047
USNWS46 8123 N
USGS01618000
MD0050938
WV0024775
Shepherd
USGS01619525
Sharmans Branch
Maryland
Rattlesnake Run
Potomac River
Gathland State Park
Thematic Legend
Industrial Discharger
Drinking Water Intake
Water Gage
Water Impoundment
Panel A
MD00164
Harpers Ferry N.H.P.
WV0079812
MD00137
Miles
0 .5 1 1.5 2
Legend
Town and Communities
Harpers Ferry N.H.P.
Other National Park Units
Gathland State Park
Panel Boundaries
State Boundaries
U.S.G.S. Catalog Units
Study Area
Hydrography
Railroads
Appalachian National Scenic Trail
Impoundments
Highways
Interstates
Mines
Park Headquarters
N

Harpers Ferry National Historical Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
MD0020231	BOONSBORO MUNICIPAL UTILITIES	11 SAINT PAUL ST	BOONSBORO	UN NAMED TRIB TO LITTLE ANTIET
MD0020958	BRUNSWICK SEWAGE TREATMENT PLA	20 EAST A STREET	BRUNSWICK	POTOMAC RIVER
MD0023612	WEAVERTON DEVELOPMENT TRUST (C	RT 340 & 67	.....	ISREAL C
MD0050938	SHEPHERDSTOWN STP	.....	POTOMAC PARK	POTOMAC R
VA0023183	LOVETTSVILLE,TOWN OF	RT 673	LOVETTSVILLE	DUTCHMAN C
WV0005517	HALLTOWN PAPERBOARD COMPANY	P. O. BOX 10	HALLTOWN	PS 1
WV0005622	Millville Quarry, Inc.	P.O. Box 166	Millville	S 1
WV0022349	CHARLES TOWN SEWER DEPARTMENT,	.....	CHARLES TOWN	TR TO SHENANDOAH R
WV0024775	SHEPHERDSTOWN SEWAGE TREATMENT	.....	SHEPHERDSTOWN	POTOMAC R
WV0027162	HARPERS FERRY TOWN OF	.....	HARPERS FERRY	SHENANDOAH R
WV0039136	HARPERS FERRY BOLIVAR PUB SERV	HARPERS FERRY NATL PARK	HARPERS FERRY	SHENANDOAH R
WV0079812	HARPERS FERRY WTP	P.O. BOX 217	HARPERS FERRY	PNB 21
WV0081221	JEFERSON HIGH SCHOOL	110 MORDINGTON AVENUE	SHENANDOAH JCT	
WV0085154	U. S. DEPT. OF INTERIOR	POST OFFICE BOX 237	HARPERS FERRY	
WV0085677	SANITARY ASSOCIATES	P. O. BOX 319	BROOKLANDVILLE	S
WV0086452	Willow Springs PSC	POST OFFICE BOX 547	CHARLES TOWN	S 2
WV0087301	RUSSELL ROPER	BOX 276	CHARLES TOWN	S 4
WV0087858	JEFFERSON CO. BD. OF EDUCATION	110 Mordington Street	Charles Town	
WV0088757	CHARLES TOWN RACES, INC.	P. O. BOX 551	CHARLES TOWN	S 1
WV0100757	JEFFERSON CO. BD. OF EDUCATION	110 Mordington Avenue	Charles Town	S 3
WV0100935	SNYDER ENTERPRISES	P. O. BOX 400	SHENANDOAH JCT	P 1
WV0101109	HARPERS FERRY CAMP RESORT	ROUTE 3, BOX 1300	HARPERS FERRY	S
WV0102385	WALNUT GROVE UTILITIES, INC.			S 1
WV0103047	VERNON S. DODSON	ROUTE 1, BOX 132	MARTINSBURG	P 4 C

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
54000000002042P1	TREATMENT PLANT	HARPERS FERRY	1340	
54000000002042P1I1	SPRING	HARPERS FERRY	1340	
54000000002050P1	TREATMENT PLANT	SHEPHERDSTOWN	2500	
54000000002050P1I1	POTOMAC RIVER	SHEPHERDSTOWN	2500	

Water Gages

Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS01617800	MARSH RN AT GRIMES, MD	Stream	18.90	1964	1994
USGS01617850	POTOMAC R AT LOCK 40	Stream			
USGS01618000	POTOMAC R AT SHEPHERDSTOWN, WV	Stream	5936.00	1929	1994
USGS01619475	DOG CREEK TRIB. NR.	Stream			
USGS01619480	L ANTIETAM C AT KEED	Stream	24.00		
USGS01619500	ANTIETAM C NR SHARPSBURG, MD	Stream	281.00	1897	1994
USGS01619525	SHARMANS B NR ANTIET	Stream			
USGS01636500	SHENANDOAH R AT MILLVILLE, WV	Stream	3040.00	1895	1994

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

Water Gages

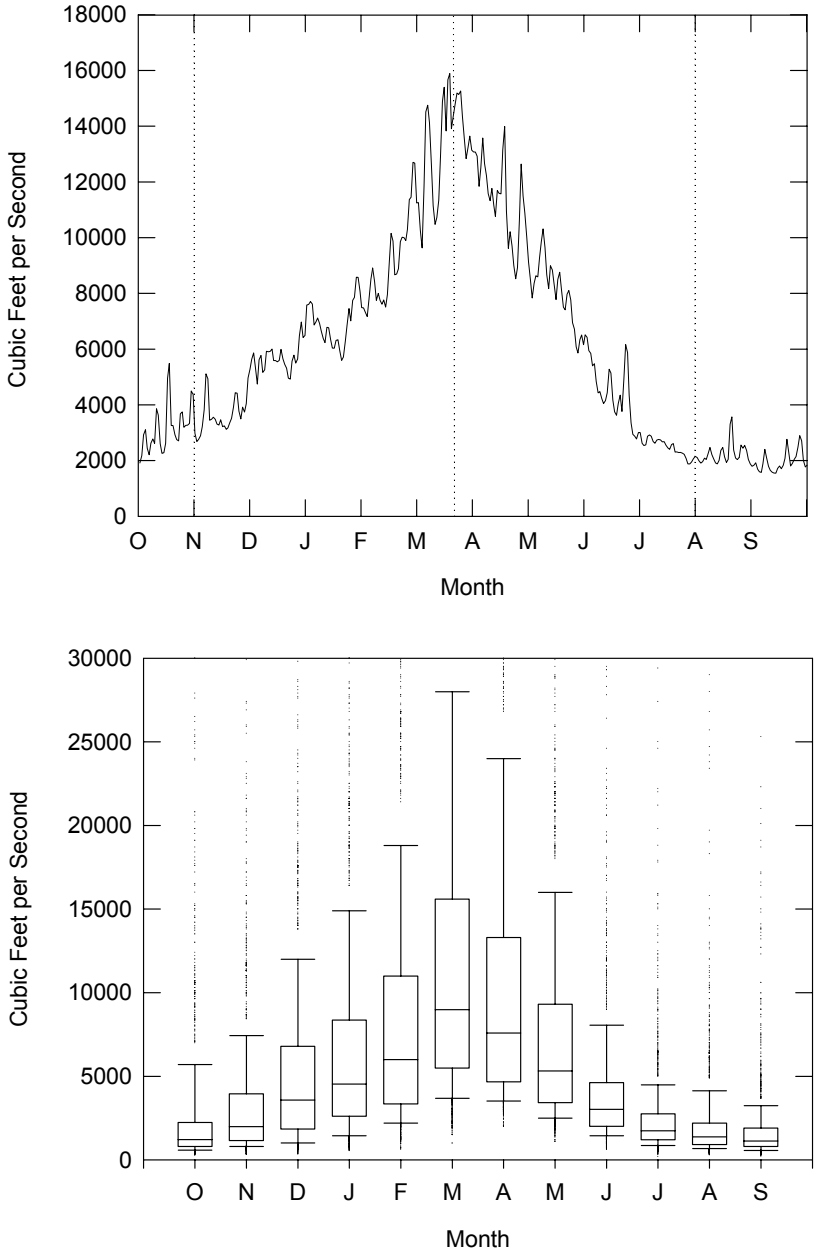
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS01636650	POTOMAC R AT WEVERTO	Stream			
USNWS46 3927 6	HARPERS FERRY WVA ON	Stream			
USNWS46 8123 N	SHEPHERDSTOWN W VA O	Stream	5936.00		
USGS03999994	SUMMATION SF PLUS NF SHENANDOAH R.	Stream	3040.00	1977	1979
USGS03999995	POT. R PT OF ROCKS MINUS POT. R SHEPHERDSTOWN	Stream	15587.0	1977	1977

Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
MD00078	POTOMAC RIVER DAM NO. 4	USDA FS	Hydro	Gravity	Significant	1869
MD00137	POTOMAC RIVER DAM #3	POTOMAC EDISON CO OF WVA	Hydro	Other	Low	1870
MD00164	DAMAZO POND	H DAMZO	Flood	Earth	Low	1975
VA10722	LOWRY DAM	NORVEL LEE LOWRY JR.	Supply	Earth	Low	1968
WV03701	FURNACE RUN DAM SITE	SHANNONDALE INC	Supply	Earth	Significant	1965
WV03702	KEYS FERRY ACRES LAKE	H W SPEAKS	Rec.	Earth	Significant	1960

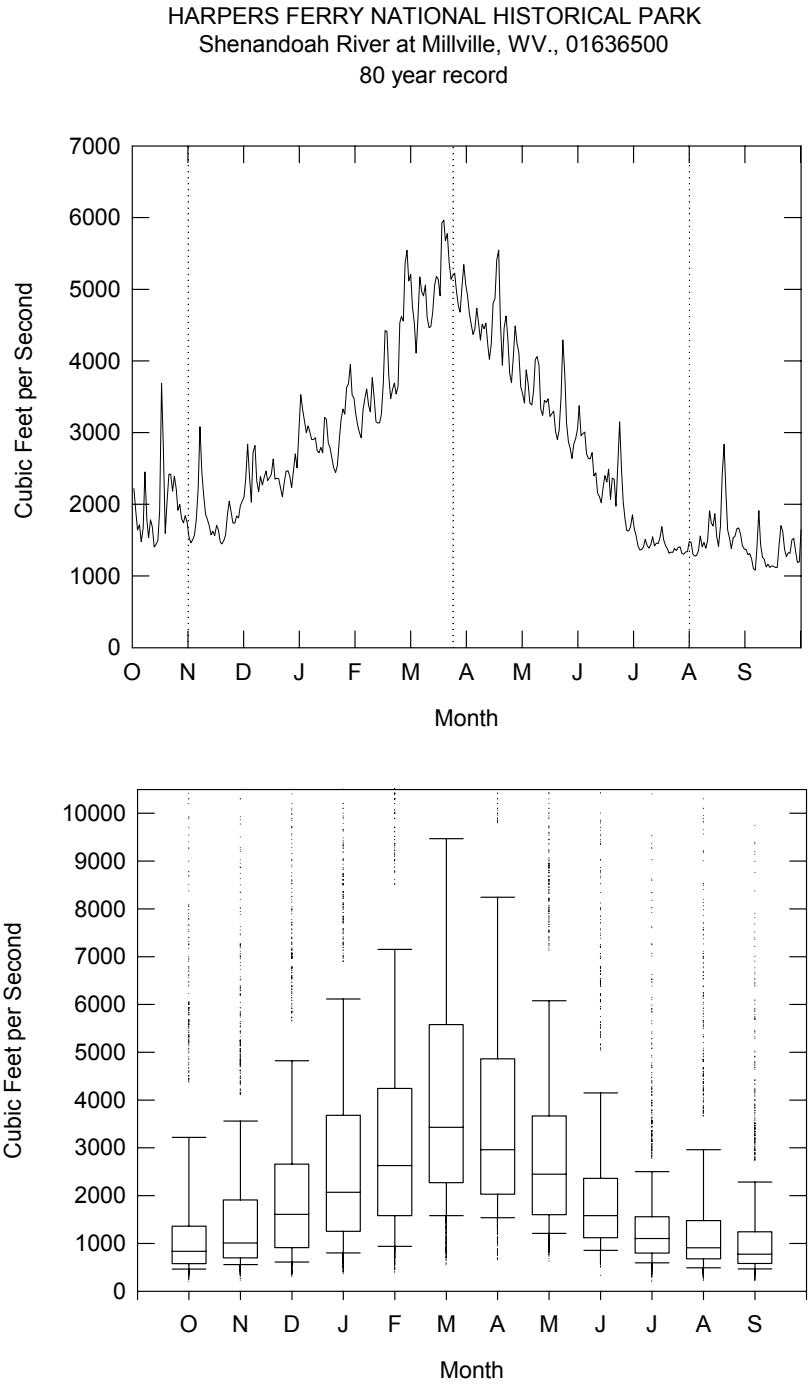
REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

HARPERS FERRY NATIONAL HISTORICAL PARK
Potomac River at Shepardstown, WV., 01618000
66 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 Harpers Ferry National Historical Park are: Aug. 1 to Oct. 31, Nov. 1 to Mar. 20, and Mar. 21 to Jul. 31.

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS



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 Harpers Ferry National Historical Park are: Aug. 1 to Oct. 31, Nov. 1 to Mar. 20, and Mar. 21 to Jul. 31.

CONTACTS FOR AGENCY CODES RETRIEVED FOR HAFE

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
21WV7IWQ	FISHER, JANICE	W.VIRGINIA DEPT NAT RES	(304)755-3846	(304)558-2108
112WRD	WILLIAMS, OWEN	US GEOLOGICAL SURVEY	(703)648-5610	
21VASWCB	POLLOCK, VERA	VA DEPT OF ENVIRONMENTAL	(804)527-5224	
11NATDC	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	
1113SHWQ	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067
* DATA FOR 1113SHWQ HAS BEEN 'RETIRED' AT THE REQUEST OF STORET USER ASSISTANCE (703)883-8861 ON 03/14/86.				
1113PPWQ	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176	
1113UPEN	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176	
1112A9WQ	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176	
11COEHUN	MARCHESE, VINCE	CORPS OF ENGINEERS	(304)529-5248	
21MDEXP	BOSTATER, CHARLES	MARYLAND DEPT OF NAT RES	(301)269-3767	
31POTOMA	HAYWOOD, CARLTON	INTRSTAT COMM POTOMAC RVR	(301)984-1908	
21WVWQAS	FISHER, JANICE	W.VIRGINIA DEPT NAT RES	(304)755-3846	(304)558-2108
21WVAMBG	CAMPBELL, PATRICK	WV DIV OF ENV PROTECTION	(304)558-2108	
21MD	BOSTATER, CHARLES	MARYLAND DEPT OF NAT RES	(301)269-3767	
21MDOEP	CLAFLIN, LARRY	MD OFFICE OF ENVIRON PGMS	(301)225-6316	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518

QUANTITY OF DATA RETRIEVED FOR HAFE 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
21WV7IWQ	W.VIRGINIA DEPT NAT RES	09/18/46-06/13/95	09/18/46-06/13/95	14	1	3	1	0	0	24728	12283	175	107
112WRD	US GEOLOGICAL SURVEY	05/16/33-03/16/95	No Data in Park	38	0	6	0	0	0	23357	0	487	0
21VASWCB	VA DEPT OF ENVIRONMENTAL	07/18/68-08/13/96	No Data in Park	10	0	3	0	1	0	3190	0	122	0
11NATDC	USEPA HQ	No Data in S.A.	No Data in Park	2	0	0	0	2	0	0	0	0	0
1113SHWQ	USEPA HQ	06/14/67-06/16/67	No Data in Park	2	0	0	0	0	0	45	0	5	0
1113PPWQ	USEPA REGION 3	07/28/69-08/19/69	No Data in Park	3	0	0	0	0	0	61	0	11	0
1113UPEN	USEPA REGION 3	No Data in S.A.	No Data in Park	4	0	0	0	4	0	0	0	0	0
1112A9WQ	USEPA REGION 3	05/24/72-04/17/73	No Data in Park	4	0	0	0	0	0	192	0	25	0
11COEHUN	CORPS OF ENGINEERS	10/07/93-07/07/94	No Data in Park	6	0	0	0	0	0	1900	0	316	0
21MDEXP	MARYLAND DEPT OF NAT RES	No Data in S.A.	No Data in Park	18	0	0	0	18	0	0	0	0	0
31POTOMA	INTRSTAT COMM POTOMAC RVR	07/08/71-02/12/74	07/19/71-12/11/72	5	1	0	0	1	0	956	141	9	6
21WVWQAS	W.VIRGINIA DEPT NAT RES	03/11/96-06/17/96	03/11/96-06/17/96	1	1	0	0	0	0	76	76	44	44
21WVAMBG	WV DIV OF ENV PROTECTION	03/09/93-05/16/95	No Data in Park	1	0	1	0	0	0	393	0	74	0
21MD	MARYLAND DEPT OF NAT RES	03/21/66-10/01/82	No Data in Park	2	0	2	0	0	0	2589	0	50	0
21MDOEP	MD OFFICE OF ENVIRON PGMS	04/07/80-12/06/95	No Data in Park	2	0	2	0	0	0	6703	0	78	0
11NPSWRD	NATIONAL PARK SERVICE	05/30/85-07/17/88	No Data in Park	8	0	8	0	0	0	2282	0	10	0
Totals		05/16/33-08/13/96	09/18/46-06/17/96	120	3	25	1	26	0	66472	12500	867	110

[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 05/16/33 To 08/13/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75
HAFE0001[1]	FR Fb 12	No	297	230	67	0
HAFE0002	OTLM:3C R9V 1:32R:NSW9CK 1033	No	27	0	0	27
HAFE0003	MD 17 BRIDGE	No	0	0	0	0
HAFE0004[1]	RT. 674 BRIDGE NEAR MOUTH OF CREEK	No	571	0	310	261
HAFE0005	RT. 674	No	40	19	21	0
HAFE0006	PROJECT CLEARWATER-ROELKEY FARM	No	0	0	0	0
HAFE0007	ROUTE 673 (LOUDOUN CO)	No	74	29	45	0
HAFE0008	DOWNSTREAM CROSSING OF MD.34 BETWEEN KEEDYSVILLE	No	0	0	0	0
HAFE0009	HICKS BRIDGE ON KEEDYSVILLE ROAD	No	0	0	0	0
HAFE0010	ISRAEL C AT WEVERTON, MD	No	53	53	0	0
HAFE0011	DOGSTREET ROAD BRIDGE, 1 MILE SE OF KEEDYSVILLE	No	0	0	0	0
HAFE0012	CEMENT BRIDGE ON ROAD FROM KEEDYSVILLE TO MT. HE	No	0	0	0	0
HAFE0013	WA DI 6	No	37	0	37	0
HAFE0014	100 YARDS ABOVE MD.34 IN KEEDYSVILLE	No	0	0	0	0
HAFE0015	DAM BELOW MD.34 AT RALPH TAYLOR'S	No	0	0	0	0
HAFE0016	L ANTIETAM C AT KEEDYSVILLE, MD	No	54	54	0	0
HAFE0017	COFFMAN LANE BRIDGE	No	0	0	0	0
HAFE0018	0.1 MILE OFF OF ROUTE 34 ON ROAD TO HICKS BRIDGE	No	0	0	0	0
HAFE0019[1]	RT. 340 BRIDGE, VA- MD LINE	No	1637	0	780	857
HAFE0020	WASH. CO.-KDSVLLE-BKRVLLE RD.	No	279	0	0	279
HAFE0021	US 340 BRIDGE	No	0	0	0	0
HAFE0022	RT. 340	No	21	0	21	0
HAFE0023	RT. 621	No	48	29	19	0
HAFE0024[1]	ANTIETAM CREEK - PRY FARM	No	290	290	0	0
HAFE0025	PINEY RUN NEAR LOVETTSVILLE, VA	No	27	0	0	27
HAFE0026[1]	ROUTE 671	No	755	755	0	0
HAFE0027	NTIETUM CK AT RT 34058	No	49	0	0	49
HAFE0028	BRIDGE AT PORTERSTOWN ROAD	No	0	0	0	0
HAFE0029	ROUTE 687 (LOUDOUN CO)	No	22	0	22	0
HAFE0030	B+O RR BRIDGE AT HARPER'S FERRY	No	259	0	0	259
HAFE0031	ALONG RIVER ON HARPERS FERRY SIDE 5.0 MILES BEL	No	0	0	0	0
HAFE0032[1]	ANTIETAM CR AT GAG STA BEL BURN. BR NR SHARP.	No	2583	2583	0	0
HAFE0033[1]	ANTIETAM C NR SHARPSBURG, MD	No	5516	211	1306	3999
HAFE0034[1]	AT GAGING STA. JUST BELOW BURNSIDE BRIDGE NR. SH	No	1239	0	899	340
HAFE0035	ROUTE 685 (LOUDOUN CO)	No	22	0	22	0
HAFE0036	BURNSIDE BRG. ANTIETAM BATTLEFLD	No	277	0	0	277
HAFE0037	ANTIETAM CR. BURNSIDE BR GAG.STA	No	20	0	0	20
HAFE0038[1]	ANTIETAM CREEK AT BURNSIDE BRIDGE	No	291	291	0	0
HAFE0039[1]	SHARPSBURG CREEK ENTERING THE ANTIETAM	No	289	289	0	0
HAFE0040[1]	ANTIETAM CREEK AT SNAVELY FORD	No	290	290	0	0
HAFE0041[1]	MUMMA SPRING LEAVING PARK	No	289	289	0	0
HAFE0042[1]	SHARPSBURG CREEK SHERRICK FARM	No	289	289	0	0
HAFE0043	S. OF PLEASANTVILLE ALONG HARPERS FERRY RD., 1	No	0	0	0	0
HAFE0044	WA Di 72	No	18	0	0	18
HAFE0045[1]	MUMMA SPRING AT SOURCE	No	263	263	0	0
HAFE0046[1]	WA Di 103	No	460	460	0	0
HAFE0047	WA Di 72	No	19	0	0	19
HAFE0048	SHENDOAH RIV RT 340 HARPER FERRY	No	65	0	0	65
HAFE0049	SHEN.R. RTE 340 BR HARPERS FERRY	No	8	0	0	8
HAFE0050	Shenandoah River at Harpers Ferry, W. Va.	Yes	76	76	0	0
HAFE0051	RT. 340 BRG. NEAR HARPER'S FERRY	Yes	141	0	0	141
HAFE0052[1]	Shenandoah River at Harpers Ferry, W. Va.	Yes	12283	4462	5282	2539
HAFE0053	BRIDGE ON HARPER'S ROAD AT ANTIETAM	No	0	0	0	0
HAFE0054	BRIDGE AT MILLS ROAD	No	0	0	0	0
HAFE0055[1]	SHARPSBURG CREEK ENTERING PARK	No	281	281	0	0
HAFE0056	WA Di 73	No	18	0	0	18
HAFE0057	WA Di 49	No	39	0	0	39
HAFE0058	WA DI 8	No	29	0	0	29
HAFE0059	0.5 MILE ABOVE MOUTH OF ANTIETAM CRALONG C AND O	No	0	0	0	0
HAFE0060[1]	HARPERS FERRY SPRING	No	393	393	0	0
HAFE0061	ELKS RUN TRIB NR HARPERS FERRY	No	32	21	0	11
HAFE0062	SHENANDOAH R TRIB NR SILVER GROVE	No	34	21	0	13
HAFE0063	AT USGS GAGE, 220 FEET ABOVE BRIDGE ON SPREACHER	No	0	0	0	0
HAFE0064	RATTLESNAKE RN NR SHEPHERDSTOWN, WV	No	77	77	0	0
HAFE0065	MARSH RN AT GRIMES, MD	No	691	299	380	12
HAFE0066	Rattlesnake Run near Moler Crossroads, W. Va.	No	387	387	0	0
HAFE0067	Elks Run near Harpers Ferry, W. Va.	No	388	388	0	0
HAFE0068	U.S.STEEL MILLVILLE UPSTREAM	No	0	0	0	0
HAFE0069[1]	Shenandoah River at Millville, W. VA.	No	861	228	95	538
HAFE0070	Cattail Run south of Millville, W. Va.	No	394	394	0	0
HAFE0071	U.S.STEEL MILLVILLE EFFLUENT 02	No	0	0	0	0

Station Period of Record Tabulation
From 05/16/33 To 08/13/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75
HAFE0072[1]	SHENANDOAH R AT MILLVILLE, WV	No	8729	4874	2933	922
HAFE0073	FORGE RUN NR MOUNTAIN MISSION	No	36	23	0	13
HAFE0074	HALLTOWN PAPERBOARD CULVERT	No	0	0	0	0
HAFE0075	HALLTOWN PAPRBOARD PIPE EFFLUENT	No	0	0	0	0
HAFE0076	Flowing Spring Run south of Halltown, W. Va.	No	410	369	0	41
HAFE0077	ELK BRANCH TRIB NR CHARLES TOWN	No	13	0	0	13
HAFE0078[1]	POTOMAC RIVER AT GAG. STA. BE. BR. ON RT. 34	No	4120	2596	1524	0
HAFE0079	POTOMAC R. RTE 34 BR SHEPHRDSTWN	No	20	0	0	20
HAFE0080[1]	POTOMAC R AT SHEPHERDSTOWN, WV	No	5818	2659	2989	170
HAFE0081		No	0	0	0	0
HAFE0082	POTOMAC R AT SHEPARDSTOWN	No	0	0	0	0
HAFE0083[1]	AT GAGING STA. BELOW BRIDGE ON MD. RT. 34 USGS-	No	1350	0	1119	231
HAFE0084	RATTLESNAKE RUN NR SHEPARDSTOWN	No	32	21	0	11
HAFE0085	SHEN.R. RTE 9 BR BLOOMERY	No	37	0	0	37
HAFE0086	SHEN.R. RTE 9 BR E BLOOMERY	No	21	0	0	21
HAFE0087	FURNACE RUN NR MOUNTAIN MISSION	No	32	19	0	13
HAFE0088	PURCELLVILLE POTTS SPRINGS	No	0	0	0	0
HAFE0089	Flowing Spring Run west of Halltown, W. Va.	No	390	390	0	0
HAFE0090	2101039/MORGAN SPRING	No	11	0	0	11
HAFE0091	CATTAIL SPRING 88A	No	54	54	0	0
HAFE0092	Rockymarsh Run near Scrabble, W. Va.	No	352	352	0	0
HAFE0093	ROCKYMARSH RUN TRIB NR SCRABBLE	No	32	19	0	13
HAFE0094	2103051/FLOWING SPRING	No	20	0	0	20
HAFE0095	Evitts Run south of Mechanicstown, W. Va.	No	386	372	0	14
HAFE0096	SHENANDOAH R AT MEYERSTOWN	No	0	0	0	0
HAFE0097	Evitts Run below Charles Town, WV	No	72	0	0	72
HAFE0098	BULLSKIN RUN AT KABLETOWN,WV	No	245	223	22	0
HAFE0099	Bullskin Run at Kabletown, W. Va.	No	392	392	0	0
HAFE0100[1]	Shenandoah River near Meyerstown, W. VA.	No	7640	196	5140	2304
HAFE0101	ROCKYMARSH RUN TRIB NR SHEPARDSTOWN	No	34	23	0	11
HAFE0102	EVITTS RUN AT RT 340	No	51	0	0	51
HAFE0103	EVITTS RUN @ LIBERTY ST BRDG @ CHARLES TOWN,WV	No	72	49	23	0
HAFE0104	BULLSKIN RUN ABOVE KABLETOWN,WV	No	231	209	22	0
HAFE0105	Evitts Run	No	409	409	0	0
HAFE0106	Long Marsh Run south of Meyerstown, WV	No	387	387	0	0
HAFE0107	Evitts Run	No	99	99	0	0
HAFE0108[1]	NORTH FORK LONG MARSH RUN NEAR MEYERSTOWN,WV	No	300	278	22	0
HAFE0109	2103028/WYSONG SPRING	No	29	0	0	29
HAFE0110	CHARLES TOWN P S SPRING	No	11	0	11	0
HAFE0111	Evitts Run	No	410	410	0	0
HAFE0112	Evitts Run	No	166	166	0	0
HAFE0113	EVITTS RUN NEAR RANSON,WV	No	154	132	22	0
HAFE0114	Evitts Run	No	407	407	0	0
HAFE0115	Evitts Run	No	409	409	0	0
HAFE0116	LONG MARSH RUN TRIB NR FRANKLINTOWN	No	30	21	0	9
HAFE0117	2103023/ENGLE SPRINGS	No	11	0	0	11
HAFE0118	Evitts Run west of Charles Town, W. Va.	No	386	386	0	0
HAFE0119	EVITTS RUN NR CHARLES TOWN	No	33	23	0	10
HAFE0120	BULLSKIN RUN NR WHEAT LAND	No	29	19	0	10

[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 05/16/33 To 08/13/96

Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	147	21	53	73	3	0
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	550	283	224	43	22	1
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	130	0	54	76	2	0
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	15	2	1	12	3	1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	2535	1012	751	772	86	3
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	229	0	118	111	3	1
00019	SAMPLE WEIGHT IN GRAMS	31	22	9	0	2	0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	929	383	321	225	18	0
00023	SAMPLE WEIGHT IN POUNDS	50	22	28	0	4	0
00024	SAMPLE LENGTH IN INCHES	39	22	17	0	3	0
00025	BAROMETRIC PRESSURE (MM OF HG)	195	164	31	0	22	0
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	735	333	227	175	32	0
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	756	333	244	179	35	0
00032	CLOUD COVER (PERCENT)	154	154	0	0	2	0
00035	WIND VELOCITY (MILES PER HOUR)	48	48	0	0	4	2
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	47	47	0	0	4	2
00039	SAMPLE LENGTH IN MILLIMETERS	4	0	4	0	1	0
00041	WEATHER (WMO CODE 4501)	338	181	80	77	7	0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	1	1	0	0	1	0
00049	SURFACE AREA IN SQUARE MILES	53	0	0	53	2	0
00057	FLOW, INDICATES IT HAS BEEN CHECKED	173	98	75	0	1	1
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	3	1	1	1	2	0
00060	FLOW, STREAM, MEAN DAILY CFS	658	134	305	219	14	1
00061	FLOW, STREAM, INSTANTANEOUS CFS	1255	389	465	401	28	1
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	124	124	0	0	2	0
00065	STAGE, STREAM (FEET)	619	221	246	152	8	2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	379	5	0	374	16	2
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	80	24	56	0	2	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	495	264	199	32	9	0
00080	COLOR (PLATINUM-COBALT UNITS)	463	24	233	206	14	1
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	61	0	0	61	3	1
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	61	0	2	59	2	1
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	209	0	209	0	2	1
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	1	1	0	0	1	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	483	325	157	1	10	2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1569	767	490	312	66	1
00096	SALINITY AT 25 DEGREES C (MG/ML)	1	1	0	0	1	0
00098	SAMPLING STATION LOCATION VERTICAL (METERS)	124	124	0	0	2	0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	221	158	63	0	22	2
00300	OXYGEN, DISSOLVED MG/L	1511	594	501	416	62	1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	477	101	237	139	8	1
00310	BOD, 5 DAY, 20 DEG C MG/L	560	143	186	231	23	1
00311	BOD, DISSOLVED, 5 DAY MG/L	6	0	0	6	3	0
00340	COD, .25N K2CR2O7 MG/L	307	225	81	1	19	1
00400	PH (STANDARD UNITS)	1901	815	553	533	79	3
00403	PH, LAB, STANDARD UNITS SU	934	426	352	156	41	1
00405	CARBON DIOXIDE (MG/L AS CO2)	148	3	53	92	8	0
00406	PH, FIELD, STANDARD UNITS SU	112	112	0	0	11	0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1662	800	339	523	74	3
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	16	16	0	0	5	0
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10	10	0	0	6	0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	113	0	46	67	6	1
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	38	0	0	38	6	1
00440	BICARBONATE ION (MG/L AS HCO3)	171	32	17	122	27	0
00445	CARBONATE ION (MG/L AS CO3)	133	26	16	91	23	0
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	4	4	0	0	3	0
00449	BICARBONATE,INCREMENTAL TITRATION,(HCO3) LAB MG/L	3	3	0	0	2	0
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	22	22	0	0	6	0
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	27	27	0	0	2	0
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	68	68	0	0	6	0
00480	SALINITY - PARTS PER THOUSAND	277	160	81	36	4	0
00500	RESIDUE, TOTAL (MG/L)	347	45	124	178	22	1
00505	RESIDUE, TOTAL VOLATILE (MG/L)	48	20	22	6	8	0
00510	RESIDUE, TOTAL FIXED (MG/L)	48	20	22	6	8	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	263	39	57	167	14	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	993	434	342	217	34	2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	51	23	22	6	8	0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	51	23	22	6	8	0
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	1	1	0	0	1	0
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	1	1	0	0	1	0
00600	NITROGEN, TOTAL (MG/L AS N)	290	178	112	0	6	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00602	NITROGEN, DISSOLVED (MG/L AS N)	32	2	30	0	3	0
00603	NITROGEN TOTAL, BOTTOM DEPOSITS (MG/KG-N DRY WGT)	2	0	0	2	2	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	142	27	110	5	9	1
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	28	1	27	0	2	0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	474	346	125	3	29	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	900	373	421	106	43	2
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	3	0	2	1	2	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	303	300	1	2	24	0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	425	79	234	112	30	0
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	220	162	0	58	10	0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	717	284	191	242	37	2
00621	NITRATE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	1	0	0	1	1	0
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	99	47	52	0	13	0
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	50	2	48	0	2	0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	1189	577	510	102	47	2
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	3	0	2	1	2	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	835	446	343	46	52	2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	240	164	74	2	28	0
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	2	0	2	0	2	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	22	0	10	12	5	0
00655	PHOSPHATE, POLY (MG/L AS PO4)	6	0	6	0	1	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	529	422	89	18	19	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1156	604	507	45	41	2
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	235	144	91	0	14	0
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	8	4	2	2	6	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	204	158	46	0	28	0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	481	219	245	17	29	1
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	53	34	19	0	8	0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	6	6	0	0	6	0
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	2	0	2	0	2	0
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	2	0	2	0	2	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	45	28	17	0	2	0
00690	CARBON, TOTAL (MG/L AS C)	18	6	0	12	10	0
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	93	0	76	17	5	1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	824	169	306	349	50	2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	199	6	75	118	9	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	437	186	122	129	38	0
00916	CALCIUM, TOTAL (MG/L AS CA)	25	25	0	0	7	0
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	4	4	0	0	4	0
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	4	4	0	0	4	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	437	186	122	129	38	0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	26	26	0	0	8	0
00929	SODIUM, TOTAL (MG/L AS NA)	129	25	56	48	9	1
00930	SODIUM, DISSOLVED (MG/L AS NA)	477	176	122	179	32	1
00931	SODIUM ADSORPTION RATIO	223	6	101	116	11	0
00932	SODIUM, PERCENT	221	6	101	114	11	0
00933	SODIUM,PLUS POTASSIUM (MG/L)	25	0	22	3	4	0
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	4	4	0	0	4	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	470	172	121	177	29	1
00937	POTASSIUM, TOTAL MG/L AS K)	122	26	54	42	10	1
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	4	4	0	0	4	0
00940	CHLORIDE,TOTAL IN WATER MG/L	1260	564	339	357	71	1
00945	SULFATE, TOTAL (MG/L AS SO4)	1031	426	339	266	46	2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	403	167	121	115	20	0
00951	FLUORIDE, TOTAL (MG/L AS F)	315	8	199	108	3	1
00955	SILICA, DISSOLVED (MG/L AS SI02)	401	166	121	114	20	0
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	16	16	0	0	6	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	117	72	45	0	10	0
01001	ARSENIC, SUSPENDED (UG/L AS AS)	27	0	27	0	2	0
01002	ARSENIC, TOTAL (UG/L AS AS)	164	47	102	15	27	1
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10	6	2	2	7	0
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	19	0	19	0	2	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	118	74	44	0	4	0
01006	BARIUM, SUSPENDED (UG/L AS BA)	21	0	21	0	2	0
01007	BARIUM, TOTAL (UG/L AS BA)	76	27	49	0	15	1
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	4	4	0	0	4	0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	74	56	18	0	4	0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	4	4	0	0	2	0
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	6	6	0	0	5	0
01022	BORON, TOTAL (UG/L AS B)	3	3	0	0	2	0
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	4	4	0	0	4	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01025	CADMIUM, DISSOLVED (UG/L AS CD)	164	72	45	47	13	1
01026	CADMIUM, SUSPENDED (UG/L AS CD)	20	0	20	0	2	0
01027	CADMIUM, TOTAL (UG/L AS CD)	353	48	254	51	33	2
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10	6	2	2	7	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10	6	2	2	7	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	117	72	43	2	11	0
01031	CHROMIUM, SUSPEND (UG/L AS CR)	21	0	21	0	2	0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	300	0	203	97	3	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	219	48	142	29	30	2
01035	COBALT, DISSOLVED (UG/L AS CO)	119	74	45	0	4	0
01036	COBALT, SUSPENDED (UG/L AS CO)	19	0	19	0	2	0
01037	COBALT, TOTAL (UG/L AS CO)	29	0	29	0	3	0
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	6	4	2	0	6	0
01040	COPPER, DISSOLVED (UG/L AS CU)	126	72	45	9	13	1
01041	COPPER, SUSPENDED (UG/L AS CU)	27	0	27	0	2	0
01042	COPPER, TOTAL (UG/L AS CU)	212	48	128	36	34	2
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10	6	2	2	7	0
01044	IRON, SUSPENDED (UG/L AS FE)	41	5	36	0	8	0
01045	IRON, TOTAL (UG/L AS FE)	638	290	145	203	42	2
01046	IRON, DISSOLVED (UG/L AS FE)	257	148	69	40	24	1
01049	LEAD, DISSOLVED (UG/L AS PB)	181	73	45	63	13	1
01050	LEAD, SUSPENDED (UG/L AS PB)	25	0	25	0	2	0
01051	LEAD, TOTAL (UG/L AS PB)	372	49	250	73	33	2
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10	6	2	2	7	0
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	9	5	2	2	7	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	47	5	42	0	7	0
01055	MANGANESE, TOTAL (UG/L AS MN)	677	287	184	206	38	2
01056	MANGANESE, DISSOLVED (UG/L AS MN)	222	148	67	7	21	0
01059	THALLIUM, TOTAL (UG/L AS TL)	1	1	0	0	1	0
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	90	72	18	0	4	0
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	4	4	0	0	4	0
01065	NICKEL, DISSOLVED (UG/L AS NI)	145	90	48	7	12	0
01066	NICKEL, SUSPENDED (UG/L AS NI)	21	0	21	0	2	0
01067	NICKEL, TOTAL (UG/L AS NI)	127	47	78	2	26	2
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10	6	2	2	7	0
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	2	0	2	0	1	0
01075	SILVER, DISSOLVED (UG/L AS AG)	157	72	45	40	4	1
01076	SILVER, SUSPENDED (UG/L AS AG)	19	0	19	0	2	0
01077	SILVER, TOTAL (UG/L AS AG)	151	27	92	32	18	1
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	6	6	0	0	5	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	90	72	18	0	2	0
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	4	4	0	0	4	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	92	74	18	0	4	0
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	4	4	0	0	4	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	130	72	45	13	13	1
01091	ZINC, SUSPENDED (UG/L ZN)	21	0	21	0	2	0
01092	ZINC, TOTAL (UG/L AS ZN)	229	51	138	40	35	2
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10	6	2	2	7	0
01097	ANTIMONY, TOTAL (UG/L AS SB)	30	9	21	0	3	1
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	5	5	0	0	5	0
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	4	4	0	0	4	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	340	265	60	15	26	2
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	118	90	21	7	12	0
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	2	0	2	0	2	0
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	5	5	0	0	5	0
01130	LITHIUM, DISSOLVED (UG/L AS LI)	92	74	18	0	4	0
01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	4	4	0	0	4	0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	119	74	45	0	4	0
01146	SELENIUM, SUSPENDED (UG/L AS SE)	19	0	19	0	2	0
01147	SELENIUM, TOTAL (UG/L AS SE)	106	29	77	0	17	1
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	6	6	0	0	5	0
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	4	4	0	0	4	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	9	5	2	2	7	0
01300	OIL-GREASE (SEVERITY)	528	233	216	79	14	2
01305	DETERGENT SUDS (SEVERITY)	534	239	216	79	14	2
01310	GAS BUBBLES (SEVERITY)	534	239	216	79	14	2
01315	SLUDGE, FLOATING (SEVERITY)	534	239	216	79	14	2
01320	GARBAGE, FLOATING (SEVERITY)	534	239	216	79	14	2
01325	ALGAE, FLOATING MATS (SEVERITY)	534	239	216	79	14	2
01330	ODOR, ATMOSPHERIC (SEVERITY)	534	239	216	79	14	2
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	534	239	216	79	14	2

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01340	FISH, DEAD (SEVERITY)	534	239	216	79	14	2
01345	DEBRIS, FLOATING (SEVERITY)	534	239	216	79	14	2
01350	TURBIDITY (SEVERITY)	535	239	217	79	15	2
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	20	20	0	0	1	0
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	535	239	216	80	14	2
01360	SAMPLE LENGTH CM	27	22	5	0	2	0
01361	SAMPLE LENGTH-MAXIMUM CM	27	22	5	0	2	0
01362	SAMPLE WEIGHT-MAXIMUM G	27	22	5	0	2	0
01371	SAMPLE, AVERAGE LENGTH BIOLOGICAL TISS.COMP. CM	27	22	5	0	2	0
01373	SAMPLE, AVG WT BIOLOGICAL TISS OF COMPOSITE GRAMS	27	22	5	0	2	0
01501	ALPHA, TOTAL	33	0	28	5	5	1
01502	ALPHA, TOTAL, COUNTING ERROR	2	0	2	0	2	1
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	3	0	0	3	1	0
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	3	0	0	3	1	0
03221	INVALID PARAMETER	1	0	1	0	1	1
03501	BETA, TOTAL	33	0	28	5	5	1
03502	BETA, TOTAL, COUNTING ERROR	21	0	21	0	2	1
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	3	0	0	3	1	0
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	3	0	0	3	1	0
03886	MERCURY,TOTAL, IN FISH, WET WEIGHT MG/KG	7	0	7	0	2	0
03891	ZINC, IN FISH, WET WEIGHT MG/KG	2	0	2	0	1	0
03906	CHLORDANE, WET WEIGHT, FISH TISSUE UG/G	1	0	1	0	1	0
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	23	23	0	0	6	0
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	23	23	0	0	6	0
04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	16	16	0	0	1	0
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	23	23	0	0	6	0
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	23	23	0	0	6	0
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	23	23	0	0	6	0
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	23	23	0	0	6	0
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	23	23	0	0	6	0
09501	RADIUM 226, TOTAL	2	0	0	2	2	0
22703	URANIUM, NATURAL, DISSOLVED	2	0	0	2	2	0
30217	DIBROMOMETHANE, WATER, WHOLE, RECOVERABLE UG/L	1	1	0	0	1	0
30234	BROMACIL, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30235	BUTACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30236	BUTYLATE, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30245	CARBOXIN, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30254	CYCLOATE, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30255	DIPHENAMID, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30264	HEXAZINONE, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30311	TERBACIL, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
30324	VERNOLATE, WATER, WHOLE, RECOVERABLE, UG/L	1	1	0	0	1	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	325	0	189	136	5	1
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	514	134	142	238	12	1
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	39	33	0	6	5	0
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	78	25	47	6	6	0
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	234	108	76	50	9	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	698	166	271	261	18	2
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	191	107	84	0	7	0
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	192	106	86	0	7	0
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	112	0	2	110	4	1
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	8	8	0	0	7	0
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	8	8	0	0	7	0
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	3	3	0	0	2	0
32104	BROMOFORM,WHOLE WATER,UG/L	7	7	0	0	6	0
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	4	4	0	0	3	0
32106	CHLOROFORM,WHOLE WATER,UG/L	8	8	0	0	7	0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	179	173	0	6	6	1
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	231	203	28	0	3	1
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	124	124	0	0	2	0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	124	124	0	0	2	0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	203	203	0	0	3	1
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	56	56	0	0	1	1
32223	CHLOROPHYLL A MG/M2 SPECTROPHOTOMETRIC CORRECTED	4	0	4	0	1	1
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	4	0	4	0	1	1
32230	CHLOROPHYLL A (MG/L)	56	56	0	0	1	1
32231	CHLOROPHYLL B (MG/L)	56	56	0	0	1	1
32232	CHLOROPHYLL C (MG/L)	56	56	0	0	1	1
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	63	0	48	15	7	1
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	4	4	0	0	3	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	4	4	0	0	3	0
34200	ACENAPHTHYLENE TOTWUG/L	5	5	0	0	5	0
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34205	ACENAPHTHENE TOTWUG/L	4	4	0	0	4	0
34208	ACENAPHTHENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34210	ACROLEIN TOTWUG/L	1	1	0	0	1	0
34215	ACRYLONITRILE TOTWUG/L	1	1	0	0	1	0
34220	ANTHRACENE TOTWUG/L	5	5	0	0	5	0
34223	ANTHRACENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	5	5	0	0	5	0
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	4	4	0	0	4	0
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	5	5	0	0	5	0
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	4	4	0	0	4	0
34247	BENZO-A-PYRENE TOTWUG/L	5	5	0	0	5	0
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34253	A-BHC-ALPHA DISSUG/L	23	23	0	0	6	0
34257	B-BHC-BETA DRY WGTBOTUG/KG	4	4	0	0	4	0
34258	B-BHC-BETA WET WGTTISMG/KG	6	0	6	0	2	0
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	6	6	0	0	6	0
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	4	4	0	0	4	0
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	8	0	8	0	2	0
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	5	5	0	0	5	0
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	4	4	0	0	4	0
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	5	5	0	0	5	0
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	4	4	0	0	4	0
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	5	5	0	0	5	0
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	4	4	0	0	4	0
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	5	5	0	0	5	0
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	4	4	0	0	4	0
34301	CHLOROBENZENE TOTWUG/L	8	8	0	0	7	0
34306	CHLORODIBROMOMETHANE TOTWUG/L	4	4	0	0	4	0
34311	CHLOROETHANE TOTWUG/L	8	8	0	0	7	0
34320	CHRYSENE TOTWUG/L	5	5	0	0	5	0
34323	CHRYSENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34336	DIETHYL PHTHALATE TOTWUG/L	5	5	0	0	5	0
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	4	4	0	0	4	0
34341	DIMETHYL PHTHALATE TOTWUG/L	5	5	0	0	5	0
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	4	4	0	0	4	0
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	5	5	0	0	5	0
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	4	4	0	0	4	0
34351	ENDOSULFAN SULFATE TOTWUG/L	1	1	0	0	1	0
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	2	0	2	0	1	0
34356	ENDOSULFAN, BETA TOTWUG/L	6	6	0	0	6	0
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	4	4	0	0	4	0
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	2	0	2	0	1	0
34361	ENDOSULFAN, ALPHA TOTWUG/L	2	2	0	0	2	0
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	12	0	12	0	3	0
34366	ENDRIN ALDEHYDE TOTWUG/L	6	6	0	0	6	0
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	4	4	0	0	4	0
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	2	0	2	0	1	0
34371	ETHYLBENZENE TOTWUG/L	8	8	0	0	7	0
34376	FLUORANTHENE TOTWUG/L	5	5	0	0	5	0
34379	FLUORANTHENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34381	FLUORENE TOTWUG/L	5	5	0	0	5	0
34384	FLUORENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	5	5	0	0	5	0
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34391	HEXACHLOROBUTADIENE TOTWUG/L	5	5	0	0	5	0
34394	HEXACHLOROBUTADIENE BOTUG/KG	4	4	0	0	4	0
34396	HEXACHLOROETHANE TOTWUG/L	5	5	0	0	5	0
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	4	4	0	0	4	0
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	5	5	0	0	5	0
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34408	ISOPHORONE TOTWUG/L	5	5	0	0	5	0
34411	ISOPHORONE DRY WGTBOTUG/KG	4	4	0	0	4	0
34413	METHYL BROMIDE TOTWUG/L	8	8	0	0	7	0
34418	METHYL CHLORIDE TOTWUG/L	8	8	0	0	7	0
34423	METHYLENE CHLORIDE TOTWUG/L	8	8	0	0	7	0
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	5	5	0	0	5	0
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	4	4	0	0	4	0
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	5	5	0	0	5	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	4	4	0	0	4	0
34445	NAPHTHALENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34447	NITROBENZENE TOTWUG/L	5	5	0	0	5	0
34450	NITROBENZENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34452	PARACHLOROMETA CRESOL TOTWUG/L	4	4	0	0	4	0
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34461	PHENANTHRENE TOTWUG/L	5	5	0	0	5	0
34472	PYRENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34475	TETRACHLOROETHYLENE TOTWUG/L	8	8	0	0	7	0
34480	THALLIUM DRY WGTBOTMG/KG	6	6	0	0	5	0
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	8	8	0	0	7	0
34496	1,1-DICHLOROETHANE TOTWUG/L	8	8	0	0	7	0
34501	1,1-DICHLOROETHYLENE TOTWUG/L	8	8	0	0	7	0
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	8	8	0	0	7	0
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	7	7	0	0	6	0
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	8	8	0	0	7	0
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	5	5	0	0	5	0
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	4	4	0	0	4	0
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	5	5	0	0	5	0
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	4	4	0	0	4	0
34531	1,2-DICHLOROETHANE TOTWUG/L	5	5	0	0	5	0
34536	1,2-DICHLOROBENZENE TOTWUG/L	9	9	0	0	8	0
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34541	1,2-DICHLOROPROPANE TOTWUG/L	8	8	0	0	7	0
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	8	8	0	0	7	0
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	1	1	0	0	1	0
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	5	5	0	0	5	0
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34561	1,3-DICHLOROPROPENE TOTWUG/L	2	2	0	0	2	0
34566	1,3-DICHLOROBENZENE TOTWUG/L	9	9	0	0	8	0
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34571	1,4-DICHLOROBENZENE TOTWUG/L	4	4	0	0	3	0
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	7	7	0	0	6	0
34581	2-CHLORONAPHTHALENE TOTWUG/L	5	5	0	0	5	0
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34586	2-CHLOROPHENOL TOTWUG/L	4	4	0	0	4	0
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34591	2-NITROPHENOL TOTWUG/L	5	5	0	0	5	0
34594	2-NITROPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	5	5	0	0	5	0
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	4	4	0	0	4	0
34601	2,4-DICHLOROPHENOL TOTWUG/L	5	5	0	0	5	0
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34606	2,4-DIMETHYLPHENOL TOTWUG/L	5	5	0	0	5	0
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34616	2,4-DINITROPHENOL TOTWUG/L	5	5	0	0	5	0
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	5	5	0	0	5	0
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34626	2,6-DINITROTOLUENE TOTWUG/L	5	5	0	0	5	0
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	4	4	0	0	4	0
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	5	5	0	0	5	0
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	4	4	0	0	4	0
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	5	5	0	0	5	0
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	4	4	0	0	4	0
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	5	5	0	0	5	0
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	4	4	0	0	4	0
34646	4-NITROPHENOL TOTWUG/L	4	4	0	0	4	0
34649	4-NITROPHENOL DRY WGTBOTUG/KG	4	4	0	0	4	0
34653	P,P'-DDE DISSUG/L	23	23	0	0	6	0
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	5	5	0	0	5	0
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	4	4	0	0	4	0
34664	PCB - 1221 WET WGTTISMG/KG	14	12	2	0	2	0
34667	PCB - 1232 WET WGTTISMG/KG	14	12	2	0	2	0
34668	DICHLORODIFUOROMETHANE TOTWUG/L	3	3	0	0	2	0
34669	PCB - 1248 WET WGTTISMG/KG	14	12	2	0	2	0
34670	PCB - 1260 WET WGTTISMG/KG	49	22	27	0	4	0
34671	PCB - 1016 TOTWUG/L	6	6	0	0	6	0
34674	PCB - 1016 WET WGTTISMG/KG	14	12	2	0	2	0
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	27	0	27	0	4	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	8	0	8	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34684	DIELDRIN TISMG/KG	6	0	6	0	2	0
34685	ENDRIN WET WGTTISMG/KG	27	0	27	0	4	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	27	0	27	0	4	0
34687	HEPTACHLOR WET WGTTISMG/KG	27	0	27	0	4	0
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	25	0	25	0	4	0
34689	PCB - 1242 WET WGTTISMG/KG	14	12	2	0	2	0
34691	TOXAPHENE WET WGTTISMG/KG	21	0	21	0	3	0
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	4	4	0	0	4	0
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	4	4	0	0	4	0
34696	NAPHTHALENE TOTWUG/L	6	6	0	0	6	0
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	7	7	0	0	6	0
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	8	8	0	0	7	0
34790	SURFACTANTS, AS CTAS, WATER MG/L	3	3	0	0	3	0
34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34880	IRON,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
34985	TIN,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	3	3	0	0	3	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	4	1	0	3	2	0
38442	DICAMBA (BANVEL) WATER,DISSUG/L	10	10	0	0	1	0
38478	LINURON WATER,DISSUG/L	11	11	0	0	1	0
38482	MCPA WATER,DISSUG/L	10	10	0	0	1	0
38487	MCPB WATER,DISSUG/L	10	10	0	0	1	0
38501	METHIOCARB WATER,DISSUG/L	11	11	0	0	1	0
38538	PROPOXUR WATER,DISSUG/L	10	10	0	0	1	0
38711	BENTAZON WATER, DISUG/L	10	10	0	0	1	0
38745	2,4-DB WATER, TOTUG/L	1	1	0	0	1	0
38746	2,4-DB WATER, DISUG/L	10	10	0	0	1	0
38811	FLUOMETURON WATER, DISUG/L	11	11	0	0	1	0
38866	OXAMYL WATER, DISUG/L	11	11	0	0	1	0
38933	CHLORPYRIFOS,DISSOLVED UG/L	23	23	0	0	6	0
39015	ETHYLPARATHION, FLAME IONIFATION,WTR SMPLE(UG/L)	6	0	6	0	2	0
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	3	3	0	0	3	0
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	3	3	0	0	3	0
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	3	0
39054	SIMETRYNE IN WHOLE WATER (UG/L)	3	3	0	0	3	0
39055	SIMAZINE IN WHOLE WATER (UG/L)	3	3	0	0	3	0
39056	PROMETONE IN WHOLE WATER (UG/L)	3	3	0	0	3	0
39057	PROMETRYNE IN WHOLE WATER (UG/L)	3	3	0	0	3	0
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	2	2	0	0	1	0
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	8	0	8	0	2	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	8	0	8	0	2	0
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	8	0	8	0	2	0
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	8	0	8	0	2	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	16	0	16	0	3	0
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	11	0	11	0	1	0
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	4	4	0	0	4	0
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	73	73	0	0	6	0
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	5	5	0	0	5	0
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	4	4	0	0	4	0
39105	PERCENT FAT HEXANE EXTRACTION	7	0	7	0	2	0
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	5	5	0	0	5	0
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	4	4	0	0	4	0
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5	0
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	4	4	0	0	4	0
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	4	4	0	0	3	0
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	8	8	0	0	7	0
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	6	4	2	0	5	0
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	15	0	15	0	3	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	8	0	8	0	1	0
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	4	0	0	4	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	10	0	10	0	2	0
39317	P,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	8	0	8	0	2	0
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	8	0	8	0	2	0
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	4	0	0	4	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	16	0	16	0	3	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	12	10	2	0	11	0
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	1	1	0	0	1	0
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10	6	2	2	7	0
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	6	6	0	0	6	0
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	6	6	0	0	6	0
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	11	9	2	0	10	0
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	24	24	0	0	6	0
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	19	4	13	2	7	0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	11	9	2	0	10	0
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10	6	2	2	7	0
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	1	1	0	0	1	0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	1	1	0	0	1	0
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	2	2	2	3	0
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	7	4	2	1	6	0
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1	0
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	2	2	2	3	0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10	4	2	4	7	0
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1	0
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	2	2	2	3	0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	8	6	2	0	7	0
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	24	24	0	0	6	0
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	6	2	2	2	3	0
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	3	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	7	5	2	0	6	0
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1	0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	6	2	2	2	3	0
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	12	10	2	0	11	0
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	8	6	2	0	7	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	21	0	21	0	3	0
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	2	0	2	0	1	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	7	5	2	0	6	0
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	6	2	2	2	3	0
39415	METOLACHLOR, WATER, DISSOLVED UG/L	23	23	0	0	6	0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	12	10	2	0	11	0
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	1	1	0	0	1	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	6	4	2	0	6	0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	7	5	2	0	6	0
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	6	6	0	0	6	0
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	4	4	0	0	4	0
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	6	6	0	0	6	0
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	4	4	0	0	4	0
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	6	6	0	0	6	0
39497	PCB - 1242 IN FISH OR ANIMALS WET WGT UG/KG	11	0	11	0	1	0
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	4	4	0	0	4	0
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	6	6	0	0	6	0
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	4	4	0	0	4	0
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	6	6	0	0	6	0
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	4	4	0	0	4	0
39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	31	12	19	0	3	0
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	4	4	0	0	4	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	7	5	2	0	6	0
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1	0
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	0	2	2	2	0
39525	PCBS TOTAL,FISH TISSUE WET (ISOMER ANALYSES) MG/KG	25	22	3	0	2	0
39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	2	2	0	0	1	0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	2	0	2	0	2	0
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	24	24	0	0	6	0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	2	0	2	0	2	0
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	24	24	0	0	6	0
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	2	0	2	0	2	0
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	24	24	0	0	6	0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	2	0	2	0	2	0
39602	METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L)	1	1	0	0	1	0
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	3	3	0	0	3	0
39632	ATRAZINE DISSOLVED IN WATER PPB	23	23	0	0	6	0
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5	0
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	4	4	0	0	4	0
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	1	1	0	0	1	0
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	2	0	2	0	1	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	5	3	2	0	5	0
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	15	15	0	0	1	0
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	5	3	2	0	5	0
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	15	15	0	0	1	0
39755	MIREX, TOTAL (UG/L)	4	4	0	0	3	0
39756	MIREX, DISSOLVED (UG/L)	1	1	0	0	1	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	5	3	2	0	5	0
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	15	15	0	0	1	0
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	8	0	8	0	1	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5	0
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
45554	O,P'-DDD IN TISSUE WET WEIGHT UG/KG	8	0	8	0	2	0
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	23	23	0	0	6	0
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	2	2	0	0	1	0
49235	INVALID PARAMETER	10	10	0	0	1	0
49236	INVALID PARAMETER	11	11	0	0	1	0
49289	INVALID PARAMETER	24	22	2	0	2	0
49291	INVALID PARAMETER	10	10	0	0	1	0
49292	INVALID PARAMETER	11	11	0	0	1	0
49293	INVALID PARAMETER	11	11	0	0	1	0
49294	INVALID PARAMETER	11	11	0	0	1	0
49295	INVALID PARAMETER	11	11	0	0	1	0
49296	INVALID PARAMETER	11	11	0	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
49297	INVALID PARAMETER	11	11	0	0	1	0
49298	INVALID PARAMETER	11	11	0	0	1	0
49299	INVALID PARAMETER	10	10	0	0	1	0
49300	INVALID PARAMETER	11	11	0	0	1	0
49301	INVALID PARAMETER	10	10	0	0	1	0
49302	INVALID PARAMETER	10	10	0	0	1	0
49303	INVALID PARAMETER	11	11	0	0	1	0
49304	INVALID PARAMETER	10	10	0	0	1	0
49305	INVALID PARAMETER	10	10	0	0	1	0
49306	INVALID PARAMETER	11	11	0	0	1	0
49307	INVALID PARAMETER	11	11	0	0	1	0
49308	INVALID PARAMETER	11	11	0	0	1	0
49309	INVALID PARAMETER	11	11	0	0	1	0
49310	INVALID PARAMETER	11	11	0	0	1	0
49311	INVALID PARAMETER	10	10	0	0	1	0
49312	INVALID PARAMETER	11	11	0	0	1	0
49313	INVALID PARAMETER	11	11	0	0	1	0
49314	INVALID PARAMETER	11	11	0	0	1	0
49315	INVALID PARAMETER	10	10	0	0	1	0
49375	INVALID PARAMETER	6	0	6	0	2	0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5	0	5	0	1	0
51505	INVALID PARAMETER	8	0	0	8	4	1
60050	ALGAE, TOTAL (CELLS/ML)	27	0	27	0	2	0
70222	WAVE HEIGHT (WMO CODE 1555)	37	37	0	0	2	0
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	2	0	0	2	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	671	168	428	75	21	1
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	211	6	101	104	7	0
70302	SOLIDS, DISSOLVED-TONS PER DAY	210	3	97	110	4	0
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	215	3	99	113	4	0
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	186	103	82	1	3	0
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	2	1	0	1	2	0
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	2	1	0	1	2	0
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	2	1	0	1	2	0
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	1	1	0	0	1	0
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	1	0	0	1	1	0
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	2	1	0	1	2	0
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	2	1	0	1	2	0
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	2	1	0	1	2	0
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	2	1	0	1	2	0
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	140	0	71	69	2	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	222	44	108	70	10	1
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	366	250	116	0	14	2
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	1	1	0	0	1	0
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	1	1	0	0	1	0
71820	DENSITY (GM/ML AT 20 C)	2	2	0	0	2	0
71825	ACIDITY, TOTAL (MG/L AS H)	5	1	0	4	2	0
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	47	0	47	0	2	0
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	57	4	50	3	3	0
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	8	0	0	8	5	0
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	106	1	0	105	9	0
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	4	2	0	2	2	0
71885	IRON (UG/L AS FE)	8	0	0	8	1	0
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	126	14	90	22	13	0
71887	NITROGEN, TOTAL, AS NO3 - MG/L	54	0	54	0	4	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	99	55	44	0	4	0
71895	MERCURY, SUSPENDED (UG/L AS HG)	15	0	15	0	2	0
71900	MERCURY, TOTAL (UG/L AS HG)	218	31	131	56	27	2
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	6	2	2	2	3	0
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	23	0	23	0	3	0
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	27	0	27	0	4	0
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	27	0	27	0	4	0
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	21	0	21	0	3	0
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	27	0	27	0	4	0
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	26	0	26	0	4	0
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	225	15	44	166	9	0
72006	SAMPLING CONDITION CODE (BM WELL DATA)	12	12	0	0	2	0
75045	HEPTACHLOR EPOXIDE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75980	ATRAZINE,DE-ISOPROPYL-, WATER, TOTAL UG/L	1	1	0	0	1	0
75981	ATRAZINE,DE-ETHYL-, WATER, TOTAL UG/L	1	1	0	0	1	0
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	1	1	0	0	1	0
77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	1	1	0	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
77128	STYRENE WHOLE WATER,UG/L	3	3	0	0	2	0
77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	1	1	0	0	1	0
77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	1	1	0	0	1	0
77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	1	1	0	0	1	0
77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77224	N-PROPYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	1	1	0	0	1	0
77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	1	1	0	0	1	0
77342	N-BUTYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	1	1	0	0	1	0
77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	1	1	0	0	1	0
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	1	1	0	0	1	0
77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	3	3	0	0	2	0
77825	ALACHLOR WHOLE WATER,UG/L	4	4	0	0	4	0
78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	4	4	0	0	4	0
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	4	4	0	0	4	0
78309	ACENAPHTHENE SEDWETWTMG/KG	4	4	0	0	4	0
78310	BENZIDINE SEDWETWTMG/KG	4	4	0	0	4	0
78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	4	4	0	0	4	0
78312	HEXACHLOROBENZENE SEDWETWTMG/KG	4	4	0	0	4	0
78313	HEXACHLOROETHANE SEDWETWTMG/KG	4	4	0	0	4	0
78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	4	4	0	0	4	0
78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	4	4	0	0	4	0
78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	4	4	0	0	4	0
78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	4	4	0	0	4	0
78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	4	4	0	0	4	0
78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	4	4	0	0	4	0
78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	4	4	0	0	4	0
78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	4	4	0	0	4	0
78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	4	4	0	0	4	0
78323	FLUORANTHENE SEDWETWTMG/KG	4	4	0	0	4	0
78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	4	4	0	0	4	0
78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	4	4	0	0	4	0
78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	4	4	0	0	4	0
78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	4	4	0	0	4	0
78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	4	4	0	0	4	0
78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	4	4	0	0	4	0
78330	ISOPHORONE SSUE SEDWETWTMG/KG	4	4	0	0	4	0
78331	NAPHTHALENE SEDWETWTMG/KG	4	4	0	0	4	0
78332	NITROBENZENE SEDWETWTMG/KG	4	4	0	0	4	0
78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	4	4	0	0	4	0
78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	4	4	0	0	4	0
78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	4	4	0	0	4	0
78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	4	4	0	0	4	0
78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	4	4	0	0	4	0
78343	BENZO(A)PYRENE SEDWETWTMG/KG	4	4	0	0	4	0
78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	4	4	0	0	4	0
78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	4	4	0	0	4	0
78346	CHRYSENE SEDWETWTMG/KG	4	4	0	0	4	0
78347	ACENAPHTHYLENE SEDWETWTMG/K	4	4	0	0	4	0
78348	ANTHRACENE SEDWETWTMG/KG	4	4	0	0	4	0
78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	4	4	0	0	4	0
78350	FLUORENE SEDWETWTMG/KG	4	4	0	0	4	0
78351	PHENANTHRENE SEDWETWTMG/KG	4	4	0	0	4	0
78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	4	4	0	0	4	0
78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	4	4	0	0	4	0
78354	PYRENE SEDWETWTMG/KG	4	4	0	0	4	0
78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	4	4	0	0	4	0
78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	4	4	0	0	4	0
78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	4	4	0	0	4	0
79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	4	4	0	0	4	0
79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	4	4	0	0	4	0
79403	2-NITROPHENOL SEDWETWTMG/KG	4	4	0	0	4	0
79404	4-NITROPHENOL SEDWETWTMG/KG	4	4	0	0	4	0
79405	2,4-DINITROPHENOL SEDWETWTMG/KG	4	4	0	0	4	0
79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	4	4	0	0	4	0

Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	4	4	0	0	4	0
79408	PHENOL SEDWETWTMG/KG	4	4	0	0	4	0
79799	DICOFOL (KELTHANE) SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	8	8	0	0	4	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	225	124	82	19	3	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	87	4	64	19	3	0
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	4	4	0	0	4	0
80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	3	3	0	0	3	0
80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	3	3	0	0	3	0
80216	BED MATERIAL SIEVE DIAMETER, % FINER THAN 19.1MM	1	1	0	0	1	0
80220	SUSPENDED SAND CONCENTRATION (>.0625MM) MG/L	2	2	0	0	1	0
80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	4	4	0	0	4	0
80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	4	4	0	0	4	0
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	153	3	43	107	1	0
81551	XYLENE WHL WATER SMPL UG/L	7	7	0	0	6	0
81555	BROMOBENZENE WHL WATER SMPL UG/L	1	1	0	0	1	0
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	41	22	19	0	3	0
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	4	0	4	0	1	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	23	0	23	0	4	0
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	19	0	19	0	2	0
81654	ISODRIN IN FISH TISSUE WET WEIGHT MG/KG	2	0	2	0	1	0
81724	NICKEL IN FISH TISSUE,DRY WEIGHT,MG/KG	2	0	2	0	1	0
81742	SILVER IN FISH TISSUE WET WEIGHT (MG/KG)PPM	4	0	4	0	1	0
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	3	3	0	0	3	0
81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	8	0	8	0	2	0
81826	BHC(BENZENE HEXACHLORIDE) FISH TISS WET WGT MG/KG	11	0	11	0	1	0
81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	11	0	11	0	1	0
81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	11	0	11	0	1	0
82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	19	0	19	0	2	0
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	4	0	4	0	2	0
82032	CALCIUM - TOTAL UG/L (AS CA)	1	1	0	0	1	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	11	0	11	0	5	0
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	7	7	0	0	1	0
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	400	191	203	6	10	1
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	2	2	0	0	2	0
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	3	3	0	0	3	0
82303	RADON 222, TOTAL IN WATER PC/L	2	2	0	0	2	0
82342	TRITHION, DISSOLVED IN WATER UG/L	1	1	0	0	1	0
82344	METHYLTRITHION, DISSOLVED IN WATER UG/L	1	1	0	0	1	0
82346	ETHION, DISSOLVED IN WATER UG/L	1	1	0	0	1	0
82348	PERTHANE, DISSOLVED IN WATER UG/L	1	1	0	0	1	0
82350	METHOXYCHLOR, DISSOLVED IN WATER UG/L	1	1	0	0	1	0
82354	ENDOSULFAN, DISSOLVED IN WATER UG/L	1	1	0	0	1	0
82360	NAPTHALENES,POLYCHLORINATED DISSOLVED IN WATR UG/L	1	1	0	0	1	0
82398	SAMPLING METHOD (CODES)	50	31	19	0	20	0
82561	NET CONDUCTIVITY IN WATER UMHOS/CM	4	4	0	0	1	0
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	3	3	0	0	3	0
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	3	3	0	0	3	0
82625	DIBROMOCHLOROPROPANE, WATER,TOTAL RECOVERABLE,UG/L	1	1	0	0	1	0
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	23	23	0	0	6	0
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	23	23	0	0	6	0
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	23	23	0	0	6	0
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	23	23	0	0	6	0
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	23	23	0	0	6	0
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0

Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Parameter Code	Name	Total Obs	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	23	23	0	0	6	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	37	18	4	15	21	0
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	37	18	4	15	21	0
84007	ANATOMY ALPHA CODE	52	22	30	0	4	0
84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	33	22	11	0	2	0
84030	CLOUD AMOUNT ALPHA WEATHER CODES	150	150	0	0	12	2
84031	PHYSICAL WEATHER ALPHA WEATHER CODES	53	53	0	0	12	2
84032	STREAM CONDITION ALPHA WEATHER CODES	140	140	0	0	12	2
85000	STREAM MILE, ACTUAL MILES	165	77	7	81	6	1

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0004	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	04/12/73-05/12/78	5	36	
HAFE0019	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	07/18/68-05/12/78	9	90	
HAFE0026	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	10/25/90-08/13/96	5	21	
HAFE0005	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/28/79-06/04/87	8	2	
HAFE0007	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/31/75-06/04/87	11	3	
HAFE0022	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/19/75-06/19/75	0	1	
HAFE0023	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/10/75-08/15/88	13	2	
HAFE0026	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/25/90-08/13/96	5	23	
HAFE0029	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/19/75-06/19/75	0	1	
HAFE0032	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/21/85-12/06/95	10	93	
HAFE0033	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/31/76-08/31/76	0	1	
HAFE0034	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/21/66-06/02/81	15	86	
HAFE0035	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/19/75-06/19/75	0	1	
HAFE0052	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/28/94-09/28/94	0	1	
HAFE0060	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/09/93-05/16/95	2	11	
HAFE0069	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/01/78-10/28/93	15	14	
HAFE0078	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/07/80-12/06/95	15	170	
HAFE0083	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/18/74-10/01/82	8	86	
HAFE0100	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/15/81-10/28/93	12	19	
HAFE0105	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/93-07/07/94	0	8	
HAFE0107	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/16/93-07/07/94	0	2	
HAFE0111	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/93-07/07/94	0	8	
HAFE0112	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	12/17/93-07/07/94	0	2	
HAFE0114	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/93-07/07/94	0	8	
HAFE0115	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/93-07/07/94	0	8	
HAFE0004	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	04/12/73-05/12/78	5	36	
HAFE0019	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	07/18/68-05/12/78	9	94	
HAFE0033	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	12/05/72-03/14/74	1	12	
HAFE0050	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	03/11/96-06/17/96	0	2	
HAFE0072	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/09/80-09/09/80	0	1	
HAFE0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/81-04/21/93	11	7	
HAFE0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/13/73-04/17/73	0	2	
HAFE0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/73-05/23/79	6	40	
HAFE0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/79-06/04/87	8	2	
HAFE0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/75-06/04/87	11	3	
HAFE0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/85-04/15/86	0	2	
HAFE0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/25/81-08/25/81	0	1	
HAFE0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/85-04/14/86	0	2	
HAFE0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	10	107	
HAFE0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/71-02/12/74	2	55	
HAFE0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/88-08/15/88	0	1	
HAFE0024	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/07/85-07/07/88	3	30	
HAFE0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/69-05/19/69	0	1	
HAFE0026	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/90-08/13/96	5	21	
HAFE0027	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/72-04/17/73	0	3	
HAFE0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/71-02/12/74	2	51	
HAFE0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	10	92	
HAFE0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	43	360	
HAFE0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	15	84	
HAFE0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/71-02/12/74	2	54	
HAFE0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/18/69-08/18/69	0	1	
HAFE0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/85-07/08/88	3	30	
HAFE0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/31/85-07/07/88	3	30	
HAFE0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/85-07/08/88	3	30	
HAFE0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/05/85-07/08/88	3	30	
HAFE0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/07/85-07/17/88	3	30	
HAFE0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/30/85-07/08/88	2	27	
HAFE0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/90-06/16/94	3	7	
HAFE0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/72-04/17/73	0	4	
HAFE0049	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/67-06/16/67	0	2	
HAFE0050	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/11/96-06/17/96	0	2	
HAFE0051	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/71-12/11/72	1	27	
HAFE0052	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	48	217	
HAFE0055	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/07/85-07/07/88	3	29	
HAFE0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/29/59-04/29/59	0	1	
HAFE0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/09/93-05/16/95	2	9	
HAFE0061	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/03/88	13	2	
HAFE0062	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	13	2	
HAFE0064	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/93-09/08/93	0	1	
HAFE0065	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	18	107	
HAFE0066	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/01/87-09/07/88	0	10	
HAFE0067	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/87-09/07/88	0	11	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0069	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-12/09/63	17	38	
HAFE0070	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	0	12	
HAFE0072	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	49	233	
HAFE0073	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	13	2	
HAFE0076	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/04/54-09/03/88	34	15	
HAFE0077	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-09/25/74	0	1	
HAFE0078	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	15	159	
HAFE0079	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/18/69-08/18/69	0	1	
HAFE0080	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	32	186	
HAFE0083	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/18/74-06/02/81	7	71	
HAFE0084	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/02/88	13	2	
HAFE0085	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/67-06/16/67	0	9	
HAFE0086	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/69-08/19/69	0	2	
HAFE0087	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	13	2	
HAFE0089	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	0	10	
HAFE0091	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-07/27/88	0	1	
HAFE0092	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/87-09/07/88	0	9	
HAFE0093	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/02/88	13	2	
HAFE0094	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/70-05/08/70	0	1	
HAFE0095	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/04/54-09/07/88	34	11	
HAFE0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/49-08/04/54	4	4	
HAFE0098	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-06/21/89	4	26	
HAFE0099	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	0	11	
HAFE0100	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	37	74	
HAFE0101	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/02/88	13	2	
HAFE0102	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/72-04/17/73	0	3	
HAFE0103	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/84-07/22/85	0	3	
HAFE0104	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-09/08/93	8	26	
HAFE0105	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	0	2	
HAFE0106	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	0	10	
HAFE0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-06/21/89	4	27	
HAFE0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/45-05/03/57	12	2	
HAFE0110	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/19/77-04/19/77	0	1	
HAFE0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	0	2	
HAFE0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/84-12/16/86	2	25	
HAFE0114	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	0	2	
HAFE0115	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	0	2	
HAFE0116	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	13	2	
HAFE0117	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/33-05/16/33	0	1	
HAFE0118	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	0	10	
HAFE0119	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/04/88	13	2	
HAFE0120	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	13	2	
HAFE0052	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	12	116	
HAFE0097	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/17/74-12/17/74	0	1	
HAFE0100	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	12	112	
HAFE0069	No	00019	SAMPLE WEIGHT IN GRAMS	10/11/89-10/28/93	4	12	
HAFE0100	No	00019	SAMPLE WEIGHT IN GRAMS	10/15/81-10/28/93	12	19	
HAFE0001	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/83-04/21/93	9	6	
HAFE0010	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/25/85-04/15/86	0	2	
HAFE0016	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/19/85-04/14/86	0	2	
HAFE0032	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	9	78	
HAFE0033	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	43	250	
HAFE0046	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/04/90-06/16/94	3	7	
HAFE0060	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/17/94-05/16/95	1	6	
HAFE0064	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/08/93-09/08/93	0	1	
HAFE0065	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	18	105	
HAFE0072	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	49	208	
HAFE0078	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	9	77	
HAFE0080	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	18	181	
HAFE0104	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/08/93-09/08/93	0	1	
HAFE0105	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0107	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0111	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0114	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0115	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	0	1	
HAFE0069	No	00023	SAMPLE WEIGHT IN POUNDS	10/11/89-10/28/93	4	12	
HAFE0078	No	00023	SAMPLE WEIGHT IN POUNDS	10/09/80-10/27/83	3	11	
HAFE0083	No	00023	SAMPLE WEIGHT IN POUNDS	10/01/80-10/01/82	2	8	
HAFE0100	No	00023	SAMPLE WEIGHT IN POUNDS	10/15/81-10/28/93	12	19	
HAFE0069	No	00024	SAMPLE LENGTH IN INCHES	10/11/89-10/28/93	4	12	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0083	No	00024	SAMPLE LENGTH IN INCHES	10/01/80-10/01/82	2	8	
HAFE0100	No	00024	SAMPLE LENGTH IN INCHES	10/15/81-10/28/93	12	19	
HAFE0033	No	00025	BAROMETRIC PRESSURE (MM OF HG)	06/07/94-06/07/94	0	1	
HAFE0060	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/09/93-05/16/95	2	8	
HAFE0061	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	0	1	
HAFE0062	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	0	1	
HAFE0064	No	00025	BAROMETRIC PRESSURE (MM OF HG)	09/08/93-09/08/93	0	1	
HAFE0065	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/11/92-09/07/93	1	2	
HAFE0072	No	00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-03/16/95	12	92	
HAFE0073	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	0	1	
HAFE0080	No	00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-09/13/93	10	63	
HAFE0084	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/02/88-08/02/88	0	1	
HAFE0087	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	0	1	
HAFE0091	No	00025	BAROMETRIC PRESSURE (MM OF HG)	07/27/88-07/27/88	0	1	
HAFE0093	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/02/88-08/02/88	0	1	
HAFE0098	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/11/84-06/21/89	4	4	
HAFE0101	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/02/88-08/02/88	0	1	
HAFE0103	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/10/84-07/22/85	0	3	
HAFE0104	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/11/84-09/08/93	8	3	
HAFE0108	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/11/84-06/21/89	4	5	
HAFE0113	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/10/84-11/27/84	0	2	
HAFE0116	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	0	1	
HAFE0119	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/04/88-08/04/88	0	1	
HAFE0120	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	0	1	
HAFE0001	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/16/83-04/21/93	9	6	
HAFE0010	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/25/85-04/15/86	0	2	
HAFE0016	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/19/85-04/14/86	0	2	
HAFE0033	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/07/62-06/07/94	32	102	
HAFE0046	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/04/90-06/16/94	3	8	
HAFE0047	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/20/59-05/20/59	0	1	
HAFE0057	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/30/59-04/30/59	0	1	
HAFE0058	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/29/59-04/29/59	0	1	
HAFE0061	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/88-08/03/88	0	1	
HAFE0062	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/88-08/03/88	0	1	
HAFE0064	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/08/93-09/08/93	0	1	
HAFE0065	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/05/81-09/07/93	11	52	
HAFE0072	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/31/45-03/16/95	49	248	
HAFE0073	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/88-08/25/88	0	2	
HAFE0080	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/28/60-09/13/93	32	184	
HAFE0084	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/02/88-08/02/88	0	1	
HAFE0087	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/88-08/03/88	0	1	
HAFE0090	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/15/70-10/15/70	0	1	
HAFE0091	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/27/88-07/27/88	0	1	
HAFE0093	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/02/88-08/02/88	0	1	
HAFE0094	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/08/70-05/08/70	0	1	
HAFE0098	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/11/84-06/21/89	4	26	
HAFE0101	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/02/88-08/25/88	0	2	
HAFE0103	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/10/84-07/22/85	0	3	
HAFE0104	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/11/84-09/08/93	8	26	
HAFE0108	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/11/84-06/21/89	4	27	
HAFE0109	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/26/45-05/03/57	12	2	
HAFE0113	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/10/84-12/16/86	2	25	
HAFE0116	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/88-08/25/88	0	2	
HAFE0117	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/16/33-05/16/33	0	1	
HAFE0119	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/04/88-08/25/88	0	2	
HAFE0120	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/88-08/03/88	0	1	
HAFE0001	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/21/81-04/21/93	11	7	
HAFE0010	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/25/85-04/15/86	0	2	
HAFE0013	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/25/81-08/25/81	0	1	
HAFE0016	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/19/85-04/14/86	0	2	
HAFE0033	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/07/62-06/07/94	32	109	
HAFE0044	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/20/59-05/20/59	0	1	
HAFE0046	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/90-06/16/94	3	8	
HAFE0047	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/20/59-05/20/59	0	1	
HAFE0056	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/20/59-05/20/59	0	1	
HAFE0057	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/15/59-04/30/59	0	2	
HAFE0058	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/23/59-04/29/59	0	2	
HAFE0061	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/03/88-08/03/88	0	1	
HAFE0062	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/03/88-08/03/88	0	1	
HAFE0064	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/08/93-09/08/93	0	1	
HAFE0065	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/05/81-09/07/93	11	52	
HAFE0072	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/31/45-03/16/95	49	252	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0073	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/03/88-08/25/88	0	2	
HAFE0080	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/28/60-09/13/93	32	188	
HAFE0084	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/02/88-08/02/88	0	1	
HAFE0087	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/03/88-08/03/88	0	1	
HAFE0090	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/15/70-10/15/70	0	1	
HAFE0091	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/27/88-07/27/88	0	1	
HAFE0093	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/02/88-08/02/88	0	1	
HAFE0094	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/08/70-05/08/70	0	1	
HAFE0098	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/11/84-06/21/89	4	26	
HAFE0101	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/02/88-08/25/88	0	2	
HAFE0103	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/10/84-07/22/85	0	3	
HAFE0104	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/11/84-09/08/93	8	26	
HAFE0108	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/11/84-06/21/89	4	27	
HAFE0109	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/26/45-05/03/57	12	2	
HAFE0113	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/10/84-12/16/86	2	25	
HAFE0116	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/03/88-08/25/88	0	2	
HAFE0117	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/16/33-05/16/33	0	1	
HAFE0119	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/04/88-08/25/88	0	2	
HAFE0120	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/03/88-08/03/88	0	1	
HAFE0032	No	00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	9	78	
HAFE0078	No	00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	9	76	
HAFE0032	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/91-04/05/95	4	3	
HAFE0050	Yes	00035	WIND VELOCITY (MILES PER HOUR)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00035	WIND VELOCITY (MILES PER HOUR)	01/13/92-06/13/95	3	40	
HAFE0078	No	00035	WIND VELOCITY (MILES PER HOUR)	01/21/91-04/05/95	4	3	
HAFE0032	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/91-04/05/95	4	2	
HAFE0050	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/13/92-06/13/95	3	40	
HAFE0078	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	01/21/91-04/05/95	4	3	
HAFE0100	No	00039	SAMPLE LENGTH IN MILLIMETERS	10/22/82-10/17/83	0	4	
HAFE0004	No	00041	WEATHER (WMO CODE 4501)	04/12/73-05/23/79	6	41	
HAFE0019	No	00041	WEATHER (WMO CODE 4501)	07/18/68-06/21/79	10	108	
HAFE0026	No	00041	WEATHER (WMO CODE 4501)	10/25/90-08/13/96	5	21	
HAFE0032	No	00041	WEATHER (WMO CODE 4501)	01/29/86-12/06/95	9	80	
HAFE0072	No	00041	WEATHER (WMO CODE 4501)	03/29/79-06/04/79	0	4	
HAFE0078	No	00041	WEATHER (WMO CODE 4501)	01/29/86-12/06/95	9	80	
HAFE0080	No	00041	WEATHER (WMO CODE 4501)	03/29/79-06/04/79	0	4	
HAFE0072	No	00045	PRECIPITATION, TOTAL (INCHES PER DAY)	05/06/91-05/06/91	0	1	
HAFE0033	No	00049	SURFACE AREA IN SQUARE MILES	03/04/59-08/20/68	9	52	
HAFE0072	No	00049	SURFACE AREA IN SQUARE MILES	06/19/61-06/19/61	0	1	
HAFE0052	Yes	00057	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	12	173	A
HAFE0001	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/16/83-04/27/89	5	2	
HAFE0058	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	04/29/59-04/29/59	0	1	
HAFE0025	No	00060	FLOW, STREAM, MEAN DAILY CFS	05/19/69-05/19/69	0	1	
HAFE0032	No	00060	FLOW, STREAM, MEAN DAILY CFS	01/21/85-12/18/85	0	12	
HAFE0033	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	9	89	
HAFE0034	No	00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	14	69	
HAFE0052	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	23	264	T,A
HAFE0072	No	00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-06/19/61	0	3	
HAFE0078	No	00060	FLOW, STREAM, MEAN DAILY CFS	04/07/80-12/18/85	5	67	
HAFE0080	No	00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-10/22/64	4	3	
HAFE0083	No	00060	FLOW, STREAM, MEAN DAILY CFS	03/18/74-12/02/80	6	52	
HAFE0100	No	00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-04/03/84	15	86	
HAFE0105	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	0	3	
HAFE0111	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	0	3	
HAFE0114	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	0	3	
HAFE0115	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	0	3	
HAFE0010	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/85-04/15/86	0	2	
HAFE0016	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/19/85-04/14/86	0	2	
HAFE0033	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	43	352	
HAFE0052	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	46	147	
HAFE0061	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/03/88	13	2	
HAFE0062	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	13	2	
HAFE0064	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/08/93-09/08/93	0	1	
HAFE0065	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	18	103	
HAFE0069	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-12/09/63	17	34	
HAFE0072	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	49	238	
HAFE0073	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	13	2	
HAFE0077	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-09/25/74	0	1	
HAFE0080	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	18	182	
HAFE0084	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/02/88	13	2	
HAFE0087	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	13	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0091	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/88-07/27/88	0	1	
HAFE0093	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/02/88	13	2	
HAFE0097	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/10/49-12/17/74	25	4	
HAFE0098	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-06/21/89	4	26	
HAFE0100	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	38	62	
HAFE0101	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/02/88	13	2	
HAFE0103	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/10/84-07/22/85	0	3	
HAFE0104	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-09/08/93	8	26	
HAFE0108	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-06/21/89	4	27	
HAFE0113	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/10/84-12/16/86	2	25	
HAFE0116	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/88-08/03/88	0	1	
HAFE0119	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/04/88	13	2	
HAFE0120	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	13	2	
HAFE0032	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	01/21/91-12/06/95	4	62	
HAFE0078	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	01/21/91-12/06/95	4	62	
HAFE0033	No	00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	43	249	
HAFE0050	Yes	00065	STAGE, STREAM (FEET)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	00065	STAGE, STREAM (FEET)	01/13/92-05/03/94	2	21	
HAFE0065	No	00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	18	102	
HAFE0072	No	00065	STAGE, STREAM (FEET)	03/17/81-03/16/95	13	96	
HAFE0080	No	00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	18	147	
HAFE0098	No	00065	STAGE, STREAM (FEET)	09/29/88-09/29/88	0	1	
HAFE0108	No	00065	STAGE, STREAM (FEET)	09/29/88-03/28/89	0	2	
HAFE0019	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/21/71-06/30/71	0	3	
HAFE0020	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/08/71-02/12/74	2	56	
HAFE0026	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/25/90-04/20/92	1	5	
HAFE0030	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/19/71-02/12/74	2	52	
HAFE0033	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/08/69-12/03/73	4	9	
HAFE0036	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/08/71-02/12/74	2	56	
HAFE0037	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/28/69-08/18/69	0	2	
HAFE0051	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/19/71-12/11/72	1	28	
HAFE0052	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/08/60-06/11/74	14	77	
HAFE0069	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/02/62-12/09/63	1	24	
HAFE0076	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/04/54-08/04/54	0	3	
HAFE0079	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/28/69-08/18/69	0	2	
HAFE0086	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/29/69-08/19/69	0	2	
HAFE0095	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/04/54-08/04/54	0	1	
HAFE0097	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/04/54-08/04/54	0	1	
HAFE0100	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/17/67-06/11/74	6	58	
HAFE0032	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	01/21/85-12/18/85	0	12	
HAFE0078	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	04/07/80-12/18/85	5	68	
HAFE0001	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/21/81-08/21/81	0	1	
HAFE0013	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/25/81-08/25/81	0	1	
HAFE0026	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/03/94-05/16/96	1	8	
HAFE0032	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	9	78	
HAFE0034	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	15	77	
HAFE0072	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	14	96	
HAFE0078	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	9	78	
HAFE0080	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	14	96	
HAFE0083	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/18/74-06/02/81	7	60	
HAFE0001	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/16/91-04/21/93	2	3	
HAFE0010	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/85-04/15/86	0	2	
HAFE0016	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/19/85-04/14/86	0	2	
HAFE0025	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/19/69-05/19/69	0	1	
HAFE0026	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/29/91-02/02/93	1	6	
HAFE0033	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	22	106	
HAFE0046	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/04/90-06/16/94	3	7	
HAFE0052	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	17	166	A
HAFE0057	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/15/59-04/15/59	0	1	
HAFE0065	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/19/85-04/02/86	0	2	
HAFE0072	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-06/19/61	0	3	
HAFE0080	No	00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-04/18/61	0	4	
HAFE0094	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/08/70-05/08/70	0	1	
HAFE0100	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	17	159	
HAFE0033	No	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	10/08/69-09/23/71	1	3	
HAFE0052	Yes	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	07/17/67-10/20/70	3	29	
HAFE0100	No	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	07/17/67-10/20/70	3	29	
HAFE0052	Yes	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	02/02/71-01/28/75	3	30	
HAFE0100	No	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	02/02/71-01/28/75	3	31	
HAFE0052	Yes	00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	9	105	
HAFE0100	No	00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	9	104	
HAFE0078	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/08/94-06/08/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0023	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/15/88-08/15/88	0	1	
HAFE0026	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/27/92-08/13/96	4	18	
HAFE0032	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	10	92	
HAFE0050	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	15	161	A
HAFE0060	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/94-05/16/95	0	5	
HAFE0070	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/06/87-10/06/87	0	1	
HAFE0078	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	15	159	
HAFE0097	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/17/74-12/17/74	0	1	
HAFE0100	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-07/03/84	4	43	
HAFE0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/81-04/21/93	11	7	
HAFE0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/85-04/15/86	0	2	
HAFE0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/25/81-08/25/81	0	1	
HAFE0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/19/85-04/14/86	0	2	
HAFE0024	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/07/85-07/07/88	3	30	
HAFE0025	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/69-05/19/69	0	1	
HAFE0026	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/25/90-05/16/96	5	20	
HAFE0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	30	155	T,S
HAFE0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	15	79	
HAFE0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/30/85-07/08/88	3	30	
HAFE0039	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/31/85-07/07/88	3	30	
HAFE0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/30/85-07/08/88	3	30	
HAFE0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/85-07/08/88	3	30	
HAFE0042	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/07/85-07/17/88	3	30	
HAFE0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/59-05/20/59	0	1	
HAFE0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/30/85-07/08/88	2	27	
HAFE0046	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/04/90-06/16/94	3	7	
HAFE0047	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/59-05/20/59	0	1	
HAFE0052	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	27	271	T,A,S
HAFE0055	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/07/85-07/07/88	3	29	
HAFE0056	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/59-05/20/59	0	1	
HAFE0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/15/59-04/15/59	0	1	
HAFE0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/59-04/23/59	0	1	
HAFE0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/93-05/16/95	2	9	
HAFE0061	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/03/88	13	2	
HAFE0062	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/74-08/03/88	13	2	
HAFE0064	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/08/93-09/08/93	0	1	
HAFE0065	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/19/85-09/07/93	7	7	
HAFE0066	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0067	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0070	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/16/87-09/07/88	0	11	
HAFE0072	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	34	164	T,S
HAFE0073	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/74-08/03/88	13	2	
HAFE0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/03/88	0	12	
HAFE0077	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-09/25/74	0	1	
HAFE0080	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/13/93	32	107	S
HAFE0083	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	7	76	
HAFE0084	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/02/88	13	2	
HAFE0087	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/74-08/03/88	13	2	
HAFE0089	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0091	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/88-07/27/88	0	1	
HAFE0092	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/87-09/07/88	0	12	
HAFE0093	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/02/88	13	2	
HAFE0094	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/08/70-05/08/70	0	1	
HAFE0095	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0098	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-06/21/89	4	26	
HAFE0099	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0100	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	17	161	
HAFE0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/02/88	13	2	
HAFE0103	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/84-07/22/85	0	3	
HAFE0104	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-09/08/93	8	26	
HAFE0105	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	0	2	
HAFE0106	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0107	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/94-07/07/94	0	1	
HAFE0108	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-06/21/89	4	27	
HAFE0109	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/57-05/03/57	0	1	
HAFE0110	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/19/77-04/19/77	0	1	
HAFE0111	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	0	2	
HAFE0112	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/94-07/07/94	0	1	
HAFE0113	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/84-12/16/86	2	25	
HAFE0114	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	0	2	
HAFE0115	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	10/07/93-07/07/94	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0116	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/03/88-08/03/88	0	1	
HAFE0118	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	0	12	
HAFE0119	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/04/88-08/04/88	0	1	
HAFE0120	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/03/88-08/03/88	0	1	
HAFE0078	No	00096	SALINITY AT 25 DEGREES C (MG/ML)	02/26/85-02/26/85	0	1	
HAFE0032	No	00098	SAMPLING STATION LOCATION VERTICAL (METERS)	01/21/91-12/06/95	4	62	
HAFE0078	No	00098	SAMPLING STATION LOCATION VERTICAL (METERS)	01/21/91-12/06/95	4	62	
HAFE0007	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/31/75-03/28/79	3	2	
HAFE0026	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	01/27/92-08/13/96	4	18	
HAFE0050	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	14	143	A
HAFE0060	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/09/93-05/16/95	2	8	
HAFE0066	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0067	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0070	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0076	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/88-08/03/88	0	1	
HAFE0089	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0092	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0095	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0099	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0100	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-07/03/84	3	28	
HAFE0105	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	0	2	
HAFE0106	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0107	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/07/94-07/07/94	0	1	
HAFE0111	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	0	2	
HAFE0112	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/07/94-07/07/94	0	1	
HAFE0114	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	0	2	
HAFE0115	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	0	2	
HAFE0118	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	0	1	
HAFE0001	No	00300	OXYGEN, DISSOLVED MG/L	05/12/92-04/21/93	0	2	
HAFE0002	No	00300	OXYGEN, DISSOLVED MG/L	09/20/72-04/17/73	0	3	
HAFE0004	No	00300	OXYGEN, DISSOLVED MG/L	04/12/73-05/23/79	6	40	
HAFE0005	No	00300	OXYGEN, DISSOLVED MG/L	03/28/79-06/04/87	8	2	
HAFE0007	No	00300	OXYGEN, DISSOLVED MG/L	06/04/87-06/04/87	0	1	
HAFE0010	No	00300	OXYGEN, DISSOLVED MG/L	04/15/86-04/15/86	0	1	
HAFE0016	No	00300	OXYGEN, DISSOLVED MG/L	04/14/86-04/14/86	0	1	
HAFE0019	No	00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	10	107	
HAFE0022	No	00300	OXYGEN, DISSOLVED MG/L	06/19/75-06/19/75	0	1	
HAFE0023	No	00300	OXYGEN, DISSOLVED MG/L	02/10/75-08/15/88	13	2	
HAFE0024	No	00300	OXYGEN, DISSOLVED MG/L	06/07/85-07/07/88	3	30	
HAFE0026	No	00300	OXYGEN, DISSOLVED MG/L	10/25/90-05/29/91	0	3	
HAFE0027	No	00300	OXYGEN, DISSOLVED MG/L	05/24/72-04/17/73	0	4	
HAFE0029	No	00300	OXYGEN, DISSOLVED MG/L	06/19/75-06/19/75	0	1	
HAFE0032	No	00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	10	90	
HAFE0033	No	00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	24	66	
HAFE0034	No	00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	15	86	
HAFE0035	No	00300	OXYGEN, DISSOLVED MG/L	06/19/75-06/19/75	0	1	
HAFE0036	No	00300	OXYGEN, DISSOLVED MG/L	12/04/73-12/04/73	0	1	
HAFE0037	No	00300	OXYGEN, DISSOLVED MG/L	07/28/69-08/18/69	0	2	
HAFE0038	No	00300	OXYGEN, DISSOLVED MG/L	05/30/85-07/08/88	3	30	
HAFE0039	No	00300	OXYGEN, DISSOLVED MG/L	05/31/85-07/07/88	3	30	
HAFE0040	No	00300	OXYGEN, DISSOLVED MG/L	05/30/85-07/08/88	3	30	
HAFE0041	No	00300	OXYGEN, DISSOLVED MG/L	06/05/85-07/08/88	3	30	
HAFE0042	No	00300	OXYGEN, DISSOLVED MG/L	06/07/85-07/17/88	3	30	
HAFE0045	No	00300	OXYGEN, DISSOLVED MG/L	09/30/85-07/08/88	2	27	
HAFE0046	No	00300	OXYGEN, DISSOLVED MG/L	12/12/90-06/16/94	3	6	
HAFE0048	No	00300	OXYGEN, DISSOLVED MG/L	05/24/72-04/17/73	0	4	
HAFE0049	No	00300	OXYGEN, DISSOLVED MG/L	06/14/67-06/16/67	0	2	
HAFE0052	Yes	00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	36	159	T,S
HAFE0055	No	00300	OXYGEN, DISSOLVED MG/L	06/07/85-07/07/88	3	29	
HAFE0061	No	00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	0	1	
HAFE0062	No	00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	0	1	
HAFE0064	No	00300	OXYGEN, DISSOLVED MG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	00300	OXYGEN, DISSOLVED MG/L	04/02/86-09/07/93	7	5	
HAFE0069	No	00300	OXYGEN, DISSOLVED MG/L	09/18/46-12/09/63	17	38	
HAFE0072	No	00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	34	128	T,S
HAFE0073	No	00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	0	1	
HAFE0076	No	00300	OXYGEN, DISSOLVED MG/L	08/04/54-08/04/54	0	3	
HAFE0078	No	00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	15	158	
HAFE0079	No	00300	OXYGEN, DISSOLVED MG/L	07/28/69-08/18/69	0	2	
HAFE0080	No	00300	OXYGEN, DISSOLVED MG/L	09/28/60-09/13/93	32	96	S
HAFE0083	No	00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	7	78	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0084	No	00300	OXYGEN, DISSOLVED MG/L	08/02/88-08/02/88	0	1	
HAFE0085	No	00300	OXYGEN, DISSOLVED MG/L	06/14/67-06/16/67	0	9	
HAFE0086	No	00300	OXYGEN, DISSOLVED MG/L	07/29/69-08/19/69	0	2	
HAFE0087	No	00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	0	1	
HAFE0091	No	00300	OXYGEN, DISSOLVED MG/L	07/27/88-07/27/88	0	1	
HAFE0093	No	00300	OXYGEN, DISSOLVED MG/L	08/02/88-08/02/88	0	1	
HAFE0095	No	00300	OXYGEN, DISSOLVED MG/L	08/04/54-08/04/54	0	1	
HAFE0097	No	00300	OXYGEN, DISSOLVED MG/L	10/10/49-12/17/74	25	5	
HAFE0098	No	00300	OXYGEN, DISSOLVED MG/L	10/11/84-06/21/89	4	4	
HAFE0100	No	00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	36	133	T,S
HAFE0101	No	00300	OXYGEN, DISSOLVED MG/L	08/02/88-08/02/88	0	1	
HAFE0102	No	00300	OXYGEN, DISSOLVED MG/L	05/24/72-04/17/73	0	4	
HAFE0103	No	00300	OXYGEN, DISSOLVED MG/L	04/22/85-07/22/85	0	2	
HAFE0104	No	00300	OXYGEN, DISSOLVED MG/L	10/11/84-09/08/93	8	3	
HAFE0108	No	00300	OXYGEN, DISSOLVED MG/L	10/11/84-06/21/89	4	5	
HAFE0113	No	00300	OXYGEN, DISSOLVED MG/L	10/10/84-11/27/84	0	2	
HAFE0116	No	00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	0	1	
HAFE0119	No	00300	OXYGEN, DISSOLVED MG/L	08/04/88-08/04/88	0	1	
HAFE0120	No	00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	0	1	
HAFE0032	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	01/21/85-12/18/85	0	11	
HAFE0052	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	45	214	T,A,S
HAFE0069	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-12/09/63	17	38	
HAFE0072	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/28/60-01/06/86	25	7	
HAFE0078	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/07/80-12/18/85	5	79	
HAFE0080	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/28/60-04/18/61	0	2	
HAFE0097	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/10/49-12/17/74	25	4	
HAFE0100	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	37	122	T,S
HAFE0004	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/03/76-03/03/76	0	1	
HAFE0005	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/28/79-06/04/87	8	2	
HAFE0007	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/31/75-06/04/87	11	3	
HAFE0019	No	00310	BOD, 5 DAY, 20 DEG C MG/L	12/09/68-06/21/79	10	24	
HAFE0022	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/75-06/19/75	0	1	
HAFE0023	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/10/75-08/15/88	13	2	
HAFE0026	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/25/90-05/16/96	5	20	
HAFE0027	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/24/72-05/24/72	0	1	
HAFE0029	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/75-06/19/75	0	1	
HAFE0032	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	4	60	
HAFE0033	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/08/69-12/03/73	4	9	
HAFE0035	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/75-06/19/75	0	1	
HAFE0048	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/24/72-05/25/72	0	2	
HAFE0049	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/14/67-06/16/67	0	2	
HAFE0052	Yes	00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	38	172	T,S
HAFE0069	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-12/09/63	17	38	
HAFE0076	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/04/54-08/04/54	0	3	
HAFE0078	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	4	60	
HAFE0085	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/14/67-06/16/67	0	9	
HAFE0095	No	00310	BOD, 5 DAY, 20 DEG C MG/L	08/04/54-08/04/54	0	1	
HAFE0097	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/10/49-12/17/74	25	4	
HAFE0100	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	38	141	T,S
HAFE0102	No	00310	BOD, 5 DAY, 20 DEG C MG/L	05/24/72-04/17/73	0	3	
HAFE0037	No	00311	BOD, DISSOLVED, 5 DAY MG/L	07/28/69-08/18/69	0	2	
HAFE0079	No	00311	BOD, DISSOLVED, 5 DAY MG/L	07/28/69-08/18/69	0	2	
HAFE0086	No	00311	BOD, DISSOLVED, 5 DAY MG/L	07/29/69-08/19/69	0	2	
HAFE0007	No	00340	COD, .25N K2CR2O7 MG/L	07/31/75-06/04/87	11	2	
HAFE0022	No	00340	COD, .25N K2CR2O7 MG/L	06/19/75-06/19/75	0	1	
HAFE0023	No	00340	COD, .25N K2CR2O7 MG/L	02/10/75-08/15/88	13	2	
HAFE0026	No	00340	COD, .25N K2CR2O7 MG/L	10/25/90-05/16/96	5	20	
HAFE0029	No	00340	COD, .25N K2CR2O7 MG/L	06/19/75-06/19/75	0	1	
HAFE0035	No	00340	COD, .25N K2CR2O7 MG/L	06/19/75-06/19/75	0	1	
HAFE0052	Yes	00340	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	17	156	A
HAFE0066	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	11	
HAFE0067	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	11	
HAFE0070	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	12	
HAFE0076	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/03/88	0	12	
HAFE0083	No	00340	COD, .25N K2CR2O7 MG/L	07/29/74-05/31/78	3	2	
HAFE0089	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	12	
HAFE0092	No	00340	COD, .25N K2CR2O7 MG/L	10/07/87-09/07/88	0	10	
HAFE0095	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	11	
HAFE0099	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	12	
HAFE0100	No	00340	COD, .25N K2CR2O7 MG/L	05/03/77-10/06/81	4	9	
HAFE0106	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	11	
HAFE0118	No	00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	0	11	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0001	No	00400	PH (STANDARD UNITS)	08/21/81-04/21/93	11	7	
HAFE0004	No	00400	PH (STANDARD UNITS)	04/12/73-05/23/79	6	40	
HAFE0005	No	00400	PH (STANDARD UNITS)	03/28/79-06/04/87	8	2	
HAFE0007	No	00400	PH (STANDARD UNITS)	07/31/75-06/04/87	11	3	
HAFE0010	No	00400	PH (STANDARD UNITS)	09/25/85-04/15/86	0	2	
HAFE0013	No	00400	PH (STANDARD UNITS)	08/25/81-08/25/81	0	1	
HAFE0016	No	00400	PH (STANDARD UNITS)	09/19/85-04/14/86	0	2	
HAFE0019	No	00400	PH (STANDARD UNITS)	07/18/68-06/21/79	10	107	
HAFE0020	No	00400	PH (STANDARD UNITS)	07/08/71-02/12/74	2	56	
HAFE0022	No	00400	PH (STANDARD UNITS)	06/19/75-06/19/75	0	1	
HAFE0023	No	00400	PH (STANDARD UNITS)	02/10/75-08/15/88	13	2	
HAFE0024	No	00400	PH (STANDARD UNITS)	06/07/85-02/17/88	2	27	
HAFE0025	No	00400	PH (STANDARD UNITS)	05/19/69-05/19/69	0	1	
HAFE0026	No	00400	PH (STANDARD UNITS)	10/25/90-08/13/96	5	20	
HAFE0027	No	00400	PH (STANDARD UNITS)	05/24/72-05/24/72	0	1	
HAFE0029	No	00400	PH (STANDARD UNITS)	06/19/75-06/19/75	0	1	
HAFE0030	No	00400	PH (STANDARD UNITS)	07/19/71-02/12/74	2	52	
HAFE0032	No	00400	PH (STANDARD UNITS)	01/21/85-12/06/95	10	91	
HAFE0033	No	00400	PH (STANDARD UNITS)	08/09/63-06/07/94	30	152	T,S
HAFE0034	No	00400	PH (STANDARD UNITS)	03/21/66-06/02/81	15	56	
HAFE0035	No	00400	PH (STANDARD UNITS)	06/19/75-06/19/75	0	1	
HAFE0036	No	00400	PH (STANDARD UNITS)	07/08/71-02/12/74	2	54	
HAFE0038	No	00400	PH (STANDARD UNITS)	05/30/85-05/27/88	2	28	
HAFE0039	No	00400	PH (STANDARD UNITS)	05/31/85-02/16/88	2	26	
HAFE0040	No	00400	PH (STANDARD UNITS)	05/30/85-05/27/88	2	27	
HAFE0041	No	00400	PH (STANDARD UNITS)	06/05/85-05/26/88	2	27	
HAFE0042	No	00400	PH (STANDARD UNITS)	06/07/85-02/16/88	2	26	
HAFE0044	No	00400	PH (STANDARD UNITS)	05/20/59-05/20/59	0	1	
HAFE0045	No	00400	PH (STANDARD UNITS)	09/30/85-02/16/88	2	23	
HAFE0046	No	00400	PH (STANDARD UNITS)	10/04/90-06/16/94	3	7	
HAFE0047	No	00400	PH (STANDARD UNITS)	05/20/59-05/20/59	0	1	
HAFE0048	No	00400	PH (STANDARD UNITS)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	00400	PH (STANDARD UNITS)	03/11/96-06/17/96	0	2	
HAFE0051	Yes	00400	PH (STANDARD UNITS)	07/19/71-12/11/72	1	28	
HAFE0052	Yes	00400	PH (STANDARD UNITS)	09/18/46-06/13/95	48	227	T,A,S
HAFE0055	No	00400	PH (STANDARD UNITS)	06/07/85-05/27/88	2	26	
HAFE0056	No	00400	PH (STANDARD UNITS)	05/20/59-05/20/59	0	1	
HAFE0057	No	00400	PH (STANDARD UNITS)	04/15/59-04/15/59	0	1	
HAFE0058	No	00400	PH (STANDARD UNITS)	04/23/59-04/23/59	0	1	
HAFE0060	No	00400	PH (STANDARD UNITS)	03/09/93-05/16/95	2	9	
HAFE0061	No	00400	PH (STANDARD UNITS)	09/25/74-08/03/88	13	2	
HAFE0062	No	00400	PH (STANDARD UNITS)	09/24/74-08/03/88	13	2	
HAFE0064	No	00400	PH (STANDARD UNITS)	09/08/93-09/08/93	0	1	
HAFE0065	No	00400	PH (STANDARD UNITS)	09/19/85-09/07/93	7	7	
HAFE0069	No	00400	PH (STANDARD UNITS)	09/18/46-12/09/63	17	38	
HAFE0072	No	00400	PH (STANDARD UNITS)	09/28/60-03/16/95	34	163	T,S
HAFE0073	No	00400	PH (STANDARD UNITS)	09/24/74-08/03/88	13	2	
HAFE0076	No	00400	PH (STANDARD UNITS)	08/04/54-08/04/54	0	3	
HAFE0077	No	00400	PH (STANDARD UNITS)	09/25/74-09/25/74	0	1	
HAFE0078	No	00400	PH (STANDARD UNITS)	04/07/80-12/06/95	15	154	
HAFE0080	No	00400	PH (STANDARD UNITS)	09/28/60-07/19/93	32	105	S
HAFE0083	No	00400	PH (STANDARD UNITS)	05/20/74-06/02/81	7	47	
HAFE0084	No	00400	PH (STANDARD UNITS)	09/25/74-08/02/88	13	2	
HAFE0087	No	00400	PH (STANDARD UNITS)	09/24/74-08/03/88	13	2	
HAFE0090	No	00400	PH (STANDARD UNITS)	10/15/70-10/15/70	0	1	
HAFE0091	No	00400	PH (STANDARD UNITS)	07/27/88-07/27/88	0	1	
HAFE0093	No	00400	PH (STANDARD UNITS)	09/25/74-08/02/88	13	2	
HAFE0094	No	00400	PH (STANDARD UNITS)	05/08/70-05/08/70	0	1	
HAFE0095	No	00400	PH (STANDARD UNITS)	08/04/54-08/04/54	0	1	
HAFE0097	No	00400	PH (STANDARD UNITS)	10/10/49-12/17/74	25	5	
HAFE0098	No	00400	PH (STANDARD UNITS)	10/11/84-06/21/89	4	26	
HAFE0100	No	00400	PH (STANDARD UNITS)	09/18/46-07/03/84	37	90	S
HAFE0101	No	00400	PH (STANDARD UNITS)	09/25/74-08/02/88	13	2	
HAFE0102	No	00400	PH (STANDARD UNITS)	05/24/72-05/24/72	0	1	
HAFE0103	No	00400	PH (STANDARD UNITS)	10/10/84-07/22/85	0	3	
HAFE0104	No	00400	PH (STANDARD UNITS)	10/11/84-09/08/93	8	26	
HAFE0105	No	00400	PH (STANDARD UNITS)	10/07/93-07/07/94	0	2	
HAFE0107	No	00400	PH (STANDARD UNITS)	07/07/94-07/07/94	0	1	
HAFE0108	No	00400	PH (STANDARD UNITS)	10/11/84-06/21/89	4	27	
HAFE0109	No	00400	PH (STANDARD UNITS)	01/26/45-05/03/57	12	2	
HAFE0110	No	00400	PH (STANDARD UNITS)	04/19/77-04/19/77	0	1	
HAFE0111	No	00400	PH (STANDARD UNITS)	10/07/93-07/07/94	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0112	No	00400	PH (STANDARD UNITS)	07/07/94-07/07/94	0	1	
HAFE0113	No	00400	PH (STANDARD UNITS)	10/10/84-12/16/86	2	25	
HAFE0114	No	00400	PH (STANDARD UNITS)	10/07/93-07/07/94	0	2	
HAFE0115	No	00400	PH (STANDARD UNITS)	10/07/93-07/07/94	0	2	
HAFE0116	No	00400	PH (STANDARD UNITS)	09/24/74-08/03/88	13	2	
HAFE0119	No	00400	PH (STANDARD UNITS)	09/24/74-08/04/88	13	2	
HAFE0120	No	00400	PH (STANDARD UNITS)	09/24/74-08/03/88	13	2	
HAFE0001	No	00403	PH, LAB, STANDARD UNITS SU	08/21/81-04/21/93	11	7	
HAFE0004	No	00403	PH, LAB, STANDARD UNITS SU	12/19/73-12/19/73	0	1	
HAFE0005	No	00403	PH, LAB, STANDARD UNITS SU	03/28/79-06/04/87	8	2	
HAFE0007	No	00403	PH, LAB, STANDARD UNITS SU	07/31/75-06/04/87	11	3	
HAFE0010	No	00403	PH, LAB, STANDARD UNITS SU	09/25/85-04/15/86	0	2	
HAFE0013	No	00403	PH, LAB, STANDARD UNITS SU	08/25/81-08/25/81	0	1	
HAFE0016	No	00403	PH, LAB, STANDARD UNITS SU	09/19/85-04/14/86	0	2	
HAFE0019	No	00403	PH, LAB, STANDARD UNITS SU	12/09/68-12/19/73	5	8	
HAFE0022	No	00403	PH, LAB, STANDARD UNITS SU	06/19/75-06/19/75	0	1	
HAFE0023	No	00403	PH, LAB, STANDARD UNITS SU	08/15/88-08/15/88	0	1	
HAFE0026	No	00403	PH, LAB, STANDARD UNITS SU	10/25/90-05/16/96	5	19	
HAFE0029	No	00403	PH, LAB, STANDARD UNITS SU	06/19/75-06/19/75	0	1	
HAFE0032	No	00403	PH, LAB, STANDARD UNITS SU	08/05/85-08/05/85	0	1	
HAFE0033	No	00403	PH, LAB, STANDARD UNITS SU	01/20/81-04/02/86	5	10	
HAFE0034	No	00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	6	45	
HAFE0035	No	00403	PH, LAB, STANDARD UNITS SU	06/19/75-06/19/75	0	1	
HAFE0046	No	00403	PH, LAB, STANDARD UNITS SU	10/04/90-06/16/94	3	7	
HAFE0052	Yes	00403	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	27	292	T,A,S
HAFE0060	No	00403	PH, LAB, STANDARD UNITS SU	06/16/94-05/16/95	0	5	
HAFE0064	No	00403	PH, LAB, STANDARD UNITS SU	09/08/93-09/08/93	0	1	
HAFE0065	No	00403	PH, LAB, STANDARD UNITS SU	09/19/85-09/07/93	7	3	
HAFE0066	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0067	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0070	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0072	No	00403	PH, LAB, STANDARD UNITS SU	09/14/81-03/16/95	13	98	
HAFE0076	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/03/88	0	12	
HAFE0078	No	00403	PH, LAB, STANDARD UNITS SU	06/09/80-11/15/83	3	6	
HAFE0080	No	00403	PH, LAB, STANDARD UNITS SU	01/19/81-09/13/93	12	72	
HAFE0083	No	00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	6	55	
HAFE0089	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0091	No	00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	0	1	
HAFE0092	No	00403	PH, LAB, STANDARD UNITS SU	10/07/87-09/07/88	0	12	
HAFE0095	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0098	No	00403	PH, LAB, STANDARD UNITS SU	09/29/88-06/21/89	0	2	
HAFE0099	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0100	No	00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	17	160	
HAFE0103	No	00403	PH, LAB, STANDARD UNITS SU	10/10/84-07/22/85	0	3	
HAFE0104	No	00403	PH, LAB, STANDARD UNITS SU	09/08/93-09/08/93	0	1	
HAFE0106	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0108	No	00403	PH, LAB, STANDARD UNITS SU	09/29/88-06/21/89	0	3	
HAFE0118	No	00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0033	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	15	101	
HAFE0044	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/20/59-05/20/59	0	1	
HAFE0047	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/20/59-05/20/59	0	1	
HAFE0056	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/20/59-05/20/59	0	1	
HAFE0057	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/59-04/15/59	0	1	
HAFE0058	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/23/59-04/23/59	0	1	
HAFE0072	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/28/60-01/06/86	25	38	S
HAFE0080	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/04/79-09/05/79	0	4	
HAFE0060	No	00406	PH, FIELD, STANDARD UNITS SU	03/09/93-03/17/94	1	4	
HAFE0066	No	00406	PH, FIELD, STANDARD UNITS SU	12/01/87-09/07/88	0	10	
HAFE0067	No	00406	PH, FIELD, STANDARD UNITS SU	11/16/87-09/07/88	0	11	
HAFE0070	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0076	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/03/88	0	12	
HAFE0089	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	0	10	
HAFE0092	No	00406	PH, FIELD, STANDARD UNITS SU	10/07/87-09/07/88	0	9	
HAFE0095	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	0	11	
HAFE0099	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	0	12	
HAFE0106	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	0	11	
HAFE0118	No	00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	0	10	
HAFE0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/83-05/12/92	8	2	
HAFE0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/19/73-12/19/73	0	1	
HAFE0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/28/79-06/04/87	8	2	
HAFE0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/31/75-06/04/87	11	3	
HAFE0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/19/85-09/19/85	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0019	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/68-12/19/73	5	8	
HAFE0020	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/71-02/12/74	2	55	
HAFE0022	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/75-06/19/75	0	1	
HAFE0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/88-08/15/88	0	1	
HAFE0024	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/85-07/07/88	3	30	
HAFE0025	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/19/69-05/19/69	0	1	
HAFE0026	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/25/90-05/16/96	5	20	
HAFE0027	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	0	1	
HAFE0029	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/75-06/19/75	0	1	
HAFE0030	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/71-02/12/74	2	51	
HAFE0032	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	10	89	
HAFE0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	19	122	
HAFE0035	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/75-06/19/75	0	1	
HAFE0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/71-02/12/74	2	56	
HAFE0038	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/30/85-07/08/88	3	30	
HAFE0039	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/85-07/07/88	3	30	
HAFE0040	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/30/85-07/08/88	3	30	
HAFE0041	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/85-07/08/88	3	30	
HAFE0042	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/85-07/17/88	3	30	
HAFE0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0045	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/30/85-07/08/88	2	27	
HAFE0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/92-07/08/92	0	1	
HAFE0047	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0048	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/96-06/17/96	0	2	
HAFE0051	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/71-12/11/72	1	28	
HAFE0052	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	48	320	T,A,S
HAFE0055	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/85-07/07/88	3	29	
HAFE0056	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0057	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/15/59-04/15/59	0	1	
HAFE0058	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/59-04/23/59	0	1	
HAFE0060	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/09/93-05/16/95	2	9	
HAFE0061	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	0	1	
HAFE0062	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	0	1	
HAFE0066	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0067	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0069	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	17	38	
HAFE0070	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0072	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-05/25/93	32	67	S
HAFE0073	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	0	1	
HAFE0076	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/54-09/03/88	34	15	
HAFE0078	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	15	138	
HAFE0080	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-03/18/91	30	68	S
HAFE0084	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/02/88-08/02/88	0	1	
HAFE0087	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	0	1	
HAFE0089	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0091	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1	
HAFE0092	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/87-09/07/88	0	12	
HAFE0093	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/02/88-08/02/88	0	1	
HAFE0095	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/54-09/07/88	34	13	
HAFE0097	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/49-08/04/54	4	4	
HAFE0098	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/29/88-09/29/88	0	1	
HAFE0099	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0100	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	38	172	T,S
HAFE0101	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/02/88-08/02/88	0	1	
HAFE0102	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	0	1	
HAFE0103	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/84-04/22/85	0	2	
HAFE0105	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	0	3	
HAFE0106	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0107	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/93-07/07/94	0	2	
HAFE0108	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/29/88-09/29/88	0	1	
HAFE0111	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	0	3	
HAFE0112	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/93-07/07/94	0	2	
HAFE0114	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	0	3	
HAFE0115	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	0	3	
HAFE0116	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	0	1	
HAFE0118	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0119	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/88-08/04/88	0	1	
HAFE0120	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	0	1	
HAFE0001	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	04/27/89-04/21/93	3	5	
HAFE0046	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/04/90-06/16/94	3	7	
HAFE0072	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	05/11/87-05/11/87	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0098	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	03/28/89-06/21/89	0	2	
HAFE0105	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0107	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	12/16/93-12/16/93	0	1	
HAFE0111	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0112	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	12/17/93-12/17/93	0	1	
HAFE0114	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0115	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0027	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	0	1	
HAFE0033	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/12/73-12/03/73	0	4	
HAFE0048	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/24/72-05/25/72	0	2	
HAFE0052	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/18/67-06/05/79	11	49	
HAFE0100	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/10/67-06/05/79	11	56	
HAFE0102	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	0	1	
HAFE0052	Yes	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	09/18/46-10/18/49	3	8	
HAFE0069	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	09/18/46-10/18/49	3	14	
HAFE0076	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/04/54-08/04/54	0	3	
HAFE0095	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/04/54-08/04/54	0	1	
HAFE0097	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/10/49-08/04/54	4	4	
HAFE0100	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	09/18/46-10/18/49	3	8	
HAFE0001	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/12/92-05/12/92	0	1	
HAFE0025	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/19/69-05/19/69	0	1	
HAFE0033	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	15	120	
HAFE0044	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/20/59-05/20/59	0	1	
HAFE0046	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/08/92-07/08/92	0	1	
HAFE0047	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/20/59-05/20/59	0	1	
HAFE0056	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/20/59-05/20/59	0	1	
HAFE0057	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/15/59-04/15/59	0	1	
HAFE0058	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/23/59-04/23/59	0	1	
HAFE0061	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	0	1	
HAFE0062	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	0	1	
HAFE0072	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-01/06/94	33	14	
HAFE0073	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	0	1	
HAFE0080	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-03/05/90	29	12	
HAFE0084	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/02/88-08/02/88	0	1	
HAFE0087	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	0	1	
HAFE0091	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/27/88-07/27/88	0	1	
HAFE0093	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/02/88-08/02/88	0	1	
HAFE0094	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/08/70-05/08/70	0	1	
HAFE0098	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/29/88-09/29/88	0	1	
HAFE0101	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/02/88-08/02/88	0	1	
HAFE0108	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/29/88-09/29/88	0	1	
HAFE0109	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/26/45-05/03/57	12	2	
HAFE0116	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	0	1	
HAFE0117	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/16/33-05/16/33	0	1	
HAFE0119	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/04/88-08/04/88	0	1	
HAFE0120	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	0	1	
HAFE0025	No	00445	CARBONATE ION (MG/L AS CO3)	05/19/69-05/19/69	0	1	
HAFE0033	No	00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	15	102	
HAFE0061	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	0	1	
HAFE0062	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	0	1	
HAFE0072	No	00445	CARBONATE ION (MG/L AS CO3)	09/28/60-01/06/94	33	9	
HAFE0073	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	0	1	
HAFE0080	No	00445	CARBONATE ION (MG/L AS CO3)	09/28/60-04/18/61	0	2	
HAFE0084	No	00445	CARBONATE ION (MG/L AS CO3)	08/02/88-08/02/88	0	1	
HAFE0087	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	0	1	
HAFE0091	No	00445	CARBONATE ION (MG/L AS CO3)	07/27/88-07/27/88	0	1	
HAFE0093	No	00445	CARBONATE ION (MG/L AS CO3)	08/02/88-08/02/88	0	1	
HAFE0098	No	00445	CARBONATE ION (MG/L AS CO3)	09/29/88-09/29/88	0	1	
HAFE0101	No	00445	CARBONATE ION (MG/L AS CO3)	08/02/88-08/02/88	0	1	
HAFE0105	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	0	1	
HAFE0107	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	0	1	
HAFE0108	No	00445	CARBONATE ION (MG/L AS CO3)	09/29/88-09/29/88	0	1	
HAFE0111	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	0	1	
HAFE0112	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	0	1	
HAFE0114	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	0	1	
HAFE0115	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	0	1	
HAFE0116	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	0	1	
HAFE0119	No	00445	CARBONATE ION (MG/L AS CO3)	08/04/88-08/04/88	0	1	
HAFE0120	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	0	1	
HAFE0072	No	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	11/09/87-11/09/87	0	1	
HAFE0098	No	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	06/21/89-06/21/89	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0108	No	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	03/28/89-06/21/89	0	2	
HAFE0001	No	00449	BICARBONATE,INCREMENTAL TITRATION,(HCO3) LAB MG/L	04/21/93-04/21/93	0	1	
HAFE0046	No	00449	BICARBONATE,INCREMENTAL TITRATION,(HCO3) LAB MG/L	04/21/93-06/16/94	1	2	
HAFE0001	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	04/27/89-05/12/92	3	4	
HAFE0046	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/04/90-07/08/92	1	5	
HAFE0072	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	03/05/87-11/09/87	0	5	
HAFE0080	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	03/05/87-11/09/87	0	5	
HAFE0098	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	03/28/89-06/21/89	0	2	
HAFE0072	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	11/09/87-11/07/94	6	19	
HAFE0080	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/90-01/29/92	1	8	
HAFE0033	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	06/07/94-06/07/94	0	1	
HAFE0064	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-03/16/95	7	44	
HAFE0080	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-07/19/93	5	20	
HAFE0104	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	09/08/93-09/08/93	0	1	
HAFE0032	No	00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	9	80	
HAFE0034	No	00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	13	66	
HAFE0078	No	00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	9	80	
HAFE0083	No	00480	SALINITY - PARTS PER THOUSAND	03/18/74-09/17/79	5	51	
HAFE0005	No	00500	RESIDUE, TOTAL (MG/L)	03/28/79-03/28/79	0	1	
HAFE0007	No	00500	RESIDUE, TOTAL (MG/L)	07/31/75-03/28/79	3	2	
HAFE0019	No	00500	RESIDUE, TOTAL (MG/L)	12/09/68-06/21/79	10	21	
HAFE0022	No	00500	RESIDUE, TOTAL (MG/L)	06/19/75-06/19/75	0	1	
HAFE0023	No	00500	RESIDUE, TOTAL (MG/L)	02/10/75-02/10/75	0	1	
HAFE0026	No	00500	RESIDUE, TOTAL (MG/L)	10/25/90-05/16/96	5	20	
HAFE0029	No	00500	RESIDUE, TOTAL (MG/L)	06/19/75-06/19/75	0	1	
HAFE0035	No	00500	RESIDUE, TOTAL (MG/L)	06/19/75-06/19/75	0	1	
HAFE0052	Yes	00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	28	116	S
HAFE0060	No	00500	RESIDUE, TOTAL (MG/L)	03/09/93-05/16/95	2	9	
HAFE0069	No	00500	RESIDUE, TOTAL (MG/L)	10/13/49-12/09/63	14	25	
HAFE0076	No	00500	RESIDUE, TOTAL (MG/L)	08/04/54-08/04/54	0	3	
HAFE0078	No	00500	RESIDUE, TOTAL (MG/L)	04/07/80-05/02/83	3	28	
HAFE0095	No	00500	RESIDUE, TOTAL (MG/L)	08/04/54-08/04/54	0	1	
HAFE0097	No	00500	RESIDUE, TOTAL (MG/L)	10/13/49-08/04/54	4	2	
HAFE0100	No	00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	28	99	S
HAFE0105	No	00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	0	3	
HAFE0107	No	00500	RESIDUE, TOTAL (MG/L)	12/16/93-07/07/94	0	2	
HAFE0111	No	00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	0	3	
HAFE0112	No	00500	RESIDUE, TOTAL (MG/L)	12/17/93-07/07/94	0	2	
HAFE0114	No	00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	0	3	
HAFE0115	No	00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	0	3	
HAFE0005	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/28/79-03/28/79	0	1	
HAFE0007	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/31/75-03/28/79	3	2	
HAFE0019	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	12/09/68-06/21/79	10	21	
HAFE0022	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0023	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	02/10/75-02/10/75	0	1	
HAFE0026	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/25/90-05/16/96	5	20	
HAFE0029	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0035	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0005	No	00510	RESIDUE, TOTAL FIXED (MG/L)	03/28/79-03/28/79	0	1	
HAFE0007	No	00510	RESIDUE, TOTAL FIXED (MG/L)	07/31/75-03/28/79	3	2	
HAFE0019	No	00510	RESIDUE, TOTAL FIXED (MG/L)	12/09/68-06/21/79	10	21	
HAFE0022	No	00510	RESIDUE, TOTAL FIXED (MG/L)	06/19/75-06/19/75	0	1	
HAFE0023	No	00510	RESIDUE, TOTAL FIXED (MG/L)	02/10/75-02/10/75	0	1	
HAFE0026	No	00510	RESIDUE, TOTAL FIXED (MG/L)	10/25/90-05/16/96	5	20	
HAFE0029	No	00510	RESIDUE, TOTAL FIXED (MG/L)	06/19/75-06/19/75	0	1	
HAFE0035	No	00510	RESIDUE, TOTAL FIXED (MG/L)	06/19/75-06/19/75	0	1	
HAFE0032	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/21/85-12/18/85	0	12	
HAFE0052	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/29/60-12/10/74	14	79	
HAFE0069	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/02/62-12/09/63	1	22	
HAFE0076	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/04/54-08/04/54	0	3	
HAFE0078	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/07/80-12/18/85	5	68	
HAFE0095	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/04/54-08/04/54	0	1	
HAFE0097	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/04/54-08/04/54	0	1	
HAFE0100	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/17/67-12/10/74	7	61	
HAFE0105	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	0	3	
HAFE0107	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/16/93-07/07/94	0	2	
HAFE0111	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	0	3	
HAFE0112	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/17/93-07/07/94	0	2	
HAFE0114	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	0	3	
HAFE0005	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/28/79-06/04/87	8	2	
HAFE0007	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/75-06/04/87	11	3	
HAFE0019	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/09/68-06/21/79	10	21	
HAFE0022	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0023	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/10/75-08/15/88	13	2	
HAFE0026	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/25/90-05/16/96	5	20	
HAFE0029	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0032	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	9	80	
HAFE0033	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/08/69-05/30/73	3	7	
HAFE0034	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	15	77	
HAFE0035	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0050	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	34	308	T,A,S
HAFE0066	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0067	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0069	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/02/62-12/09/63	1	22	
HAFE0070	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0076	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/04/54-09/03/88	34	15	
HAFE0078	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	9	80	
HAFE0083	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/74-06/02/81	7	67	
HAFE0089	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0092	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/87-09/07/88	0	12	
HAFE0095	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/04/54-09/07/88	34	13	
HAFE0097	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/04/54-08/04/54	0	1	
HAFE0099	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0100	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	17	164	
HAFE0105	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	0	2	
HAFE0106	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0107	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/07/94-07/07/94	0	1	
HAFE0111	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	0	2	
HAFE0112	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/07/94-07/07/94	0	1	
HAFE0114	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	0	2	
HAFE0115	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	0	2	
HAFE0118	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	0	12	
HAFE0005	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/28/79-06/04/87	8	2	
HAFE0007	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/31/75-06/04/87	11	3	
HAFE0019	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	12/09/68-06/21/79	10	21	
HAFE0022	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0023	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/10/75-08/15/88	13	2	
HAFE0026	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/25/90-05/16/96	5	20	
HAFE0029	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0035	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0005	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/28/79-06/04/87	8	2	
HAFE0007	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/31/75-06/04/87	11	3	
HAFE0019	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	12/09/68-06/21/79	10	21	
HAFE0022	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0023	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	02/10/75-08/15/88	13	2	
HAFE0026	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/25/90-05/16/96	5	20	
HAFE0029	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0035	No	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/19/75-06/19/75	0	1	
HAFE0072	No	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	06/23/94-06/23/94	0	1	
HAFE0072	No	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	06/23/94-06/23/94	0	1	
HAFE0032	No	00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	10	88	
HAFE0033	No	00600	NITROGEN, TOTAL (MG/L AS N)	08/31/76-08/31/76	0	1	
HAFE0072	No	00600	NITROGEN, TOTAL (MG/L AS N)	08/31/76-09/14/81	5	27	
HAFE0078	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	15	147	
HAFE0080	No	00600	NITROGEN, TOTAL (MG/L AS N)	03/29/79-07/20/81	2	26	
HAFE0110	No	00600	NITROGEN, TOTAL (MG/L AS N)	04/19/77-04/19/77	0	1	
HAFE0001	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	06/16/83-06/16/83	0	1	
HAFE0072	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	09/05/79-11/06/85	6	16	
HAFE0080	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	09/05/79-11/06/85	6	15	
HAFE0033	No	00603	NITROGEN TOTAL, BOTTOM DEPOSITS (MG/KG-N DRY WGT)	05/17/72-05/17/72	0	1	
HAFE0072	No	00603	NITROGEN TOTAL, BOTTOM DEPOSITS (MG/KG-N DRY WGT)	05/17/72-05/17/72	0	1	
HAFE0032	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/21/85-12/18/85	0	11	
HAFE0033	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-08/31/76	0	1	
HAFE0052	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/10/74-10/23/74	0	2	
HAFE0072	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-01/06/86	9	30	
HAFE0078	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/07/80-12/18/85	5	68	
HAFE0080	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/29/79-01/07/86	6	26	
HAFE0097	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/17/74-12/17/74	0	1	
HAFE0100	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/10/74-10/23/74	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0110	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/19/77-04/19/77	0	1	
HAFE0072	No	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/28/79-11/06/85	5	15	
HAFE0080	No	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/24/79-05/20/81	1	13	
HAFE0001	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/21/93-04/21/93	0	1	
HAFE0032	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	10	92	
HAFE0033	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/20/72-06/07/94	21	4	
HAFE0046	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/21/93-06/16/94	1	2	
HAFE0061	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0062	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0064	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0065	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/07/93-09/07/93	0	1	
HAFE0072	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-03/16/95	15	112	
HAFE0073	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0078	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	15	149	
HAFE0080	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-09/13/93	13	83	
HAFE0084	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	0	1	
HAFE0087	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0091	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/27/88-07/27/88	0	1	
HAFE0093	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	0	1	
HAFE0098	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	0	2	
HAFE0101	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0104	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0105	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0107	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0108	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	0	3	
HAFE0111	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0112	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/17/93-07/07/94	0	2	
HAFE0114	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0115	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0116	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0119	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0120	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0001	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/16/91-05/12/92	1	2	
HAFE0002	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/20/72-04/17/73	0	3	
HAFE0004	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/12/73-05/23/79	6	41	
HAFE0005	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/28/79-06/04/87	8	2	
HAFE0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/31/75-06/04/87	11	3	
HAFE0019	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	9	100	
HAFE0022	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0023	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/10/75-08/15/88	13	2	
HAFE0024	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/85-07/07/88	3	30	
HAFE0026	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/25/90-05/16/96	5	20	
HAFE0027	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/72-04/17/73	0	4	
HAFE0029	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0033	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/03/73-08/31/76	2	2	
HAFE0034	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/75-06/02/81	5	36	
HAFE0035	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0037	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/28/69-08/18/69	0	2	
HAFE0038	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/85-07/08/88	3	30	
HAFE0039	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/31/85-07/07/88	3	30	
HAFE0040	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/85-07/08/88	3	30	
HAFE0041	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/05/85-07/08/88	3	30	
HAFE0042	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/85-07/17/88	3	30	
HAFE0045	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/30/85-07/08/88	2	27	
HAFE0046	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/04/90-07/08/92	1	5	
HAFE0048	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/72-04/17/73	0	5	
HAFE0050	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	10	112	
HAFE0055	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/85-07/07/88	3	29	
HAFE0060	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/09/93-05/16/95	2	9	
HAFE0072	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-08/31/92	16	67	
HAFE0079	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/28/69-08/18/69	0	2	
HAFE0080	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/79-08/31/92	13	66	
HAFE0083	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/74-06/02/81	7	38	
HAFE0086	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/69-08/19/69	0	2	
HAFE0097	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/17/74-12/17/74	0	1	
HAFE0100	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	10	114	
HAFE0102	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/72-04/17/73	0	4	
HAFE0105	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0107	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0110	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/19/77-04/19/77	0	1	
HAFE0111	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0112	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/17/93-07/07/94	0	2	
HAFE0114	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0115	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0033	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	05/17/72-08/31/76	4	2	
HAFE0072	No	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/31/76-08/31/76	0	1	
HAFE0001	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/21/93-04/21/93	0	1	
HAFE0032	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	9	79	
HAFE0033	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/30/73-06/07/94	21	3	
HAFE0046	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/21/93-06/16/94	1	2	
HAFE0061	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0062	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0064	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0065	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/07/93-09/07/93	0	1	
HAFE0072	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-03/16/95	9	73	
HAFE0073	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0078	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	9	79	
HAFE0080	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-09/13/93	7	44	
HAFE0084	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	0	1	
HAFE0087	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0091	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/27/88-07/27/88	0	1	
HAFE0093	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	0	1	
HAFE0098	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	0	2	
HAFE0101	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0103	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/10/84-07/22/85	0	3	
HAFE0104	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0108	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	0	3	
HAFE0116	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0119	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0120	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0001	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/16/91-05/12/92	1	2	
HAFE0004	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/12/73-05/23/79	6	41	
HAFE0005	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/28/79-06/04/87	8	2	
HAFE0007	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/31/75-06/04/87	11	3	
HAFE0019	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	9	99	
HAFE0022	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0023	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/75-08/15/88	13	2	
HAFE0026	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/25/90-05/16/96	5	20	
HAFE0029	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0032	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/18/85	0	12	
HAFE0033	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/17/73-08/31/76	2	6	
HAFE0034	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	7	60	
HAFE0035	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0046	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/04/90-07/08/92	1	5	
HAFE0060	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/09/93-10/20/93	0	3	
HAFE0061	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0062	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0072	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-08/31/92	17	13	
HAFE0073	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0077	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0078	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/18/85	5	69	
HAFE0080	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/22/90-08/31/92	1	11	
HAFE0083	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	7	63	
HAFE0084	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0087	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0093	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0101	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0116	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0119	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0120	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0032	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	9	78	
HAFE0033	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/04/65-09/12/73	8	53	
HAFE0044	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/59-05/20/59	0	1	
HAFE0047	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/59-05/20/59	0	1	
HAFE0056	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/59-05/20/59	0	1	
HAFE0057	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/15/59-04/15/59	0	1	
HAFE0058	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/23/59-04/23/59	0	1	
HAFE0072	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/06/85-09/04/90	4	4	
HAFE0078	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	9	78	
HAFE0080	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/07/86-09/04/90	4	2	
HAFE0004	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/73-09/29/76	3	27	
HAFE0005	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/28/79-06/04/87	8	2	
HAFE0007	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/31/75-06/04/87	11	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0019	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	6	69	
HAFE0022	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0023	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/10/75-08/15/88	13	2	
HAFE0024	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/85-07/07/88	3	30	
HAFE0026	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/25/90-05/16/96	5	20	
HAFE0029	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0032	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/18/85	0	12	
HAFE0033	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/17/73-08/31/76	2	6	
HAFE0034	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/21/66-06/02/81	15	70	
HAFE0035	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0038	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/85-07/08/88	3	30	
HAFE0039	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/31/85-07/07/88	3	30	
HAFE0040	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/85-07/08/88	3	30	
HAFE0041	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/85-07/08/88	3	30	
HAFE0042	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/85-07/17/88	3	30	
HAFE0045	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/30/85-07/08/88	2	27	
HAFE0050	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-07/19/83	16	61	
HAFE0055	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/85-07/07/88	3	29	
HAFE0061	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0062	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0072	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-08/31/76	1	2	
HAFE0073	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0077	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0078	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/18/85	5	69	
HAFE0083	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	7	63	
HAFE0084	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0087	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0093	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0100	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-10/23/74	7	60	
HAFE0101	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0116	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0119	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0120	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0033	No	00621	NITRATE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	05/17/72-05/17/72	0	1	
HAFE0001	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/16/83-06/16/83	0	1	
HAFE0033	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/07/94-06/07/94	0	1	
HAFE0064	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0065	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/07/93-09/07/93	0	1	
HAFE0072	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	15	55	
HAFE0080	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-11/06/85	6	27	
HAFE0104	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0105	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0107	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0111	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0112	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/17/93-07/07/94	0	2	
HAFE0114	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0115	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0072	No	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	03/29/79-11/06/85	6	26	
HAFE0080	No	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	03/29/79-11/06/85	6	24	
HAFE0002	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/20/72-04/17/73	0	3	
HAFE0004	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/73-05/23/79	6	41	
HAFE0005	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/28/79-06/04/87	8	2	
HAFE0007	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/31/75-06/04/87	11	3	
HAFE0019	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	9	100	
HAFE0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0023	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/10/75-08/15/88	13	2	
HAFE0026	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/90-05/16/96	5	20	
HAFE0027	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/72-04/17/73	0	4	
HAFE0029	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0032	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	10	88	
HAFE0033	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-06/07/94	17	2	
HAFE0034	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/75-06/02/81	5	36	
HAFE0035	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/75-06/19/75	0	1	
HAFE0037	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/69-08/18/69	0	1	
HAFE0048	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/72-04/17/73	0	5	
HAFE0050	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	20	226	T,A
HAFE0064	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0065	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/07/93-09/07/93	0	1	
HAFE0066	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0067	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	11	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0070	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	12	
HAFE0072	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	18	123	
HAFE0076	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/03/88	0	12	
HAFE0078	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	15	145	
HAFE0079	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/69-08/18/69	0	1	
HAFE0080	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/29/79-09/13/93	14	93	
HAFE0083	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/74-06/02/81	7	38	
HAFE0086	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/69-07/29/69	0	1	
HAFE0089	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	12	
HAFE0092	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/87-09/07/88	0	10	
HAFE0095	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0097	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/17/74-12/17/74	0	1	
HAFE0099	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	12	
HAFE0100	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	10	112	
HAFE0102	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/72-04/17/73	0	4	
HAFE0104	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0105	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0106	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0107	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0110	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/19/77-04/19/77	0	1	
HAFE0111	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0112	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/17/93-07/07/94	0	2	
HAFE0114	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0115	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0118	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0033	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	08/31/76-08/31/76	0	1	
HAFE0001	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/27/89-05/12/92	3	4	
HAFE0002	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/20/72-04/17/73	0	3	
HAFE0004	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/76-05/23/79	2	14	
HAFE0010	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/85-04/15/86	0	2	
HAFE0016	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/19/85-04/14/86	0	2	
HAFE0019	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/22/76-06/21/79	2	31	
HAFE0027	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/72-04/17/73	0	4	
HAFE0032	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	9	79	
HAFE0033	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/17/73-04/02/86	12	38	
HAFE0037	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/28/69-08/18/69	0	2	
HAFE0046	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/90-03/19/91	0	2	
HAFE0048	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/72-04/17/73	0	5	
HAFE0050	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/11/96-03/11/96	0	1	
HAFE0052	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	20	227	T,A
HAFE0060	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/17/94-05/16/95	1	6	
HAFE0061	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0062	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0065	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/19/85-04/02/86	0	2	
HAFE0066	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0067	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0070	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	12	
HAFE0072	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-08/31/92	17	39	
HAFE0073	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0076	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/03/88	0	12	
HAFE0077	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0078	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	9	79	
HAFE0079	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/28/69-08/18/69	0	2	
HAFE0080	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/29/79-08/31/92	13	37	
HAFE0084	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0086	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/69-08/19/69	0	2	
HAFE0087	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0089	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	12	
HAFE0092	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/87-09/07/88	0	10	
HAFE0093	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0095	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0097	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/17/74-12/17/74	0	1	
HAFE0099	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	12	
HAFE0100	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	9	108	
HAFE0101	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	0	1	
HAFE0102	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/72-04/17/73	0	4	
HAFE0105	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0106	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0107	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0110	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/19/77-04/19/77	0	1	
HAFE0111	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0112	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/17/93-07/07/94	0	2	
HAFE0114	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0115	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	0	3	
HAFE0116	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0118	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	0	11	
HAFE0119	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0120	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	0	1	
HAFE0001	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/83-04/21/93	9	2	
HAFE0033	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/73-06/07/94	21	5	
HAFE0046	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-06/16/94	1	2	
HAFE0061	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0062	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0064	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0065	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/07/93-09/07/93	0	1	
HAFE0072	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-03/16/95	15	113	
HAFE0073	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0080	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-09/13/93	14	84	
HAFE0084	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/02/88-08/02/88	0	1	
HAFE0087	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0091	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/88-07/27/88	0	1	
HAFE0093	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/02/88-08/02/88	0	1	
HAFE0098	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/29/88-06/21/89	0	2	
HAFE0101	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0103	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/10/84-07/22/85	0	3	
HAFE0104	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/08/93-09/08/93	0	1	
HAFE0105	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0107	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0108	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/29/88-06/21/89	0	3	
HAFE0111	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0112	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/17/93-07/07/94	0	2	
HAFE0114	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0115	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	0	2	
HAFE0116	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0119	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	0	1	
HAFE0120	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	0	1	
HAFE0033	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	08/31/76-08/31/76	0	1	
HAFE0072	No	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	08/31/76-08/31/76	0	1	
HAFE0025	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/19/69-05/19/69	0	1	
HAFE0033	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/19/65-09/19/72	6	9	
HAFE0057	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/15/59-04/15/59	0	1	
HAFE0072	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/25/79-06/12/79	0	5	
HAFE0080	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/09/65-06/12/79	13	6	
HAFE0052	Yes	00655	PHOSPHATE, POLY (MG/L AS PO4)	01/02/79-06/05/79	0	6	
HAFE0002	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/20/72-04/17/73	0	3	
HAFE0024	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/07/85-07/07/88	3	30	
HAFE0027	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/24/72-04/17/73	0	4	
HAFE0032	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	10	91	
HAFE0033	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/16/83-03/16/83	0	1	
HAFE0038	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/30/85-07/08/88	3	30	
HAFE0039	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/31/85-07/07/88	3	30	
HAFE0040	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/30/85-07/08/88	3	30	
HAFE0041	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/85-07/08/88	3	30	
HAFE0042	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/07/85-07/17/88	3	30	
HAFE0045	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/30/85-07/08/88	2	27	
HAFE0048	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/24/72-04/17/73	0	5	
HAFE0052	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/10/74-12/10/75	1	8	
HAFE0055	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/07/85-07/07/88	3	29	
HAFE0072	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/02/81-01/06/86	4	13	
HAFE0078	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	15	149	
HAFE0080	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/02/81-11/30/82	1	7	
HAFE0100	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/10/74-12/10/75	1	8	
HAFE0102	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/24/72-04/17/73	0	4	
HAFE0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/27/89-04/21/93	3	5	
HAFE0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/79-06/04/87	8	2	
HAFE0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/31/75-06/04/87	11	3	
HAFE0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/25/85-04/15/86	0	2	
HAFE0016	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/19/85-04/14/86	0	2	
HAFE0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/75-06/19/75	0	1	
HAFE0023	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/10/75-08/15/88	13	2	
HAFE0026	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/90-05/16/96	5	20	
HAFE0029	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/75-06/19/75	0	1	
HAFE0032	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	10	88	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0033	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/69-06/07/94	24	43	
HAFE0034	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	10	66	
HAFE0035	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/75-06/19/75	0	1	
HAFE0046	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/04/90-04/21/93	2	6	
HAFE0050	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	20	228	T,A
HAFE0060	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/09/93-05/16/95	2	9	
HAFE0064	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/93-09/08/93	0	1	
HAFE0065	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/19/85-09/07/93	7	3	
HAFE0066	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	11	
HAFE0067	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	11	
HAFE0070	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	12	
HAFE0072	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	18	124	
HAFE0076	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/03/88	0	12	
HAFE0078	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	15	144	
HAFE0080	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/29/79-09/13/93	14	94	
HAFE0083	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/18/74-06/02/81	7	67	
HAFE0089	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	12	
HAFE0092	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/87-09/07/88	0	10	
HAFE0095	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	11	
HAFE0099	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	12	
HAFE0100	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	10	112	
HAFE0104	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/93-09/08/93	0	1	
HAFE0105	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	0	3	
HAFE0106	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	11	
HAFE0107	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/16/93-07/07/94	0	2	
HAFE0111	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	0	3	
HAFE0112	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/17/93-07/07/94	0	2	
HAFE0114	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	0	3	
HAFE0115	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	0	3	
HAFE0118	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	0	11	
HAFE0001	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/83-04/21/93	9	2	
HAFE0033	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/07/94-06/07/94	0	1	
HAFE0046	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/21/93-06/16/94	1	2	
HAFE0064	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/08/93-09/08/93	0	1	
HAFE0065	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/93-09/07/93	0	1	
HAFE0072	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	15	123	
HAFE0080	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-09/13/93	14	94	
HAFE0104	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/08/93-09/08/93	0	1	
HAFE0105	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	0	2	
HAFE0107	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/16/93-12/16/93	0	1	
HAFE0111	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	0	2	
HAFE0112	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/17/93-12/17/93	0	1	
HAFE0114	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	0	2	
HAFE0115	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	0	2	
HAFE0033	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/83-04/21/93	9	2	
HAFE0005	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/28/79-06/04/87	8	2	
HAFE0007	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/31/75-06/04/87	11	3	
HAFE0022	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/19/75-06/19/75	0	1	
HAFE0023	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/10/75-08/15/88	13	2	
HAFE0026	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/25/90-04/20/92	1	5	
HAFE0029	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/19/75-06/19/75	0	1	
HAFE0033	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/16/83-06/07/94	11	3	
HAFE0035	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/19/75-06/19/75	0	1	
HAFE0046	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-06/16/94	1	2	
HAFE0061	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	0	1	
HAFE0062	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	0	1	
HAFE0064	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/08/93-09/08/93	0	1	
HAFE0065	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/07/93-09/07/93	0	1	
HAFE0072	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-03/16/95	13	96	
HAFE0073	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	0	1	
HAFE0080	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-09/13/93	11	67	
HAFE0084	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/02/88-08/02/88	0	1	
HAFE0087	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	0	1	
HAFE0091	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1	
HAFE0093	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/02/88-08/02/88	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0098	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/29/88-06/21/89	0	2	
HAFE0101	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	0	1	
HAFE0104	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/08/93-09/08/93	0	1	
HAFE0108	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/29/88-06/21/89	0	3	
HAFE0116	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	0	1	
HAFE0119	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	0	1	
HAFE0120	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	0	1	
HAFE0001	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/89-04/21/93	3	5	
HAFE0002	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/20/72-02/13/73	0	2	
HAFE0005	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/28/79-06/04/87	8	2	
HAFE0007	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/31/75-06/04/87	11	3	
HAFE0019	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/16/78-06/21/79	1	15	
HAFE0022	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/75-06/19/75	0	1	
HAFE0023	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/10/75-08/15/88	13	2	
HAFE0026	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/25/90-05/16/96	5	20	
HAFE0027	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/24/72-02/13/73	0	3	
HAFE0029	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/75-06/19/75	0	1	
HAFE0032	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	9	80	
HAFE0034	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/08/75-04/08/81	5	39	
HAFE0035	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/75-06/19/75	0	1	
HAFE0046	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/04/90-06/16/94	3	6	
HAFE0048	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/24/72-02/13/73	0	4	
HAFE0052	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	8	65	
HAFE0060	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/09/93-05/16/95	2	9	
HAFE0072	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/31/76-09/14/81	5	17	
HAFE0078	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	9	80	
HAFE0080	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/25/79-03/17/81	1	15	
HAFE0083	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/30/74-04/08/81	6	40	
HAFE0100	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/18/76-10/02/84	8	52	
HAFE0102	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/24/72-02/13/73	0	3	
HAFE0105	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	0	3	
HAFE0107	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	12/16/93-07/07/94	0	2	
HAFE0111	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	0	3	
HAFE0112	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	12/17/93-07/07/94	0	2	
HAFE0114	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	0	3	
HAFE0115	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	0	3	
HAFE0072	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-03/16/95	15	37	
HAFE0080	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-07/20/81	2	10	
HAFE0105	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0107	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0111	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0112	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0114	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0115	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0105	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0107	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0111	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0112	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0114	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0115	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0033	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	0	1	
HAFE0072	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	0	1	
HAFE0033	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	0	1	
HAFE0072	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	0	1	
HAFE0072	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-03/16/95	15	37	
HAFE0080	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-05/20/81	2	8	
HAFE0002	No	00690	CARBON, TOTAL (MG/L AS C)	09/20/72-02/13/73	0	2	
HAFE0027	No	00690	CARBON, TOTAL (MG/L AS C)	05/24/72-02/13/73	0	3	
HAFE0048	No	00690	CARBON, TOTAL (MG/L AS C)	05/24/72-02/13/73	0	4	
HAFE0102	No	00690	CARBON, TOTAL (MG/L AS C)	05/24/72-02/13/73	0	3	
HAFE0105	No	00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0107	No	00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0111	No	00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0112	No	00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0114	No	00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0115	No	00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	0	1	
HAFE0033	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	10/08/69-12/03/73	4	9	
HAFE0052	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	9	40	
HAFE0072	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/28/60-04/18/61	0	2	
HAFE0080	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/28/60-04/18/61	0	2	
HAFE0100	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	9	40	
HAFE0001	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/21/81-08/21/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/21/79-03/21/79	0	1	
HAFE0005	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/87-06/04/87	0	1	
HAFE0007	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/28/79-06/04/87	8	2	
HAFE0013	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/25/81-08/25/81	0	1	
HAFE0023	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/15/88-08/15/88	0	1	
HAFE0025	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/19/69-05/19/69	0	1	
HAFE0026	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/25/90-05/16/96	5	20	
HAFE0033	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	19	128	
HAFE0044	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0047	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0050	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	38	193	T,A,S
HAFE0056	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0057	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/15/59-04/15/59	0	1	
HAFE0058	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/59-04/23/59	0	1	
HAFE0060	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/09/93-05/16/95	2	9	
HAFE0061	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	0	1	
HAFE0062	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	0	1	
HAFE0066	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0067	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0069	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	17	37	
HAFE0070	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0072	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/06/86	25	65	S
HAFE0073	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	0	1	
HAFE0076	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/54-09/03/88	34	15	
HAFE0077	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	0	1	
HAFE0078	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/11/84-07/11/84	0	1	
HAFE0080	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/07/86	25	44	S
HAFE0084	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	0	1	
HAFE0087	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	0	1	
HAFE0089	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0092	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/87-09/07/88	0	12	
HAFE0093	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	0	1	
HAFE0095	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/54-09/07/88	34	13	
HAFE0097	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/49-08/04/54	4	4	
HAFE0099	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0100	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	38	164	T,S
HAFE0101	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	0	1	
HAFE0105	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0106	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0107	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/16/93-12/16/93	0	1	
HAFE0111	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0112	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/17/93-12/17/93	0	1	
HAFE0114	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0115	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	0	2	
HAFE0116	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	0	1	
HAFE0118	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0119	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	0	1	
HAFE0120	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	0	1	
HAFE0025	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/19/69-05/19/69	0	1	
HAFE0033	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	16	121	
HAFE0044	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0047	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0056	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/59-05/20/59	0	1	
HAFE0057	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/15/59-04/15/59	0	1	
HAFE0058	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/23/59-04/23/59	0	1	
HAFE0072	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/06/86	25	39	S
HAFE0080	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/07/86	25	33	S
HAFE0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/21/81-04/21/93	11	7	
HAFE0010	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/85-04/15/86	0	2	
HAFE0013	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/25/81-08/25/81	0	1	
HAFE0016	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/19/85-04/14/86	0	2	
HAFE0025	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/69-05/19/69	0	1	
HAFE0033	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	22	130	T
HAFE0046	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/04/90-06/16/94	3	7	
HAFE0057	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/15/59-04/15/59	0	1	
HAFE0061	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/03/88	13	2	
HAFE0062	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	13	2	
HAFE0064	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/93-09/08/93	0	1	
HAFE0065	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/19/85-09/07/93	7	3	
HAFE0072	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	34	129	T,S
HAFE0073	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	13	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0077	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-09/25/74	0	1	
HAFE0080	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/13/93	32	102	S
HAFE0084	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/02/88	13	2	
HAFE0087	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	13	2	
HAFE0090	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/70-10/15/70	0	1	
HAFE0091	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/88-07/27/88	0	1	
HAFE0093	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/02/88	13	2	
HAFE0094	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/08/70-05/08/70	0	1	
HAFE0098	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/88-06/21/89	0	2	
HAFE0101	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/02/88	13	2	
HAFE0103	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/84-07/22/85	0	3	
HAFE0104	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/93-09/08/93	0	1	
HAFE0105	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0107	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/16/93-07/07/94	0	2	
HAFE0108	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/88-06/21/89	0	3	
HAFE0109	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/03/57-05/03/57	0	1	
HAFE0111	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0112	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/17/93-07/07/94	0	2	
HAFE0114	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0115	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0116	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	13	2	
HAFE0117	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/33-05/16/33	0	1	
HAFE0119	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/04/88	13	2	
HAFE0120	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	13	2	
HAFE0060	No	00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/93-05/16/95	2	9	
HAFE0105	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0107	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/16/93-07/07/94	0	2	
HAFE0111	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0112	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/17/93-07/07/94	0	2	
HAFE0114	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0115	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	0	3	
HAFE0105	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0105	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/21/81-04/21/93	11	7	
HAFE0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/85-04/15/86	0	2	
HAFE0013	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/25/81-08/25/81	0	1	
HAFE0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/19/85-04/14/86	0	2	
HAFE0025	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/69-05/19/69	0	1	
HAFE0033	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	22	130	T
HAFE0046	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/04/90-06/16/94	3	7	
HAFE0057	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/15/59-04/15/59	0	1	
HAFE0061	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/03/88	13	2	
HAFE0062	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	13	2	
HAFE0064	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/93-09/08/93	0	1	
HAFE0065	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/19/85-09/07/93	7	3	
HAFE0072	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	34	129	T,S
HAFE0073	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	13	2	
HAFE0077	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-09/25/74	0	1	
HAFE0080	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/13/93	32	102	S
HAFE0084	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/02/88	13	2	
HAFE0087	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	13	2	
HAFE0090	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/70-10/15/70	0	1	
HAFE0091	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/88-07/27/88	0	1	
HAFE0093	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/02/88	13	2	
HAFE0094	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/08/70-05/08/70	0	1	
HAFE0098	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/88-06/21/89	0	2	
HAFE0101	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/02/88	13	2	
HAFE0103	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/84-07/22/85	0	3	
HAFE0104	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/93-09/08/93	0	1	
HAFE0105	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0107	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/16/93-07/07/94	0	2	
HAFE0108	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/88-06/21/89	0	3	
HAFE0109	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/03/57-05/03/57	0	1	
HAFE0111	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0112	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/17/93-07/07/94	0	2	
HAFE0114	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0116	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	13	2	
HAFE0117	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/16/33-05/16/33	0	1	
HAFE0119	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/04/88	13	2	
HAFE0120	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	13	2	
HAFE0026	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/02/93-02/02/93	0	1	
HAFE0060	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/93-05/16/95	2	9	
HAFE0105	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0107	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/16/93-07/07/94	0	2	
HAFE0111	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0112	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/17/93-07/07/94	0	2	
HAFE0114	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0115	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	0	3	
HAFE0052	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	13	52	
HAFE0060	No	00929	SODIUM, TOTAL (MG/L AS NA)	03/09/93-05/16/95	2	9	
HAFE0100	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	13	52	
HAFE0105	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0107	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/16/93-07/07/94	0	2	
HAFE0111	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0112	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/17/93-07/07/94	0	2	
HAFE0114	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0115	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/81-04/21/93	11	7	
HAFE0010	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/85-04/15/86	0	2	
HAFE0013	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/25/81-08/25/81	0	1	
HAFE0016	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/19/85-04/14/86	0	2	
HAFE0025	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/19/69-05/19/69	0	1	
HAFE0033	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	22	128	T
HAFE0044	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/59-05/20/59	0	1	
HAFE0046	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/04/90-06/16/94	3	7	
HAFE0047	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/59-05/20/59	0	1	
HAFE0052	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/17/67-12/08/70	3	31	
HAFE0056	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/59-05/20/59	0	1	
HAFE0057	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/15/59-04/15/59	0	1	
HAFE0058	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/59-04/23/59	0	1	
HAFE0064	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/08/93-09/08/93	0	1	
HAFE0065	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/19/85-09/07/93	7	3	
HAFE0072	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	34	128	T,S
HAFE0080	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/13/93	32	101	S
HAFE0090	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/70-10/15/70	0	1	
HAFE0091	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/88-07/27/88	0	1	
HAFE0094	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/08/70-05/08/70	0	1	
HAFE0098	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/29/88-06/21/89	0	2	
HAFE0100	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/17/67-12/08/70	3	31	
HAFE0103	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/84-07/22/85	0	3	
HAFE0104	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/08/93-09/08/93	0	1	
HAFE0105	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0107	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/16/93-07/07/94	0	2	
HAFE0108	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/29/88-06/21/89	0	3	
HAFE0109	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/03/57-05/03/57	0	1	
HAFE0111	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0112	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/17/93-07/07/94	0	2	
HAFE0114	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0115	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	0	3	
HAFE0001	No	00931	SODIUM ADSORPTION RATIO	08/21/81-08/21/81	0	1	
HAFE0013	No	00931	SODIUM ADSORPTION RATIO	08/25/81-08/25/81	0	1	
HAFE0025	No	00931	SODIUM ADSORPTION RATIO	05/19/69-05/19/69	0	1	
HAFE0033	No	00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	19	126	
HAFE0044	No	00931	SODIUM ADSORPTION RATIO	05/20/59-05/20/59	0	1	
HAFE0047	No	00931	SODIUM ADSORPTION RATIO	05/20/59-05/20/59	0	1	
HAFE0056	No	00931	SODIUM ADSORPTION RATIO	05/20/59-05/20/59	0	1	
HAFE0057	No	00931	SODIUM ADSORPTION RATIO	04/15/59-04/15/59	0	1	
HAFE0058	No	00931	SODIUM ADSORPTION RATIO	04/23/59-04/23/59	0	1	
HAFE0072	No	00931	SODIUM ADSORPTION RATIO	09/28/60-01/06/86	25	45	S
HAFE0080	No	00931	SODIUM ADSORPTION RATIO	09/28/60-01/07/86	25	44	S
HAFE0001	No	00932	SODIUM, PERCENT	08/21/81-08/21/81	0	1	
HAFE0013	No	00932	SODIUM, PERCENT	08/25/81-08/25/81	0	1	
HAFE0025	No	00932	SODIUM, PERCENT	05/19/69-05/19/69	0	1	
HAFE0033	No	00932	SODIUM, PERCENT	08/09/63-03/16/83	19	125	
HAFE0044	No	00932	SODIUM, PERCENT	05/20/59-05/20/59	0	1	
HAFE0047	No	00932	SODIUM, PERCENT	05/20/59-05/20/59	0	1	
HAFE0056	No	00932	SODIUM, PERCENT	05/20/59-05/20/59	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0057	No	00932	SODIUM, PERCENT	04/15/59-04/15/59	0	1	
HAFE0058	No	00932	SODIUM, PERCENT	04/23/59-04/23/59	0	1	
HAFE0072	No	00932	SODIUM, PERCENT	09/28/60-01/06/86	25	44	S
HAFE0080	No	00932	SODIUM, PERCENT	09/28/60-01/07/86	25	44	S
HAFE0033	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/09/65-08/09/65	0	1	
HAFE0072	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/04/79-03/20/80	0	11	
HAFE0080	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/09/65-03/20/80	14	12	
HAFE0117	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/16/33-05/16/33	0	1	
HAFE0105	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/21/81-04/21/93	11	7	
HAFE0010	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/85-04/15/86	0	2	
HAFE0013	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/25/81-08/25/81	0	1	
HAFE0016	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/19/85-04/14/86	0	2	
HAFE0025	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/19/69-05/19/69	0	1	
HAFE0033	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	22	127	T
HAFE0044	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/59-05/20/59	0	1	
HAFE0046	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/04/90-06/16/94	3	7	
HAFE0047	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/59-05/20/59	0	1	
HAFE0052	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/17/67-12/08/70	3	31	
HAFE0056	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/59-05/20/59	0	1	
HAFE0057	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/15/59-04/15/59	0	1	
HAFE0058	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/59-04/23/59	0	1	
HAFE0065	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/19/85-09/07/93	7	3	
HAFE0072	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	34	127	T,S
HAFE0080	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/13/93	32	101	S
HAFE0090	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/70-10/15/70	0	1	
HAFE0091	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/88-07/27/88	0	1	
HAFE0094	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/08/70-05/08/70	0	1	
HAFE0098	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/29/88-06/21/89	0	2	
HAFE0100	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/17/67-12/08/70	3	31	
HAFE0105	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0107	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/16/93-07/07/94	0	2	
HAFE0108	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/29/88-06/21/89	0	3	
HAFE0109	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/03/57-05/03/57	0	1	
HAFE0111	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0112	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/17/93-07/07/94	0	2	
HAFE0114	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0115	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0023	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/15/88-08/15/88	0	1	
HAFE0052	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	13	48	
HAFE0060	No	00937	POTASSIUM, TOTAL MG/L AS K)	03/09/93-05/16/95	2	9	
HAFE0100	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	13	48	
HAFE0105	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0107	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/16/93-07/07/94	0	2	
HAFE0111	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0112	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/17/93-07/07/94	0	2	
HAFE0114	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0115	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	0	3	
HAFE0105	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/21/81-04/21/93	11	7	
HAFE0007	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/31/75-07/31/75	0	1	
HAFE0010	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/85-04/15/86	0	2	
HAFE0013	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/25/81-08/25/81	0	1	
HAFE0016	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/19/85-04/14/86	0	2	
HAFE0022	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/75-06/19/75	0	1	
HAFE0023	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/10/75-02/10/75	0	1	
HAFE0024	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/85-07/07/88	2	29	
HAFE0025	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/19/69-05/19/69	0	1	
HAFE0026	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/25/90-05/16/96	5	20	
HAFE0029	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/75-06/19/75	0	1	
HAFE0033	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	22	131	T
HAFE0035	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/75-06/19/75	0	1	
HAFE0038	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/25/85-07/08/88	2	29	
HAFE0039	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/23/85-07/07/88	2	29	
HAFE0040	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/85-07/08/88	2	29	
HAFE0041	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/85-07/08/88	2	29	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0042	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/23/85-07/17/88	2	29	
HAFE0044	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/59-05/20/59	0	1	
HAFE0045	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/30/85-07/08/88	2	27	
HAFE0046	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/90-06/16/94	3	7	
HAFE0047	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/59-05/20/59	0	1	
HAFE0052	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	38	198	T,A,S
HAFE0055	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/03/85-07/07/88	2	28	
HAFE0056	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/59-05/20/59	0	1	
HAFE0057	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/15/59-04/15/59	0	1	
HAFE0058	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/23/59-04/23/59	0	1	
HAFE0060	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/09/93-05/16/95	2	9	
HAFE0061	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/03/88	13	2	
HAFE0062	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	13	2	
HAFE0064	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/19/85-09/07/93	7	3	
HAFE0066	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0067	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0069	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-12/09/63	17	38	
HAFE0070	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0072	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	34	148	T,S
HAFE0073	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	13	2	
HAFE0076	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/54-09/03/88	34	15	
HAFE0077	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-09/25/74	0	1	
HAFE0080	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/13/93	32	102	S
HAFE0084	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/02/88	13	2	
HAFE0087	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	13	2	
HAFE0089	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0090	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/70-10/15/70	0	1	
HAFE0091	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/27/88-07/27/88	0	1	
HAFE0092	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/87-09/07/88	0	12	
HAFE0093	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/02/88	13	2	
HAFE0094	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/08/70-05/08/70	0	1	
HAFE0095	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/54-09/07/88	34	13	
HAFE0097	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/49-08/04/54	4	4	
HAFE0098	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/29/88-06/21/89	0	2	
HAFE0099	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0100	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	38	171	T,S
HAFE0101	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/02/88	13	2	
HAFE0103	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/84-07/22/85	0	3	
HAFE0104	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/93-09/08/93	0	1	
HAFE0105	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	0	3	
HAFE0106	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0107	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/16/93-07/07/94	0	2	
HAFE0108	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/29/88-06/21/89	0	3	
HAFE0109	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/26/45-05/03/57	12	2	
HAFE0111	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	0	3	
HAFE0112	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/17/93-07/07/94	0	2	
HAFE0114	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	0	3	
HAFE0115	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	0	3	
HAFE0116	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	13	2	
HAFE0117	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/33-05/16/33	0	1	
HAFE0118	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	0	12	
HAFE0119	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/04/88	13	2	
HAFE0120	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	13	2	
HAFE0001	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/21/81-04/21/93	11	7	
HAFE0010	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/85-04/15/86	0	2	
HAFE0013	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/25/81-08/25/81	0	1	
HAFE0016	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/19/85-04/14/86	0	2	
HAFE0019	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/17/73-08/17/73	0	1	
HAFE0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/19/69-05/19/69	0	1	
HAFE0026	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/25/90-05/16/96	5	20	
HAFE0027	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/72-05/24/72	0	1	
HAFE0033	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	22	131	T
HAFE0046	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/90-06/16/94	3	7	
HAFE0048	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	27	279	T,A,S
HAFE0057	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/15/59-04/15/59	0	1	
HAFE0060	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/09/93-05/16/95	2	9	
HAFE0064	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/93-09/08/93	0	1	
HAFE0065	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/19/85-09/07/93	7	3	
HAFE0066	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0067	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0069	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/07/62-12/09/63	1	23	
HAFE0070	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0072	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	34	128	T,S
HAFE0076	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0080	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/13/93	32	102	S
HAFE0089	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0091	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/88-07/27/88	0	1	
HAFE0092	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/87-08/03/88	0	11	
HAFE0094	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/08/70-05/08/70	0	1	
HAFE0095	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0098	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/29/88-06/21/89	0	2	
HAFE0099	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0100	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	17	167	A
HAFE0102	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/72-05/24/72	0	1	
HAFE0103	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/84-07/22/85	0	3	
HAFE0104	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/93-09/08/93	0	1	
HAFE0105	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	0	3	
HAFE0106	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0107	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/16/93-07/07/94	0	2	
HAFE0108	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/29/88-06/21/89	0	3	
HAFE0109	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/26/45-05/03/57	12	2	
HAFE0111	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	0	3	
HAFE0112	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/17/93-07/07/94	0	2	
HAFE0114	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	0	3	
HAFE0115	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	0	3	
HAFE0117	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/33-05/16/33	0	1	
HAFE0118	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	0	11	
HAFE0001	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/21/81-04/21/93	11	7	
HAFE0010	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/85-04/15/86	0	2	
HAFE0013	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/25/81-08/25/81	0	1	
HAFE0016	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/19/85-04/14/86	0	2	
HAFE0025	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/19/69-05/19/69	0	1	
HAFE0033	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	22	130	T
HAFE0046	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/04/90-06/16/94	3	7	
HAFE0057	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/15/59-04/15/59	0	1	
HAFE0060	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/09/93-05/16/95	2	9	
HAFE0064	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/93-09/08/93	0	1	
HAFE0065	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/19/85-09/07/93	7	3	
HAFE0072	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	34	128	T,S
HAFE0080	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/13/93	32	101	S
HAFE0090	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/15/70-10/15/70	0	1	
HAFE0091	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/27/88-07/27/88	0	1	
HAFE0094	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/08/70-05/08/70	0	1	
HAFE0098	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/88-06/21/89	0	2	
HAFE0104	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/93-09/08/93	0	1	
HAFE0108	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/88-06/21/89	0	3	
HAFE0109	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/03/57-05/03/57	0	1	
HAFE0026	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/25/90-02/02/93	2	8	
HAFE0052	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	16	157	A
HAFE0100	No	00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	16	150	
HAFE0001	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/21/81-04/21/93	11	7	
HAFE0010	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/85-04/15/86	0	2	
HAFE0013	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/25/81-08/25/81	0	1	
HAFE0016	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/19/85-04/14/86	0	2	
HAFE0025	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/19/69-05/19/69	0	1	
HAFE0026	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/25/90-02/02/93	2	8	
HAFE0033	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	22	129	T
HAFE0046	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/04/90-06/16/94	3	7	
HAFE0057	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/15/59-04/15/59	0	1	
HAFE0064	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/93-09/08/93	0	1	
HAFE0065	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/19/85-09/07/93	7	3	
HAFE0072	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	34	128	T,S
HAFE0080	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/13/93	32	101	S
HAFE0091	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/88-07/27/88	0	1	
HAFE0094	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/08/70-05/08/70	0	1	
HAFE0098	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/88-06/21/89	0	2	
HAFE0104	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/93-09/08/93	0	1	
HAFE0108	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/88-06/21/89	0	3	
HAFE0109	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/03/57-05/03/57	0	1	
HAFE0117	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/33-05/16/33	0	1	
HAFE0105	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0107	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	12/16/93-07/07/94	0	2	
HAFE0111	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	0	3	
HAFE0112	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	12/17/93-07/07/94	0	2	
HAFE0114	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	0	3	
HAFE0115	No	00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	0	3	
HAFE0001	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/27/89-04/27/89	0	1	
HAFE0046	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/17/91-06/17/91	0	1	
HAFE0072	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	12	49	
HAFE0080	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	12	50	
HAFE0105	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0107	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/16/93-07/07/94	0	2	
HAFE0111	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0112	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/17/93-07/07/94	0	2	
HAFE0114	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0115	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0072	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/29/79-09/20/82	3	13	
HAFE0080	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/29/79-09/20/82	3	14	
HAFE0004	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/17/73-11/28/78	5	3	
HAFE0007	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/04/87-06/04/87	0	1	
HAFE0019	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/21/71-04/26/79	8	11	
HAFE0023	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/15/88-08/15/88	0	1	
HAFE0026	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/02/93-08/03/94	1	2	
HAFE0033	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-08/31/76	0	1	
HAFE0052	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	13	37	
HAFE0060	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/09/93-05/16/95	2	9	
HAFE0066	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0067	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0070	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0072	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-09/20/82	6	14	
HAFE0076	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-08/03/88	0	1	
HAFE0080	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/29/79-09/20/82	3	14	
HAFE0089	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0092	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0095	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/07/88-09/07/88	0	1	
HAFE0099	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0100	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	13	37	
HAFE0105	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0106	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0107	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/16/93-07/07/94	0	2	
HAFE0111	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0112	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/17/93-07/07/94	0	2	
HAFE0114	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0115	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	0	3	
HAFE0118	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	0	2	
HAFE0026	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0078	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/01/80-10/01/82	2	8	
HAFE0001	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/27/89-04/27/89	0	1	
HAFE0046	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	06/17/91-06/17/91	0	1	
HAFE0072	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	14	58	
HAFE0080	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	14	58	
HAFE0072	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	03/29/79-09/20/82	3	10	
HAFE0080	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	03/29/79-09/20/82	3	11	
HAFE0052	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	03/06/79-09/18/84	5	11	
HAFE0060	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/09/93-05/16/95	2	9	
HAFE0066	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0067	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0070	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0072	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/29/79-09/20/82	3	13	
HAFE0076	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-08/03/88	0	1	
HAFE0080	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/29/79-09/20/82	3	13	
HAFE0089	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0092	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0095	No	01007	BARIUM, TOTAL (UG/L AS BA)	09/07/88-09/07/88	0	1	
HAFE0099	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0100	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/06/79-09/18/84	5	12	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0106	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0118	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	0	2	
HAFE0105	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/27/89-04/27/89	0	1	
HAFE0046	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	06/17/91-06/17/91	0	1	
HAFE0072	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	8	36	
HAFE0080	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	8	36	
HAFE0026	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/02/93-02/02/93	0	1	
HAFE0060	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/01/94-05/16/95	0	3	
HAFE0026	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0105	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01022	BORON, TOTAL (UG/L AS B)	04/27/89-04/17/90	0	2	
HAFE0046	No	01022	BORON, TOTAL (UG/L AS B)	10/04/90-10/04/90	0	1	
HAFE0105	No	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/27/89-04/27/89	0	1	
HAFE0033	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/08/69-05/30/73	3	7	
HAFE0046	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/17/91-06/17/91	0	1	
HAFE0052	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/21/68-12/08/70	2	20	
HAFE0072	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	12	49	
HAFE0080	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	12	50	
HAFE0100	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/21/68-12/08/70	2	20	
HAFE0105	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0107	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	12/16/93-07/07/94	0	2	
HAFE0111	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0112	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	12/17/93-07/07/94	0	2	
HAFE0114	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0115	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0072	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/29/79-09/20/82	3	11	
HAFE0080	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/29/79-07/20/81	2	9	
HAFE0001	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/21/81-08/21/81	0	1	
HAFE0004	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/17/73-11/28/78	5	4	
HAFE0007	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/04/87-06/04/87	0	1	
HAFE0013	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/25/81-08/25/81	0	1	
HAFE0019	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/21/71-04/26/79	8	12	
HAFE0023	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/15/88-08/15/88	0	1	
HAFE0026	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/93-08/03/94	1	2	
HAFE0027	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/72-05/24/72	0	1	
HAFE0033	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/12/73-08/31/76	2	3	
HAFE0048	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	13	126	
HAFE0060	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/09/93-05/16/95	2	9	
HAFE0066	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0067	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0070	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0072	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/31/76-09/20/82	6	14	
HAFE0076	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-08/03/88	0	1	
HAFE0080	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/79-09/20/82	3	14	
HAFE0089	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0092	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0095	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/07/88-09/07/88	0	1	
HAFE0099	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0100	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	13	126	
HAFE0102	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/72-05/24/72	0	1	
HAFE0105	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0106	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0107	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/16/93-07/07/94	0	2	
HAFE0111	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0112	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/17/93-07/07/94	0	2	
HAFE0114	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0115	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	0	3	
HAFE0118	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	0	2	
HAFE0026	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/92-08/28/95	3	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0033	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0026	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/27/89-04/27/89	0	1	
HAFE0033	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/19/72-03/06/73	0	2	
HAFE0046	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/17/91-06/17/91	0	1	
HAFE0072	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	12	48	
HAFE0080	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	12	49	
HAFE0105	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0107	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/16/93-07/07/94	0	2	
HAFE0111	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0112	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/17/93-07/07/94	0	2	
HAFE0114	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0115	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0072	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	03/29/79-05/10/82	3	11	
HAFE0080	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	06/12/79-05/10/82	2	10	
HAFE0033	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	12/05/72-12/05/72	0	1	
HAFE0052	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	16	153	
HAFE0100	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	16	146	
HAFE0001	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/21/81-08/21/81	0	1	
HAFE0004	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/15/73-11/28/78	5	7	
HAFE0007	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/04/87-06/04/87	0	1	
HAFE0013	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/25/81-08/25/81	0	1	
HAFE0019	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/06/70-04/26/79	9	19	
HAFE0023	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/15/88-08/15/88	0	1	
HAFE0026	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/02/93-08/03/94	1	2	
HAFE0033	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/08/69-08/31/76	6	7	
HAFE0050	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	10	54	
HAFE0060	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/09/93-05/16/95	2	9	
HAFE0066	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0067	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0070	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0072	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/31/76-09/20/82	6	14	
HAFE0076	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-08/03/88	0	1	
HAFE0080	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/12/79-09/20/82	3	13	
HAFE0089	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0092	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0095	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/07/88-09/07/88	0	1	
HAFE0099	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0100	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	10	55	
HAFE0105	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0106	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0107	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/16/93-07/07/94	0	2	
HAFE0111	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0112	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/17/93-07/07/94	0	2	
HAFE0114	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0115	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	0	3	
HAFE0118	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	0	2	
HAFE0001	No	01035	COBALT, DISSOLVED (UG/L AS CO)	04/27/89-04/27/89	0	1	
HAFE0046	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/17/91-06/17/91	0	1	
HAFE0072	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	14	58	
HAFE0080	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	14	59	
HAFE0072	No	01036	COBALT, SUSPENDED (UG/L AS CO)	03/29/79-01/19/81	1	9	
HAFE0080	No	01036	COBALT, SUSPENDED (UG/L AS CO)	03/29/79-07/20/81	2	10	
HAFE0033	No	01037	COBALT, TOTAL (UG/L AS CO)	08/31/76-08/31/76	0	1	
HAFE0072	No	01037	COBALT, TOTAL (UG/L AS CO)	08/31/76-09/20/82	6	14	
HAFE0080	No	01037	COBALT, TOTAL (UG/L AS CO)	03/29/79-09/20/82	3	14	
HAFE0033	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/31/76-08/31/76	0	1	
HAFE0072	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/31/76-08/31/76	0	1	
HAFE0105	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/08/93-10/08/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0114	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/27/89-04/27/89	0	1	
HAFE0033	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/69-05/30/73	3	7	
HAFE0046	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/17/91-06/17/91	0	1	
HAFE0052	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	12/08/70-12/08/70	0	1	
HAFE0072	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	12	49	
HAFE0080	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	12	50	
HAFE0100	No	01040	COPPER, DISSOLVED (UG/L AS CU)	12/08/70-12/08/70	0	1	
HAFE0105	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0107	No	01040	COPPER, DISSOLVED (UG/L AS CU)	12/16/93-07/07/94	0	2	
HAFE0111	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0112	No	01040	COPPER, DISSOLVED (UG/L AS CU)	12/17/93-07/07/94	0	2	
HAFE0114	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0115	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0072	No	01041	COPPER, SUSPENDED (UG/L AS CU)	03/29/79-09/20/82	3	13	
HAFE0080	No	01041	COPPER, SUSPENDED (UG/L AS CU)	03/29/79-09/20/82	3	14	
HAFE0001	No	01042	COPPER, TOTAL (UG/L AS CU)	08/21/81-08/21/81	0	1	
HAFE0004	No	01042	COPPER, TOTAL (UG/L AS CU)	05/15/73-11/28/78	5	7	
HAFE0007	No	01042	COPPER, TOTAL (UG/L AS CU)	06/04/87-06/04/87	0	1	
HAFE0013	No	01042	COPPER, TOTAL (UG/L AS CU)	08/25/81-08/25/81	0	1	
HAFE0019	No	01042	COPPER, TOTAL (UG/L AS CU)	04/06/70-04/26/79	9	19	
HAFE0023	No	01042	COPPER, TOTAL (UG/L AS CU)	08/15/88-08/15/88	0	1	
HAFE0026	No	01042	COPPER, TOTAL (UG/L AS CU)	02/02/93-08/03/94	1	2	
HAFE0027	No	01042	COPPER, TOTAL (UG/L AS CU)	05/24/72-05/24/72	0	1	
HAFE0033	No	01042	COPPER, TOTAL (UG/L AS CU)	09/12/73-08/31/76	2	3	
HAFE0048	No	01042	COPPER, TOTAL (UG/L AS CU)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	12	49	
HAFE0057	No	01042	COPPER, TOTAL (UG/L AS CU)	04/15/59-04/15/59	0	1	
HAFE0060	No	01042	COPPER, TOTAL (UG/L AS CU)	03/09/93-05/16/95	2	9	
HAFE0066	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0067	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0070	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0072	No	01042	COPPER, TOTAL (UG/L AS CU)	08/31/76-01/23/84	7	15	
HAFE0076	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-08/03/88	0	1	
HAFE0080	No	01042	COPPER, TOTAL (UG/L AS CU)	03/29/79-01/23/84	4	15	
HAFE0089	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0092	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0095	No	01042	COPPER, TOTAL (UG/L AS CU)	09/07/88-09/07/88	0	1	
HAFE0099	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0100	No	01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	12	49	
HAFE0102	No	01042	COPPER, TOTAL (UG/L AS CU)	05/24/72-05/24/72	0	1	
HAFE0105	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0106	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0107	No	01042	COPPER, TOTAL (UG/L AS CU)	12/16/93-07/07/94	0	2	
HAFE0111	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0112	No	01042	COPPER, TOTAL (UG/L AS CU)	12/17/93-07/07/94	0	2	
HAFE0114	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0115	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	0	3	
HAFE0118	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	0	2	
HAFE0026	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01044	IRON, SUSPENDED (UG/L AS FE)	08/21/81-08/21/81	0	1	
HAFE0010	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/25/85-09/25/85	0	1	
HAFE0016	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/19/85-09/19/85	0	1	
HAFE0033	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/19/78-09/25/85	7	10	
HAFE0065	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/19/85-09/19/85	0	1	
HAFE0072	No	01044	IRON, SUSPENDED (UG/L AS FE)	03/29/79-09/20/82	3	12	
HAFE0080	No	01044	IRON, SUSPENDED (UG/L AS FE)	03/29/79-09/20/82	3	14	
HAFE0103	No	01044	IRON, SUSPENDED (UG/L AS FE)	07/22/85-07/22/85	0	1	
HAFE0001	No	01045	IRON, TOTAL (UG/L AS FE)	08/21/81-04/21/93	11	6	
HAFE0004	No	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	1	
HAFE0007	No	01045	IRON, TOTAL (UG/L AS FE)	06/04/87-06/04/87	0	1	
HAFE0010	No	01045	IRON, TOTAL (UG/L AS FE)	09/25/85-04/15/86	0	2	
HAFE0013	No	01045	IRON, TOTAL (UG/L AS FE)	08/25/81-08/25/81	0	1	
HAFE0016	No	01045	IRON, TOTAL (UG/L AS FE)	09/19/85-04/14/86	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0019	No	01045	IRON, TOTAL (UG/L AS FE)	11/17/70-04/26/79	8	4	
HAFE0023	No	01045	IRON, TOTAL (UG/L AS FE)	08/15/88-08/15/88	0	1	
HAFE0026	No	01045	IRON, TOTAL (UG/L AS FE)	02/02/93-08/03/94	1	2	
HAFE0027	No	01045	IRON, TOTAL (UG/L AS FE)	05/24/72-05/24/72	0	1	
HAFE0033	No	01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	22	105	
HAFE0046	No	01045	IRON, TOTAL (UG/L AS FE)	10/04/90-06/16/94	3	7	
HAFE0048	No	01045	IRON, TOTAL (UG/L AS FE)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01045	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	27	218	T,A,S
HAFE0057	No	01045	IRON, TOTAL (UG/L AS FE)	04/15/59-04/15/59	0	1	
HAFE0060	No	01045	IRON, TOTAL (UG/L AS FE)	03/09/93-05/16/95	2	9	
HAFE0065	No	01045	IRON, TOTAL (UG/L AS FE)	09/19/85-04/02/86	0	2	
HAFE0066	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0067	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0070	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0072	No	01045	IRON, TOTAL (UG/L AS FE)	06/19/61-09/20/82	21	15	
HAFE0076	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-08/03/88	0	11	
HAFE0080	No	01045	IRON, TOTAL (UG/L AS FE)	09/28/60-09/20/82	21	17	
HAFE0089	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0090	No	01045	IRON, TOTAL (UG/L AS FE)	10/15/70-10/15/70	0	1	
HAFE0092	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/87-09/07/88	0	12	
HAFE0094	No	01045	IRON, TOTAL (UG/L AS FE)	05/08/70-05/08/70	0	1	
HAFE0095	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	11	
HAFE0099	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0100	No	01045	IRON, TOTAL (UG/L AS FE)	07/17/67-09/18/84	17	97	
HAFE0102	No	01045	IRON, TOTAL (UG/L AS FE)	05/24/72-05/24/72	0	1	
HAFE0103	No	01045	IRON, TOTAL (UG/L AS FE)	10/10/84-07/22/85	0	3	
HAFE0105	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0106	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0107	No	01045	IRON, TOTAL (UG/L AS FE)	12/16/93-07/07/94	0	2	
HAFE0109	No	01045	IRON, TOTAL (UG/L AS FE)	01/26/45-05/03/57	12	2	
HAFE0111	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0112	No	01045	IRON, TOTAL (UG/L AS FE)	12/17/93-07/07/94	0	2	
HAFE0114	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0115	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0118	No	01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	0	12	
HAFE0001	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/21/81-04/21/93	11	7	
HAFE0010	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/85-04/15/86	0	2	
HAFE0013	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/25/81-08/25/81	0	1	
HAFE0016	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/19/85-04/14/86	0	2	
HAFE0025	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/19/69-05/19/69	0	1	
HAFE0033	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/07/67-04/02/86	18	28	
HAFE0046	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/04/90-06/16/94	3	7	
HAFE0052	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/07/69-03/02/70	0	4	
HAFE0064	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/08/93-09/08/93	0	1	
HAFE0065	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/19/85-09/07/93	7	3	
HAFE0072	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/28/60-03/16/95	34	109	S
HAFE0080	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/13/93	32	62	S
HAFE0091	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/27/88-07/27/88	0	1	
HAFE0098	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/29/88-06/21/89	0	2	
HAFE0100	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/07/69-03/02/70	0	4	
HAFE0103	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/10/84-07/22/85	0	3	
HAFE0104	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/08/93-09/08/93	0	1	
HAFE0105	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0107	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/16/93-07/07/94	0	2	
HAFE0108	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/29/88-06/21/89	0	3	
HAFE0111	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0112	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/17/93-07/07/94	0	2	
HAFE0114	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0115	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	0	3	
HAFE0001	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/27/89-04/16/91	1	2	
HAFE0033	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/08/69-05/30/73	3	7	
HAFE0046	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/17/91-06/17/91	0	1	
HAFE0052	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	10/10/67-12/08/70	3	28	
HAFE0072	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	12	49	
HAFE0080	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	12	50	
HAFE0100	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/10/67-12/08/70	3	28	
HAFE0105	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0107	No	01049	LEAD, DISSOLVED (UG/L AS PB)	12/16/93-07/07/94	0	2	
HAFE0111	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0112	No	01049	LEAD, DISSOLVED (UG/L AS PB)	12/17/93-07/07/94	0	2	
HAFE0114	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0072	No	01050	LEAD, SUSPENDED (UG/L AS PB)	03/29/79-09/20/82	3	13	
HAFE0080	No	01050	LEAD, SUSPENDED (UG/L AS PB)	03/29/79-09/20/82	3	12	
HAFE0001	No	01051	LEAD, TOTAL (UG/L AS PB)	08/21/81-04/16/91	9	2	
HAFE0004	No	01051	LEAD, TOTAL (UG/L AS PB)	08/17/73-11/28/78	5	6	
HAFE0007	No	01051	LEAD, TOTAL (UG/L AS PB)	06/04/87-06/04/87	0	1	
HAFE0013	No	01051	LEAD, TOTAL (UG/L AS PB)	08/25/81-08/25/81	0	1	
HAFE0019	No	01051	LEAD, TOTAL (UG/L AS PB)	11/17/70-04/26/79	8	16	
HAFE0023	No	01051	LEAD, TOTAL (UG/L AS PB)	08/15/88-08/15/88	0	1	
HAFE0026	No	01051	LEAD, TOTAL (UG/L AS PB)	02/02/93-08/03/94	1	2	
HAFE0027	No	01051	LEAD, TOTAL (UG/L AS PB)	05/24/72-05/24/72	0	1	
HAFE0033	No	01051	LEAD, TOTAL (UG/L AS PB)	09/12/73-08/31/76	2	3	
HAFE0048	No	01051	LEAD, TOTAL (UG/L AS PB)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	13	132	
HAFE0060	No	01051	LEAD, TOTAL (UG/L AS PB)	03/09/93-05/16/95	2	9	
HAFE0066	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0067	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0070	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0072	No	01051	LEAD, TOTAL (UG/L AS PB)	08/31/76-09/20/82	6	14	
HAFE0076	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-08/03/88	0	1	
HAFE0080	No	01051	LEAD, TOTAL (UG/L AS PB)	03/29/79-09/20/82	3	14	
HAFE0089	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0092	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0095	No	01051	LEAD, TOTAL (UG/L AS PB)	09/07/88-09/07/88	0	1	
HAFE0099	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0100	No	01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	13	132	
HAFE0102	No	01051	LEAD, TOTAL (UG/L AS PB)	05/24/72-05/24/72	0	1	
HAFE0105	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0106	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0107	No	01051	LEAD, TOTAL (UG/L AS PB)	12/16/93-07/07/94	0	2	
HAFE0111	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0112	No	01051	LEAD, TOTAL (UG/L AS PB)	12/17/93-07/07/94	0	2	
HAFE0114	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0115	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	0	3	
HAFE0118	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	0	2	
HAFE0026	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0026	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/28/95-08/28/95	0	1	
HAFE0033	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0010	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/25/85-09/25/85	0	1	
HAFE0016	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/19/85-09/19/85	0	1	
HAFE0033	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/15/76-09/25/85	9	16	
HAFE0065	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/19/85-09/19/85	0	1	
HAFE0072	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	03/29/79-09/20/82	3	13	
HAFE0080	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	03/29/79-09/20/82	3	14	
HAFE0103	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/22/85-07/22/85	0	1	
HAFE0001	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/21/81-04/21/93	11	6	
HAFE0004	No	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	1	
HAFE0010	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/25/85-04/15/86	0	2	
HAFE0013	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/25/81-08/25/81	0	1	
HAFE0016	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/19/85-04/14/86	0	2	
HAFE0019	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/06/70-04/26/79	9	4	
HAFE0026	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/02/93-08/03/94	1	2	
HAFE0027	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/24/72-05/24/72	0	1	
HAFE0033	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	22	113	
HAFE0046	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/90-06/16/94	3	7	
HAFE0048	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	27	234	T,A,S
HAFE0060	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/09/93-05/16/95	2	9	
HAFE0065	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/19/85-04/02/86	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0066	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0067	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0070	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0072	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/60-09/20/82	21	17	
HAFE0076	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-08/03/88	0	11	
HAFE0080	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/60-09/20/82	21	19	
HAFE0089	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0090	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/15/70-10/15/70	0	1	
HAFE0092	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/87-09/07/88	0	12	
HAFE0094	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/08/70-05/08/70	0	1	
HAFE0095	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	11	
HAFE0099	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0100	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	16	113	
HAFE0102	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/24/72-05/24/72	0	1	
HAFE0103	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/10/84-07/22/85	0	3	
HAFE0105	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0106	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0107	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/16/93-07/07/94	0	2	
HAFE0111	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0112	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/17/93-07/07/94	0	2	
HAFE0114	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0115	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0118	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	0	12	
HAFE0001	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/81-04/21/93	11	7	
HAFE0010	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/25/85-04/15/86	0	2	
HAFE0013	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/25/81-08/25/81	0	1	
HAFE0016	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/85-04/14/86	0	2	
HAFE0033	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/69-04/02/86	16	27	
HAFE0046	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/90-06/16/94	3	7	
HAFE0064	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/08/93-09/08/93	0	1	
HAFE0065	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/85-09/07/93	7	3	
HAFE0072	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-03/16/95	15	87	
HAFE0080	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-09/13/93	14	59	
HAFE0091	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/27/88-07/27/88	0	1	
HAFE0098	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/29/88-06/21/89	0	2	
HAFE0103	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/10/84-07/22/85	0	3	
HAFE0104	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/08/93-09/08/93	0	1	
HAFE0105	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0107	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/16/93-07/07/94	0	2	
HAFE0108	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/29/88-06/21/89	0	3	
HAFE0111	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0112	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/17/93-07/07/94	0	2	
HAFE0114	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0115	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	0	3	
HAFE0026	No	01059	THALLIUM, TOTAL (UG/L AS TL)	02/02/93-02/02/93	0	1	
HAFE0001	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/27/89-04/27/89	0	1	
HAFE0046	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/17/91-06/17/91	0	1	
HAFE0072	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	10	44	
HAFE0080	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	10	44	
HAFE0105	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/27/89-04/27/89	0	1	
HAFE0004	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/73-11/28/78	5	6	
HAFE0019	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/10/73-04/26/79	6	10	
HAFE0046	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/17/91-06/17/91	0	1	
HAFE0072	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	13	55	
HAFE0080	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	13	56	
HAFE0105	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0107	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	12/16/93-07/07/94	0	2	
HAFE0111	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0112	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	12/17/93-07/07/94	0	2	
HAFE0114	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0115	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0072	No	01066	NICKEL, SUSPENDED (UG/L AS NI)	12/10/79-09/20/82	2	10	
HAFE0080	No	01066	NICKEL, SUSPENDED (UG/L AS NI)	12/10/79-09/20/82	2	11	
HAFE0001	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/21/81-08/21/81	0	1	
HAFE0007	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/04/87-06/04/87	0	1	
HAFE0013	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/25/81-08/25/81	0	1	
HAFE0026	No	01067	NICKEL, TOTAL (UG/L AS NI)	02/02/93-08/03/94	1	2	
HAFE0050	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/17/96-06/17/96	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0052	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	9	29	
HAFE0060	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/09/93-05/16/95	2	9	
HAFE0066	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0067	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0070	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0072	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/10/79-09/20/82	2	10	
HAFE0076	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-08/03/88	0	1	
HAFE0080	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/10/79-09/20/82	2	11	
HAFE0089	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0092	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0095	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/07/88-09/07/88	0	1	
HAFE0099	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0100	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	9	28	
HAFE0105	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0106	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0107	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/16/93-07/07/94	0	2	
HAFE0111	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0112	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/17/93-07/07/94	0	2	
HAFE0114	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0115	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	0	3	
HAFE0118	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	0	2	
HAFE0026	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0100	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	10/17/83-10/17/83	0	2	
HAFE0052	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/68-12/08/70	2	20	
HAFE0072	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	14	58	
HAFE0080	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	14	59	
HAFE0100	No	01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/68-12/08/70	2	20	
HAFE0072	No	01076	SILVER, SUSPENDED (UG/L AS AG)	03/29/79-01/19/81	1	9	
HAFE0080	No	01076	SILVER, SUSPENDED (UG/L AS AG)	03/29/79-07/20/81	2	10	
HAFE0001	No	01077	SILVER, TOTAL (UG/L AS AG)	08/21/81-08/21/81	0	1	
HAFE0013	No	01077	SILVER, TOTAL (UG/L AS AG)	08/25/81-08/25/81	0	1	
HAFE0033	No	01077	SILVER, TOTAL (UG/L AS AG)	08/31/76-08/31/76	0	1	
HAFE0052	Yes	01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	13	43	
HAFE0060	No	01077	SILVER, TOTAL (UG/L AS AG)	03/09/93-05/16/95	2	9	
HAFE0066	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0067	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0070	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0072	No	01077	SILVER, TOTAL (UG/L AS AG)	08/31/76-09/20/82	6	18	
HAFE0076	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-08/03/88	0	1	
HAFE0080	No	01077	SILVER, TOTAL (UG/L AS AG)	03/29/79-09/20/82	3	18	
HAFE0089	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0092	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0095	No	01077	SILVER, TOTAL (UG/L AS AG)	09/07/88-09/07/88	0	1	
HAFE0099	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0100	No	01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	13	42	
HAFE0106	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0118	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	0	2	
HAFE0026	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0105	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0072	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	10	45	
HAFE0080	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	10	45	
HAFE0105	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/27/89-04/27/89	0	1	
HAFE0046	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	06/17/91-06/17/91	0	1	
HAFE0072	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	10	45	
HAFE0080	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	10	45	
HAFE0105	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/07/93-10/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0001	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/27/89-04/27/89	0	1	
HAFE0033	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/69-05/30/73	3	7	
HAFE0046	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/17/91-06/17/91	0	1	
HAFE0052	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/21/68-12/08/70	2	3	
HAFE0072	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	12	49	
HAFE0080	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	12	50	
HAFE0100	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/21/68-12/08/70	2	3	
HAFE0105	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0107	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	12/16/93-07/07/94	0	2	
HAFE0111	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0112	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	12/17/93-07/07/94	0	2	
HAFE0114	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0115	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0072	No	01091	ZINC, SUSPENDED (UG/L ZN)	03/29/79-05/10/82	3	11	
HAFE0080	No	01091	ZINC, SUSPENDED (UG/L ZN)	03/29/79-05/10/82	3	10	
HAFE0001	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/21/81-04/17/90	8	3	
HAFE0004	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/15/73-11/28/78	5	7	
HAFE0007	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/04/87-06/04/87	0	1	
HAFE0013	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/25/81-08/25/81	0	1	
HAFE0019	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/06/70-04/26/79	9	19	
HAFE0023	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/15/88-08/15/88	0	1	
HAFE0026	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/02/93-08/03/94	1	2	
HAFE0027	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/24/72-05/24/72	0	1	
HAFE0033	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/12/73-08/31/76	2	3	
HAFE0046	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/17/91-06/17/91	0	1	
HAFE0048	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	12	57	
HAFE0057	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/59-04/15/59	0	1	
HAFE0060	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/09/93-05/16/95	2	9	
HAFE0066	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0067	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0070	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0072	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/31/76-09/20/82	6	14	
HAFE0076	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-08/03/88	0	1	
HAFE0080	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/29/79-09/20/82	3	14	
HAFE0089	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0092	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0095	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/07/88-09/07/88	0	1	
HAFE0099	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0100	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	12	57	
HAFE0102	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/24/72-05/24/72	0	1	
HAFE0105	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0106	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0107	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/16/93-07/07/94	0	2	
HAFE0111	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0112	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/17/93-07/07/94	0	2	
HAFE0114	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0115	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	0	3	
HAFE0118	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	0	2	
HAFE0026	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0052	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	03/06/79-03/26/84	5	10	
HAFE0060	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	03/09/93-05/16/95	2	9	
HAFE0100	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	03/06/79-03/06/84	5	11	
HAFE0026	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/28/95-08/28/95	0	1	
HAFE0105	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0105	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/21/81-04/17/90	8	2	
HAFE0013	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/25/81-08/25/81	0	1	
HAFE0033	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/12/73-08/31/76	2	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0046	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/90-10/04/90	0	1	
HAFE0050	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	25	153	T,S
HAFE0057	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/15/59-04/15/59	0	1	
HAFE0060	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/09/93-05/16/95	2	9	
HAFE0066	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0067	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0070	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0072	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/31/76-08/31/76	0	1	
HAFE0076	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-08/03/88	0	11	
HAFE0089	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0092	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/87-09/07/88	0	12	
HAFE0095	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	11	
HAFE0099	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0100	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-09/18/84	14	33	
HAFE0105	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0106	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0107	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/16/93-07/07/94	0	2	
HAFE0111	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0112	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/17/93-07/07/94	0	2	
HAFE0114	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0115	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0118	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	0	12	
HAFE0001	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/81-04/27/89	7	3	
HAFE0013	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/25/81-08/25/81	0	1	
HAFE0033	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/69-05/30/73	3	7	
HAFE0046	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	06/17/91-06/17/91	0	1	
HAFE0072	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	10	45	
HAFE0080	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	10	45	
HAFE0105	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0107	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12/16/93-07/07/94	0	2	
HAFE0111	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0112	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12/17/93-07/07/94	0	2	
HAFE0114	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0115	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	0	3	
HAFE0001	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/21/81-08/21/81	0	1	
HAFE0013	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/25/81-08/25/81	0	1	
HAFE0026	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/28/95-08/28/95	0	1	
HAFE0105	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/27/89-04/27/89	0	1	
HAFE0046	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/17/91-06/17/91	0	1	
HAFE0072	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	10	45	
HAFE0080	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	10	45	
HAFE0105	No	01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0001	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/27/89-04/27/89	0	1	
HAFE0046	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/17/91-06/17/91	0	1	
HAFE0072	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	14	58	
HAFE0080	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	14	59	
HAFE0072	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/29/79-01/19/81	1	9	
HAFE0080	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/29/79-07/20/81	2	10	
HAFE0026	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/02/93-08/03/94	1	2	
HAFE0033	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-08/31/76	0	1	
HAFE0052	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	9	22	
HAFE0060	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/09/93-05/16/95	2	9	
HAFE0066	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0067	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0070	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0072	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-09/20/82	6	14	
HAFE0076	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-08/03/88	0	1	
HAFE0080	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/79-09/20/82	3	14	
HAFE0089	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0092	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0095	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/07/88-09/07/88	0	1	
HAFE0099	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0100	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	9	26	
HAFE0106	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0118	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	0	2	
HAFE0026	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0105	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0105	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0026	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/28/95-08/28/95	0	1	
HAFE0033	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0105	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0111	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/08/93-10/08/93	0	1	
HAFE0114	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0115	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/07/93-10/07/93	0	1	
HAFE0050	Yes	01300	OIL-GREASE (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01300	OIL-GREASE (SEVERITY)	10/20/69-06/13/95	25	261	
HAFE0066	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01300	OIL-GREASE (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01300	OIL-GREASE (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01300	OIL-GREASE (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01300	OIL-GREASE (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01300	OIL-GREASE (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01305	DETERGENT SUDS (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01305	DETERGENT SUDS (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01305	DETERGENT SUDS (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01305	DETERGENT SUDS (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01305	DETERGENT SUDS (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01305	DETERGENT SUDS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01310	GAS BUBBLES (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01310	GAS BUBBLES (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01310	GAS BUBBLES (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01310	GAS BUBBLES (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01310	GAS BUBBLES (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01310	GAS BUBBLES (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01315	SLUDGE, FLOATING (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01315	SLUDGE, FLOATING (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01315	SLUDGE, FLOATING (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01315	SLUDGE, FLOATING (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01315	SLUDGE, FLOATING (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0118	No	01315	SLUDGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01320	GARBAGE, FLOATING (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01320	GARBAGE, FLOATING (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01320	GARBAGE, FLOATING (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01320	GARBAGE, FLOATING (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01320	GARBAGE, FLOATING (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01320	GARBAGE, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01325	ALGAE, FLOATING MATS (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01325	ALGAE, FLOATING MATS (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01330	ODOR, ATMOSPHERIC (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01340	FISH, DEAD (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01340	FISH, DEAD (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01340	FISH, DEAD (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01340	FISH, DEAD (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01340	FISH, DEAD (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01340	FISH, DEAD (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01340	FISH, DEAD (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0050	Yes	01345	DEBRIS, FLOATING (SEVERITY)	03/11/96-06/17/96	0	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0052	Yes	01345	DEBRIS, FLOATING (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01345	DEBRIS, FLOATING (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01345	DEBRIS, FLOATING (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01345	DEBRIS, FLOATING (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01345	DEBRIS, FLOATING (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0033	No	01350	TURBIDITY (SEVERITY)	08/31/76-08/31/76	0	1	
HAFE0050	Yes	01350	TURBIDITY (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01350	TURBIDITY (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01350	TURBIDITY (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01350	TURBIDITY (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01350	TURBIDITY (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01350	TURBIDITY (SEVERITY)	10/19/69-10/02/84	14	147	
HAFE0106	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01350	TURBIDITY (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0026	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	10/25/90-08/13/96	5	20	
HAFE0050	Yes	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/20/69-06/13/95	25	267	
HAFE0066	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0067	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0070	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0076	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-08/03/88	0	11	
HAFE0089	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0092	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/07/87-09/07/88	0	10	
HAFE0095	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0097	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	12/17/74-12/17/74	0	1	
HAFE0099	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0100	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/19/69-10/02/84	14	148	
HAFE0106	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0118	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	10/06/87-09/07/88	0	12	
HAFE0069	No	01360	SAMPLE LENGTH CM	10/11/89-10/28/93	4	12	
HAFE0100	No	01360	SAMPLE LENGTH CM	10/15/81-10/28/93	12	15	
HAFE0069	No	01361	SAMPLE LENGTH-MAXIMUM CM	10/11/89-10/28/93	4	12	
HAFE0100	No	01361	SAMPLE LENGTH-MAXIMUM CM	10/15/81-10/28/93	12	15	
HAFE0069	No	01362	SAMPLE WEIGHT-MAXIMUM G	10/11/89-10/28/93	4	12	
HAFE0100	No	01362	SAMPLE WEIGHT-MAXIMUM G	10/15/81-10/28/93	12	15	
HAFE0069	No	01371	SAMPLE, AVERAGE LENGTH BIOLOGICAL TISS.COMP. CM	10/11/89-10/28/93	4	12	
HAFE0100	No	01371	SAMPLE, AVERAGE LENGTH BIOLOGICAL TISS.COMP. CM	10/15/81-10/28/93	12	15	
HAFE0069	No	01373	SAMPLE, AVG WT BIOLOGICAL TISS OF COMPOSITE GRAMS	10/11/89-10/28/93	4	12	
HAFE0100	No	01373	SAMPLE, AVG WT BIOLOGICAL TISS OF COMPOSITE GRAMS	10/15/81-10/28/93	12	15	
HAFE0033	No	01501	ALPHA, TOTAL	10/08/69-09/23/71	1	3	
HAFE0052	Yes	01501	ALPHA, TOTAL	07/01/80-04/05/83	2	14	
HAFE0057	No	01501	ALPHA, TOTAL	04/30/59-04/30/59	0	1	
HAFE0058	No	01501	ALPHA, TOTAL	04/29/59-04/29/59	0	1	
HAFE0100	No	01501	ALPHA, TOTAL	07/01/80-04/05/83	2	14	
HAFE0052	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	04/05/83-04/05/83	0	1	
HAFE0100	No	01502	ALPHA, TOTAL, COUNTING ERROR	07/08/81-07/08/81	0	1	
HAFE0033	No	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/08/69-09/23/71	1	3	
HAFE0033	No	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/08/69-09/23/71	1	3	
HAFE0052	Yes	03221	INVALID PARAMETER	10/04/77-10/04/77	0	1	
HAFE0033	No	03501	BETA, TOTAL	10/08/69-09/23/71	1	3	
HAFE0052	Yes	03501	BETA, TOTAL	07/01/80-04/05/83	2	14	
HAFE0057	No	03501	BETA, TOTAL	04/30/59-04/30/59	0	1	
HAFE0058	No	03501	BETA, TOTAL	04/29/59-04/29/59	0	1	
HAFE0100	No	03501	BETA, TOTAL	07/01/80-04/05/83	2	14	
HAFE0052	Yes	03502	BETA, TOTAL, COUNTING ERROR	07/01/80-04/05/83	2	11	
HAFE0100	No	03502	BETA, TOTAL, COUNTING ERROR	07/01/80-04/05/83	2	10	
HAFE0033	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/08/69-09/23/71	1	3	
HAFE0033	No	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/08/69-09/23/71	1	3	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0069	No	03886	MERCURY,TOTAL, IN FISH, WET WEIGHT MG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	03886	MERCURY,TOTAL, IN FISH, WET WEIGHT MG/KG	10/15/81-09/27/84	2	5	
HAFE0100	No	03891	ZINC, IN FISH, WET WEIGHT MG/KG	09/27/84-09/27/84	0	2	
HAFE0069	No	03906	CHLORDANE, WET WEIGHT, FISH TISSUE UG/G	09/01/78-09/01/78	0	1	
HAFE0033	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0072	No	04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-06/05/94	1	16	
HAFE0033	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	0	1	
HAFE0057	No	09501	RADIUM 226, TOTAL	04/30/59-04/30/59	0	1	
HAFE0058	No	09501	RADIUM 226, TOTAL	04/29/59-04/29/59	0	1	
HAFE0057	No	22703	URANIUM, NATURAL, DISSOLVED	04/30/59-04/30/59	0	1	
HAFE0058	No	22703	URANIUM, NATURAL, DISSOLVED	04/29/59-04/29/59	0	1	
HAFE0046	No	30217	DIBROMOMETHANE, WATER, WHOLE, RECOVERABLE UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	30234	BROMACIL, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30235	BUTACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30236	BUTYLATE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30245	CARBOXIN, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30254	CYCLOATE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30255	DIPHENAMID, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30264	HEXAZINONE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30311	TERBACIL, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	30324	VERNOLATE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	0	1	
HAFE0020	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/05/74-02/12/74	0	2	
HAFE0030	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/05/74-02/12/74	0	2	
HAFE0036	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/05/74-02/12/74	0	2	
HAFE0052	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	17	162	
HAFE0100	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	17	157	
HAFE0019	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/18/68-05/12/78	9	13	
HAFE0020	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/08/71-01/22/74	2	52	
HAFE0030	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/19/71-01/22/74	2	48	
HAFE0032	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	10	66	
HAFE0034	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/21/66-06/02/81	15	65	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0036	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/08/71-01/22/74	2	50	
HAFE0049	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	06/14/67-06/14/67	0	1	
HAFE0051	Yes	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/19/71-12/11/72	1	28	
HAFE0078	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	15	133	
HAFE0083	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/18/74-06/02/81	7	51	
HAFE0085	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	06/14/67-06/15/67	0	5	
HAFE0102	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	02/13/73-04/17/73	0	2	
HAFE0032	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	01/29/86-06/22/87	1	16	
HAFE0037	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/28/69-08/18/69	0	2	
HAFE0078	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	01/29/86-06/22/87	1	17	
HAFE0079	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/28/69-08/18/69	0	2	
HAFE0086	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/29/69-08/19/69	0	2	
HAFE0005	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	03/28/79-06/04/87	8	2	
HAFE0032	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	01/21/85-12/18/85	0	12	
HAFE0037	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/28/69-08/18/69	0	2	
HAFE0078	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	04/07/80-12/18/85	5	58	
HAFE0079	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/28/69-08/18/69	0	2	
HAFE0086	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/29/69-08/19/69	0	2	
HAFE0020	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-10/30/73	0	1	
HAFE0030	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-10/30/73	0	1	
HAFE0032	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	4	54	
HAFE0034	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	15	65	
HAFE0036	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-12/04/73	0	2	
HAFE0049	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/14/67-06/14/67	0	1	
HAFE0078	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	4	54	
HAFE0083	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	7	51	
HAFE0085	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/14/67-06/15/67	0	5	
HAFE0004	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	6	39	
HAFE0007	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/31/75-06/04/87	11	3	
HAFE0019	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	8	90	
HAFE0026	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/27/92-05/16/96	4	17	
HAFE0029	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/75-06/19/75	0	1	
HAFE0032	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/29/86-06/22/87	1	16	
HAFE0033	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	7	57	
HAFE0035	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/75-06/19/75	0	1	
HAFE0050	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/11/96-06/17/96	0	2	
HAFE0052	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	48	270	T,A,S
HAFE0069	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	17	33	
HAFE0072	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/31/76-08/31/76	0	1	
HAFE0076	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/04/54-08/04/54	0	2	
HAFE0078	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/29/86-06/22/87	1	17	
HAFE0095	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/04/54-08/04/54	0	1	
HAFE0097	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/10/49-08/04/54	4	3	
HAFE0100	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	38	143	S
HAFE0102	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/13/73-04/17/73	0	2	
HAFE0060	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/10/93-10/20/93	0	3	
HAFE0072	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	14	89	
HAFE0080	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	14	90	
HAFE0091	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/27/88-07/27/88	0	1	
HAFE0098	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/29/88-06/21/89	0	2	
HAFE0103	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/10/84-07/22/85	0	3	
HAFE0108	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/29/88-06/21/89	0	3	
HAFE0060	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/10/93-10/20/93	0	3	
HAFE0072	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	14	91	
HAFE0080	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	14	89	
HAFE0091	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/27/88-07/27/88	0	1	
HAFE0098	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/29/88-06/21/89	0	2	
HAFE0103	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/10/84-07/22/85	0	3	
HAFE0108	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/29/88-06/21/89	0	3	
HAFE0033	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/31/76-08/31/76	0	1	
HAFE0052	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	6	55	
HAFE0072	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/31/76-08/31/76	0	1	
HAFE0100	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	6	55	
HAFE0001	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0060	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0001	No	32104	BROMOFORM,WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	32104	BROMOFORM,WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0105	No	32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	03/10/93-03/10/93	0	1	
HAFE0001	No	32106	CHLOROFORM,WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	32106	CHLOROFORM,WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	32106	CHLOROFORM,WHOLE WATER,UG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0032	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	4	62	
HAFE0037	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/28/69-08/18/69	0	2	
HAFE0052	Yes	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/02/87-06/13/95	8	49	
HAFE0078	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	4	62	
HAFE0079	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/28/69-08/18/69	0	2	
HAFE0086	No	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/29/69-08/19/69	0	2	
HAFE0032	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	9	79	
HAFE0052	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/03/77-06/13/95	18	77	
HAFE0078	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	9	75	
HAFE0032	No	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	4	62	
HAFE0078	No	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	4	62	
HAFE0032	No	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	4	62	
HAFE0078	No	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	4	62	
HAFE0032	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	9	79	
HAFE0052	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/02/87-06/13/95	8	49	
HAFE0078	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	9	75	
HAFE0052	Yes	32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/02/87-06/13/95	8	56	
HAFE0052	Yes	32223	CHLOROPHYLL A MG/M2 SPECTROPHOTOMETRIC CORRECTED	05/01/79-09/04/79	0	4	
HAFE0052	Yes	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	05/01/79-09/04/79	0	4	
HAFE0052	Yes	32230	CHLOROPHYLL A (MG/L)	04/02/87-06/13/95	8	56	
HAFE0052	Yes	32231	CHLOROPHYLL B (MG/L)	04/02/87-06/13/95	8	56	
HAFE0052	Yes	32232	CHLOROPHYLL C (MG/L)	04/02/87-06/13/95	8	56	
HAFE0002	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/13/73-02/13/73	0	1	
HAFE0027	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/19/72-02/13/73	0	2	
HAFE0033	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/08/69-12/03/73	4	8	
HAFE0052	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/03/82-10/02/84	2	24	
HAFE0072	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/28/60-04/18/61	0	2	
HAFE0080	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/28/60-04/18/61	0	2	
HAFE0100	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/03/82-10/02/84	2	24	
HAFE0001	No	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	04/27/89-04/27/89	0	1	
HAFE0046	No	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/17/91-07/08/92	1	2	
HAFE0060	No	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	03/10/93-03/10/93	0	1	
HAFE0001	No	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	04/27/89-04/27/89	0	1	
HAFE0046	No	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/17/91-07/08/92	1	2	
HAFE0060	No	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	03/10/93-03/10/93	0	1	
HAFE0105	No	34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34200	ACENAPHTHYLENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0111	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0046	No	34210	ACROLEIN TOTWUG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	34215	ACRYLONITRILE TOTWUG/L	07/08/92-07/08/92	0	1	
HAFE0105	No	34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34220	ANTHRACENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34223	ANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34223	ANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34223	ANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34223	ANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34247	BENZO-A-PYRENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0033	No	34253	A-BHC-ALPHA DISSUG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	34253	A-BHC-ALPHA DISSUG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	34253	A-BHC-ALPHA DISSUG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	34253	A-BHC-ALPHA DISSUG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	34253	A-BHC-ALPHA DISSUG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	34253	A-BHC-ALPHA DISSUG/L	09/08/93-09/08/93	0	1	
HAFE0105	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0069	No	34258	B-BHC-BETA WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	34258	B-BHC-BETA WET WGTTISMG/KG	10/15/81-09/27/84	2	4	
HAFE0026	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0069	No	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	10/15/81-09/27/84	2	6	
HAFE0105	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	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]
HAFE0114	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34301	CHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34301	CHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34301	CHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34311	CHLOROETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34311	CHLOROETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34311	CHLOROETHANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34320	CHRYSENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34323	CHRYSENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34323	CHRYSENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34323	CHRYSENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34323	CHRYSENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34336	DIETHYL PHTHALATE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34341	DIMETHYL PHTHALATE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	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]
HAFE0114	No	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0026	No	34351	ENDOSULFAN SULFATE TOTWUG/L	08/30/93-08/30/93	0	1	
HAFE0069	No	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0026	No	34356	ENDOSULFAN, BETA TOTWUG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34356	ENDOSULFAN, BETA TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0069	No	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0026	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	08/30/93-08/30/93	0	1	
HAFE0112	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0069	No	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0083	No	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10/22/82-10/22/82	0	2	
HAFE0026	No	34366	ENDRIN ALDEHYDE TOTWUG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34366	ENDRIN ALDEHYDE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0069	No	34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0001	No	34371	ETHYLBENZENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34371	ETHYLBENZENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34371	ETHYLBENZENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34376	FLUORANTHENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34381	FLUORENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34384	FLUORENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34384	FLUORENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34384	FLUORENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34384	FLUORENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/08/93-10/08/93	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]
HAFE0114	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34394	HEXACHLOROBUTADIENE BOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34394	HEXACHLOROBUTADIENE BOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34394	HEXACHLOROBUTADIENE BOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34394	HEXACHLOROBUTADIENE BOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34396	HEXACHLOROETHANE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34408	ISOPHORONE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34411	ISOPHORONE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34411	ISOPHORONE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34411	ISOPHORONE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34411	ISOPHORONE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34413	METHYL BROMIDE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34413	METHYL BROMIDE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34413	METHYL BROMIDE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34418	METHYL CHLORIDE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34418	METHYL CHLORIDE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34418	METHYL CHLORIDE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34423	METHYLENE CHLORIDE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34423	METHYLENE CHLORIDE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34423	METHYLENE CHLORIDE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34438	N-NITROSODIMETHYLAMINE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34447	NITROBENZENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34450	NITROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34450	NITROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34450	NITROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34450	NITROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34461	PHENANTHRENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34472	PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34472	PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34472	PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34472	PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34475	TETRACHLOROETHYLENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34475	TETRACHLOROETHYLENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34475	TETRACHLOROETHYLENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0026	No	34480	THALLIUM DRY WGTBOTMG/KG	08/03/92-08/28/95	3	2	
HAFE0105	No	34480	THALLIUM DRY WGTBOTMG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34480	THALLIUM DRY WGTBOTMG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34480	THALLIUM DRY WGTBOTMG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34480	THALLIUM DRY WGTBOTMG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34496	1,1-DICHLOROETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34496	1,1-DICHLOROETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34496	1,1-DICHLOROETHANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0111	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0105	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0060	No	34531	1,2-DICHLOROETHANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0046	No	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/08/92-07/08/92	0	1	
HAFE0105	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0111	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34561	1,3-DICHLOROPROPENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34561	1,3-DICHLOROPROPENE TOTWUG/L	06/17/91-06/17/91	0	1	
HAFE0001	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0001	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	0	1	
HAFE0001	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0105	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34591	2-NITROPHENOL TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0112	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34616	2,4-DINITROPHENOL TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34626	2,6-DINITROTOLUENE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0033	No	34653	P,P'-DDE DISSUG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	34653	P,P'-DDE DISSUG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	34653	P,P'-DDE DISSUG/L	09/08/93-09/08/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0065	No	34653	P,P'-DDE DISSUG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	34653	P,P'-DDE DISSUG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	34653	P,P'-DDE DISSUG/L	09/08/93-09/08/93	0	1	
HAFE0105	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/07/93-10/07/93	0	1	
HAFE0069	No	34664	PCB - 1221 WET WGTTISMG/KG	09/01/78-10/11/89	11	8	
HAFE0100	No	34664	PCB - 1221 WET WGTTISMG/KG	10/11/89-10/11/89	0	6	
HAFE0069	No	34667	PCB - 1232 WET WGTTISMG/KG	09/01/78-10/11/89	11	8	
HAFE0100	No	34667	PCB - 1232 WET WGTTISMG/KG	10/11/89-10/11/89	0	6	
HAFE0001	No	34668	DICHLORODIFUOROMETHANE TOTWUG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34668	DICHLORODIFUOROMETHANE TOTWUG/L	06/17/91-07/08/92	1	2	
HAFE0069	No	34669	PCB - 1248 WET WGTTISMG/KG	09/01/78-10/11/89	11	8	
HAFE0100	No	34669	PCB - 1248 WET WGTTISMG/KG	10/11/89-10/11/89	0	6	
HAFE0069	No	34670	PCB - 1260 WET WGTTISMG/KG	09/01/78-10/28/93	15	14	
HAFE0078	No	34670	PCB - 1260 WET WGTTISMG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34670	PCB - 1260 WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34670	PCB - 1260 WET WGTTISMG/KG	10/15/81-10/28/93	12	16	
HAFE0026	No	34671	PCB - 1016 TOTWUG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34671	PCB - 1016 TOTWUG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0069	No	34674	PCB - 1016 WET WGTTISMG/KG	09/01/78-10/11/89	11	8	
HAFE0100	No	34674	PCB - 1016 WET WGTTISMG/KG	10/11/89-10/11/89	0	6	
HAFE0069	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/01/78-09/01/78	0	2	
HAFE0078	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/15/81-09/27/84	2	6	
HAFE0083	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/01/80-10/01/82	2	8	
HAFE0069	No	34684	DIELDRIN TISMG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	34684	DIELDRIN TISMG/KG	10/15/81-09/27/84	2	4	
HAFE0069	No	34685	ENDRIN WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0078	No	34685	ENDRIN WET WGTTISMG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34685	ENDRIN WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34685	ENDRIN WET WGTTISMG/KG	10/15/81-09/27/84	2	6	
HAFE0069	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0078	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/15/81-09/27/84	2	6	
HAFE0069	No	34687	HEPTACHLOR WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0078	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/15/81-09/27/84	2	6	
HAFE0069	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0078	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/15/81-09/27/84	2	4	
HAFE0069	No	34689	PCB - 1242 WET WGTTISMG/KG	09/01/78-10/11/89	11	8	
HAFE0100	No	34689	PCB - 1242 WET WGTTISMG/KG	10/11/89-10/11/89	0	6	
HAFE0069	No	34691	TOXAPHENE WET WGTTISMG/KG	09/01/78-09/01/78	0	2	
HAFE0078	No	34691	TOXAPHENE WET WGTTISMG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	34691	TOXAPHENE WET WGTTISMG/KG	10/01/80-10/01/82	2	8	
HAFE0105	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/07/93-10/07/93	0	1	
HAFE0046	No	34696	NAPHTHALENE TOTWUG/L	07/08/92-07/08/92	0	1	
HAFE0105	No	34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	34696	NAPHTHALENE TOTWUG/L	12/17/93-12/17/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0114	No	34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	06/17/91-07/08/92	1	2	
HAFE0105	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0001	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	0	1	
HAFE0065	No	34790	SURFACTANTS, AS CTAS, WATER MG/L	08/11/92-08/11/92	0	1	
HAFE0072	No	34790	SURFACTANTS, AS CTAS, WATER MG/L	08/21/92-08/21/92	0	1	
HAFE0080	No	34790	SURFACTANTS, AS CTAS, WATER MG/L	08/21/92-08/21/92	0	1	
HAFE0065	No	34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34880	IRON,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34880	IRON,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34880	IRON,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0065	No	34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	34985	TIN,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	34985	TIN,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	34985	TIN,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0065	No	35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	0	1	
HAFE0072	No	35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0080	No	35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	0	1	
HAFE0033	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10/08/69-09/23/71	1	3	
HAFE0046	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/16/94-06/16/94	0	1	
HAFE0072	No	38442	DICAMBA (BANVEL) WATER,DISSUG/L	03/30/93-06/05/94	1	10	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0072	No	38478	LINURON WATER,DISSUG/L	03/30/93-06/05/94	1	11	
HAFE0072	No	38482	MCPA WATER,DISSUG/L	03/30/93-06/05/94	1	10	
HAFE0072	No	38487	MCPB WATER,DISSUG/L	03/30/93-06/05/94	1	10	
HAFE0072	No	38501	METHIOCARB WATER,DISSUG/L	03/30/93-06/05/94	1	11	
HAFE0072	No	38538	PROPOXUR WATER,DISSUG/L	03/30/93-05/03/94	1	10	
HAFE0072	No	38711	BENTAZON WATER, DISUG/L	03/30/93-06/05/94	1	10	
HAFE0026	No	38745	2,4-DB WATER, TOTUG/L	08/30/93-08/30/93	0	1	
HAFE0072	No	38746	2,4-DB WATER, DISUG/L	03/30/93-06/05/94	1	10	
HAFE0072	No	38811	FLUOMETURON WATER, DISUG/L	03/30/93-06/05/94	1	11	
HAFE0072	No	38866	OXAMYL WATER, DISUG/L	03/30/93-06/05/94	1	11	
HAFE0033	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	38933	CHLORPYRIFOS,DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0069	No	39015	ETHYLPARATHION, FLAME IONIFATION,WTR SMPLE(UG/L)	09/01/78-09/01/78	0	2	
HAFE0100	No	39015	ETHYLPARATHION, FLAME IONIFATION,WTR SMPLE(UG/L)	10/15/81-09/27/84	2	4	
HAFE0046	No	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	06/21/89-06/21/89	0	1	
HAFE0046	No	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0026	No	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	0	1	
HAFE0091	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39054	SIMETRYNE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39054	SIMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39054	SIMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0046	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0046	No	39056	PROMETONE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39056	PROMETONE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39056	PROMETONE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0046	No	39057	PROMETRYNE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39057	PROMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39057	PROMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	0	1	
HAFE0026	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/03/92-08/28/95	3	2	
HAFE0069	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/01/78-09/01/78	0	2	
HAFE0100	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/15/81-09/27/84	2	6	
HAFE0069	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/01/78-09/01/78	0	2	
HAFE0100	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/15/81-09/27/84	2	6	
HAFE0069	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/01/78-09/01/78	0	2	
HAFE0100	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/15/81-09/27/84	2	6	
HAFE0069	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/01/78-09/01/78	0	2	
HAFE0100	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/15/81-09/27/84	2	6	
HAFE0069	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/01/78-09/01/78	0	2	
HAFE0083	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/01/80-10/01/82	2	8	
HAFE0100	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/15/81-09/27/84	2	6	
HAFE0078	No	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	10/09/80-10/27/83	3	11	
HAFE0105	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/08/93-10/08/93	0	1	
HAFE0111	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/08/93-10/08/93	0	1	
HAFE0114	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/07/93-10/07/93	0	1	
HAFE0115	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/07/93-10/07/93	0	1	
HAFE0033	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	06/07/94-06/07/94	0	1	
HAFE0064	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-03/16/95	7	49	
HAFE0080	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-07/19/93	5	20	
HAFE0104	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	09/08/93-09/08/93	0	1	
HAFE0105	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0078	No	39105	PERCENT FAT HEXANE EXTRACTION	10/27/82-10/27/83	1	5	
HAFE0083	No	39105	PERCENT FAT HEXANE EXTRACTION	10/01/82-10/01/82	0	2	
HAFE0105	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0105	No	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0111	No	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0114	No	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0105	No	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/08/93-10/08/93	0	1	
HAFE0111	No	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/08/93-10/08/93	0	1	
HAFE0114	No	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/07/93-10/07/93	0	1	
HAFE0115	No	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/07/93-10/07/93	0	1	
HAFE0001	No	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	03/10/93-03/10/93	0	1	
HAFE0001	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	06/17/91-07/08/92	1	2	
HAFE0060	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	03/10/93-03/10/93	0	1	
HAFE0105	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	0	1	
HAFE0033	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	03/28/89-06/21/89	0	2	
HAFE0069	No	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	09/01/78-09/01/78	0	2	
HAFE0078	No	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/09/80-10/27/83	3	11	
HAFE0100	No	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/15/81-10/15/81	0	2	
HAFE0026	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0083	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/01/80-10/01/82	2	8	
HAFE0026	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0105	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0111	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0114	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0105	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0111	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0114	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0115	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0083	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/01/80-10/01/82	2	8	
HAFE0100	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/17/83-10/17/83	0	2	
HAFE0069	No	39317	P,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	39317	P,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	10/15/81-09/27/84	2	6	
HAFE0069	No	39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	10/15/81-09/27/84	2	6	
HAFE0026	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0105	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0111	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0114	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0105	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0111	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0114	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0115	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0069	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/01/78-09/01/78	0	2	
HAFE0083	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/01/80-10/01/82	2	8	
HAFE0100	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/15/81-09/27/84	2	6	
HAFE0026	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0091	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0105	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0108	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0111	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0114	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0046	No	39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/03/92-08/28/95	3	2	
HAFE0033	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0105	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0111	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0114	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0115	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0026	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/30/93-08/30/93	0	1	
HAFE0105	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0111	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0112	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	12/17/93-12/17/93	0	1	
HAFE0114	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0115	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0026	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/30/93-08/30/93	0	1	
HAFE0105	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0111	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0112	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	12/17/93-12/17/93	0	1	
HAFE0114	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0115	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	0	1	
HAFE0026	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	08/30/93-08/30/93	0	1	
HAFE0033	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	08/31/76-08/31/76	0	1	
HAFE0072	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	08/31/76-08/31/76	0	1	
HAFE0091	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/27/88-07/27/88	0	1	
HAFE0098	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/21/89-06/21/89	0	1	
HAFE0105	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0108	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/28/89-06/21/89	0	2	
HAFE0111	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0033	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	07/08/92-06/16/94	1	2	
HAFE0064	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	4	2	
HAFE0072	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	4	2	
HAFE0078	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/09/80-10/27/83	3	11	
HAFE0105	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0033	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	08/31/76-08/31/76	0	1	
HAFE0072	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	08/31/76-08/31/76	0	1	
HAFE0091	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/88-07/27/88	0	1	
HAFE0098	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/21/89-06/21/89	0	1	
HAFE0105	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0108	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	03/28/89-06/21/89	0	2	
HAFE0111	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	0	1	
HAFE0026	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/03/92-08/28/95	3	2	
HAFE0033	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	4	2	
HAFE0072	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	4	2	
HAFE0105	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	0	1	
HAFE0046	No	39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	07/08/92-07/08/92	0	1	
HAFE0033	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0098	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/03/92-08/28/95	3	2	
HAFE0033	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0019	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	05/03/71-05/03/71	0	1	
HAFE0033	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/03/92-08/28/95	3	2	
HAFE0033	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0002	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/20/72-02/13/73	0	2	
HAFE0027	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/19/72-02/13/73	0	2	
HAFE0033	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/03/92-08/28/95	3	2	
HAFE0033	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0026	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0112	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0033	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	0	1	
HAFE0046	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	1	2	
HAFE0064	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0065	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	0	1	
HAFE0072	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	1	18	
HAFE0104	No	39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0026	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/03/92-08/28/95	3	2	
HAFE0033	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/17/72-08/31/76	4	2	
HAFE0072	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/17/72-08/31/76	4	2	
HAFE0091	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0026	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0098	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0112	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0046	No	39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/03/92-08/28/95	3	2	
HAFE0033	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0033	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0026	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0105	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0108	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0111	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0114	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0046	No	39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/03/92-08/28/95	3	2	
HAFE0033	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/31/76-08/31/76	0	1	
HAFE0072	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/31/76-08/31/76	0	1	
HAFE0105	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/08/93-10/08/93	0	1	
HAFE0111	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/08/93-10/08/93	0	1	
HAFE0114	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/07/93-10/07/93	0	1	
HAFE0115	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/07/93-10/07/93	0	1	
HAFE0078	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/09/80-10/27/83	3	11	
HAFE0083	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/01/80-10/01/82	2	8	
HAFE0100	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/83-10/17/83	0	2	
HAFE0100	No	39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	10/17/83-10/17/83	0	2	
HAFE0026	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0026	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/03/92-08/28/95	3	2	
HAFE0033	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0033	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	39415	METOLACHLOR, WATER, DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0026	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0105	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0108	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0111	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0114	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0046	No	39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	07/08/92-07/08/92	0	1	
HAFE0033	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/31/76-08/31/76	0	1	
HAFE0072	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/31/76-08/31/76	0	1	
HAFE0105	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/08/93-10/08/93	0	1	
HAFE0111	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/08/93-10/08/93	0	1	
HAFE0114	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/07/93-10/07/93	0	1	
HAFE0115	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/07/93-10/07/93	0	1	
HAFE0033	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0112	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0026	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/07/93-10/07/93	0	1	
HAFE0026	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	0	1	

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

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0114	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	0	1	
HAFE0026	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0078	No	39497	PCB - 1242 IN FISH OR ANIMALS WET WGT UG/KG	10/09/80-10/27/83	3	11	
HAFE0105	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	0	1	
HAFE0026	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	0	1	
HAFE0112	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	0	1	
HAFE0026	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	0	1	
HAFE0105	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0112	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	0	1	
HAFE0114	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	0	1	
HAFE0069	No	39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	09/01/78-10/11/89	11	8	
HAFE0078	No	39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	10/09/80-10/27/83	3	11	
HAFE0100	No	39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	10/15/81-10/11/89	7	12	
HAFE0105	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/08/93-10/08/93	0	1	
HAFE0111	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/08/93-10/08/93	0	1	
HAFE0114	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/07/93-10/07/93	0	1	
HAFE0115	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/07/93-10/07/93	0	1	
HAFE0026	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	0	1	
HAFE0033	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0072	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/17/72-08/31/76	4	2	
HAFE0069	No	39525	PCBS TOTAL,FISH TISSUE WET (ISOMER ANALYSES) MG/KG	09/01/78-10/28/93	15	14	
HAFE0100	No	39525	PCBS TOTAL,FISH TISSUE WET (ISOMER ANALYSES) MG/KG	09/27/84-10/28/93	9	11	
HAFE0026	No	39526	PCBS TOTAL,IN SEDIMENT,DRY (ISOMER ANALYSES) UG/KG	08/03/92-08/28/95	3	2	
HAFE0033	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0033	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	0	1	
HAFE0046	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	1	2	
HAFE0064	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0065	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	0	1	
HAFE0072	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	1	18	
HAFE0104	No	39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0033	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0072	No	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0033	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	0	1	
HAFE0046	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	1	2	
HAFE0064	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0065	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	0	1	
HAFE0072	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	1	18	
HAFE0104	No	39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0033	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0033	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	0	1	
HAFE0046	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	1	2	
HAFE0064	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0065	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	0	1	
HAFE0072	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	1	18	
HAFE0104	No	39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	0	1	
HAFE0033	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0046	No	39602	METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L)	07/08/92-07/08/92	0	1	
HAFE0046	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	0	1	
HAFE0098	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0033	No	39632	ATRAZINE DISSOLVED IN WATER PPB	06/07/94-06/07/94	0	1	
HAFE0046	No	39632	ATRAZINE DISSOLVED IN WATER PPB	06/16/94-06/16/94	0	1	
HAFE0064	No	39632	ATRAZINE DISSOLVED IN WATER PPB	09/08/93-09/08/93	0	1	
HAFE0065	No	39632	ATRAZINE DISSOLVED IN WATER PPB	09/07/93-09/07/93	0	1	
HAFE0072	No	39632	ATRAZINE DISSOLVED IN WATER PPB	03/30/93-07/07/94	1	18	
HAFE0104	No	39632	ATRAZINE DISSOLVED IN WATER PPB	09/08/93-09/08/93	0	1	
HAFE0105	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0111	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0112	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	0	1	
HAFE0114	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0115	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	0	1	
HAFE0105	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0111	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	0	1	
HAFE0114	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0115	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	0	1	
HAFE0046	No	39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	07/08/92-07/08/92	0	1	
HAFE0100	No	39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	10/17/83-10/17/83	0	2	
HAFE0001	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/21/93-04/21/93	0	1	
HAFE0026	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0046	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	0	1	
HAFE0072	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0033	No	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-06/05/94	1	15	
HAFE0001	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	04/21/93-04/21/93	0	1	
HAFE0026	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0046	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	0	1	
HAFE0072	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0033	No	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-06/05/94	1	15	
HAFE0091	No	39755	MIREX, TOTAL (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39755	MIREX, TOTAL (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39755	MIREX, TOTAL (UG/L)	03/28/89-06/21/89	0	2	
HAFE0046	No	39756	MIREX, DISSOLVED (UG/L)	07/08/92-07/08/92	0	1	
HAFE0001	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	04/21/93-04/21/93	0	1	
HAFE0026	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	0	1	
HAFE0033	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0046	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0072	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0033	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-06/05/94	1	15	
HAFE0083	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/01/80-10/01/82	2	8	
HAFE0033	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0033	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0072	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	0	1	
HAFE0091	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	0	1	
HAFE0098	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	0	1	
HAFE0108	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	0	2	
HAFE0033	No	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0072	No	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	0	1	
HAFE0069	No	45554	O,P'-DDD IN TISSUE WET WEIGHT UG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	45554	O,P'-DDD IN TISSUE WET WEIGHT UG/KG	10/15/81-09/27/84	2	6	
HAFE0033	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0026	No	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/02/93-08/03/94	1	2	
HAFE0072	No	49235	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49236	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0069	No	49289	INVALID PARAMETER	10/11/89-10/28/93	4	12	
HAFE0100	No	49289	INVALID PARAMETER	09/27/84-10/28/93	9	12	
HAFE0072	No	49291	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49292	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49293	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49294	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49295	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49296	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49297	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49298	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49299	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49300	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49301	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49302	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49303	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49304	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49305	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49306	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49307	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49308	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49309	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49310	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49311	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0072	No	49312	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49313	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49314	INVALID PARAMETER	03/30/93-06/05/94	1	11	
HAFE0072	No	49315	INVALID PARAMETER	03/30/93-06/05/94	1	10	
HAFE0069	No	49375	INVALID PARAMETER	09/01/78-09/01/78	0	2	
HAFE0100	No	49375	INVALID PARAMETER	10/15/81-09/27/84	2	4	
HAFE0019	No	50060	CHLORINE, TOTAL RESIDUAL (MG/L)	10/25/76-11/28/78	2	5	
HAFE0020	No	51505	INVALID PARAMETER	08/02/71-08/16/71	0	2	
HAFE0030	No	51505	INVALID PARAMETER	08/02/71-08/16/71	0	2	
HAFE0036	No	51505	INVALID PARAMETER	08/02/71-08/16/71	0	2	
HAFE0051	Yes	51505	INVALID PARAMETER	08/02/71-08/16/71	0	2	
HAFE0072	No	60050	ALGAE, TOTAL (CELLS/ML)	03/29/79-09/14/81	2	14	
HAFE0080	No	60050	ALGAE, TOTAL (CELLS/ML)	03/29/79-07/20/81	2	13	
HAFE0032	No	70222	WAVE HEIGHT (WMO CODE 1555)	01/29/86-06/22/87	1	19	
HAFE0078	No	70222	WAVE HEIGHT (WMO CODE 1555)	01/29/86-06/22/87	1	18	
HAFE0033	No	70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	09/12/73-12/03/73	0	2	
HAFE0001	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/21/81-04/21/93	11	6	
HAFE0010	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/85-04/15/86	0	2	
HAFE0013	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/25/81-08/25/81	0	1	

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Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0016	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/19/85-04/14/86	0	2	
HAFE0025	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/19/69-05/19/69	0	1	
HAFE0033	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/63-04/02/86	22	53	
HAFE0034	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	15	77	
HAFE0046	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/04/90-06/16/94	3	7	
HAFE0052	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	9	106	
HAFE0060	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/93-05/16/95	2	9	
HAFE0064	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/19/85-09/07/93	7	3	
HAFE0072	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	34	128	T,S
HAFE0080	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-09/13/93	32	102	S
HAFE0083	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/74-06/02/81	7	61	
HAFE0091	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/27/88-07/27/88	0	1	
HAFE0098	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/29/88-06/21/89	0	2	
HAFE0100	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	9	102	
HAFE0103	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/10/84-07/22/85	0	3	
HAFE0104	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/08/93-09/08/93	0	1	
HAFE0108	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/29/88-06/21/89	0	3	
HAFE0001	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/21/81-08/21/81	0	1	
HAFE0013	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/25/81-08/25/81	0	1	
HAFE0025	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/19/69-05/19/69	0	1	
HAFE0033	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	19	123	
HAFE0057	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/15/59-04/15/59	0	1	
HAFE0072	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/06/86	25	44	S
HAFE0080	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/07/86	25	40	S
HAFE0025	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	05/19/69-05/19/69	0	1	
HAFE0033	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	19	128	
HAFE0072	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-01/06/86	25	44	S
HAFE0080	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-11/30/82	22	37	
HAFE0025	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/19/69-05/19/69	0	1	
HAFE0033	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	19	128	
HAFE0072	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-01/06/86	25	45	S
HAFE0080	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-02/08/83	22	41	
HAFE0033	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/19/61-02/19/61	0	1	
HAFE0072	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	14	92	
HAFE0080	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	14	93	
HAFE0033	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	11/06/85-11/06/85	0	1	
HAFE0033	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	11/06/85-11/06/85	0	1	
HAFE0033	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	11/06/85-11/06/85	0	1	
HAFE0080	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	11/06/85-11/06/85	0	1	
HAFE0033	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/19/61-02/19/61	0	1	
HAFE0033	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	11/06/85-11/06/85	0	1	
HAFE0033	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	11/06/85-11/06/85	0	1	
HAFE0033	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	11/06/85-11/06/85	0	1	
HAFE0033	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/19/61-02/19/61	0	1	
HAFE0080	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	11/06/85-11/06/85	0	1	
HAFE0004	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/12/73-05/23/79	6	41	
HAFE0019	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	9	99	
HAFE0001	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/16/91-05/12/92	1	2	
HAFE0004	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/73-05/23/79	6	41	
HAFE0019	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	9	100	
HAFE0026	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/03/92-05/16/96	3	15	
HAFE0033	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/31/76-08/31/76	0	1	
HAFE0046	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/04/90-07/08/92	1	5	
HAFE0052	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/10/75-06/07/77	1	17	
HAFE0072	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/31/76-08/31/92	16	12	
HAFE0080	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/22/90-08/31/92	1	11	
HAFE0100	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/10/75-05/27/81	5	18	
HAFE0050	Yes	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	03/11/96-06/17/96	0	2	
HAFE0052	Yes	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	15	182	A
HAFE0060	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	03/09/93-05/16/95	2	9	
HAFE0066	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0067	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0070	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0076	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/03/88	0	12	
HAFE0089	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0092	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/07/87-09/07/88	0	12	
HAFE0095	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	11	
HAFE0099	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0100	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	5	54	
HAFE0106	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0118	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	0	12	
HAFE0072	No	70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	06/23/94-06/23/94	0	1	
HAFE0072	No	70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	06/23/94-06/23/94	0	1	
HAFE0072	No	71820	DENSITY (GM/ML AT 20 C)	07/01/86-07/01/86	0	1	
HAFE0080	No	71820	DENSITY (GM/ML AT 20 C)	07/01/86-07/01/86	0	1	
HAFE0033	No	71825	ACIDITY, TOTAL (MG/L AS H)	09/12/73-12/03/73	0	4	
HAFE0072	No	71825	ACIDITY, TOTAL (MG/L AS H)	01/05/87-01/05/87	0	1	
HAFE0072	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/29/79-01/19/81	1	24	
HAFE0080	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/29/79-01/19/81	1	23	
HAFE0033	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	07/20/72-09/12/73	1	3	
HAFE0072	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/06/86	6	30	
HAFE0080	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/07/86	6	24	
HAFE0033	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/15/72-05/09/72	0	3	
HAFE0072	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/19/61-06/19/61	0	1	
HAFE0094	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	05/08/70-05/08/70	0	1	
HAFE0109	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/26/45-05/03/57	12	2	
HAFE0117	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	05/16/33-05/16/33	0	1	
HAFE0025	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/19/69-05/19/69	0	1	
HAFE0033	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	10	91	
HAFE0044	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/20/59-05/20/59	0	1	
HAFE0047	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/20/59-05/20/59	0	1	
HAFE0056	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/20/59-05/20/59	0	1	
HAFE0057	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/15/59-04/15/59	0	1	
HAFE0058	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/23/59-04/23/59	0	1	
HAFE0072	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-01/06/86	25	3	
HAFE0080	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-08/09/65	4	6	
HAFE0033	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	05/30/73-09/12/73	0	2	
HAFE0072	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	11/06/85-01/06/86	0	2	
HAFE0033	No	71885	IRON (UG/L AS FE)	10/19/65-09/08/66	0	8	
HAFE0002	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/20/72-04/17/73	0	3	
HAFE0010	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/25/85-09/25/85	0	1	
HAFE0016	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/19/85-09/19/85	0	1	
HAFE0027	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/24/72-04/17/73	0	4	
HAFE0033	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/13/80-09/25/85	5	8	
HAFE0037	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/28/69-08/18/69	0	2	
HAFE0048	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/24/72-04/17/73	0	5	
HAFE0065	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/19/85-09/19/85	0	1	
HAFE0072	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/06/86	6	46	
HAFE0079	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/28/69-08/18/69	0	2	
HAFE0080	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/07/86	6	47	
HAFE0086	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/29/69-08/19/69	0	2	
HAFE0102	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/24/72-04/17/73	0	4	
HAFE0033	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	08/31/76-08/31/76	0	1	
HAFE0072	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	08/31/76-09/14/81	5	26	
HAFE0080	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/29/79-07/20/81	2	26	
HAFE0110	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/19/77-04/19/77	0	1	
HAFE0001	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/27/89-04/27/89	0	1	
HAFE0046	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	06/17/91-06/17/91	0	1	
HAFE0072	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	12	47	
HAFE0080	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	12	50	
HAFE0072	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	03/29/79-09/20/82	3	7	
HAFE0080	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	03/29/79-09/20/82	3	8	
HAFE0001	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/21/81-08/21/81	0	1	
HAFE0004	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/15/73-11/28/78	5	7	
HAFE0007	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/04/87-06/04/87	0	1	
HAFE0013	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/25/81-08/25/81	0	1	
HAFE0019	No	71900	MERCURY, TOTAL (UG/L AS HG)	11/17/70-04/26/79	8	18	
HAFE0023	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/15/88-08/15/88	0	1	
HAFE0026	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/02/93-08/03/94	1	2	
HAFE0027	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/24/72-05/24/72	0	1	
HAFE0033	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/31/76-08/31/76	0	1	
HAFE0048	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/24/72-05/25/72	0	2	
HAFE0050	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/17/96-06/17/96	0	1	
HAFE0052	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	14	64	
HAFE0060	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/09/93-03/14/95	2	8	
HAFE0066	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0067	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	

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Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0070	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0072	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/31/76-09/20/82	6	13	
HAFE0076	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-08/03/88	0	1	
HAFE0080	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/29/79-09/20/82	3	14	
HAFE0089	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0092	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0095	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/07/88-09/07/88	0	1	
HAFE0099	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0100	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	14	64	
HAFE0102	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/24/72-05/24/72	0	1	
HAFE0106	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0118	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	0	2	
HAFE0026	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/03/92-08/28/95	3	2	
HAFE0033	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0072	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	05/17/72-08/31/76	4	2	
HAFE0078	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/09/80-10/27/83	3	11	
HAFE0083	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/80-10/01/82	2	8	
HAFE0100	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/22/82-10/17/83	0	4	
HAFE0069	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/01/78-09/01/78	0	2	
HAFE0078	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	3	11	
HAFE0083	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	2	8	
HAFE0100	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/15/81-09/27/84	2	6	
HAFE0069	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/01/78-09/01/78	0	2	
HAFE0078	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	3	11	
HAFE0083	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	2	8	
HAFE0100	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/15/81-09/27/84	2	6	
HAFE0078	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	3	11	
HAFE0083	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	2	8	
HAFE0100	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/17/83-10/17/83	0	2	
HAFE0069	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/01/78-09/01/78	0	2	
HAFE0078	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	3	11	
HAFE0083	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	2	8	
HAFE0100	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/15/81-09/27/84	2	6	
HAFE0069	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/01/78-09/01/78	0	2	
HAFE0078	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/09/80-10/27/83	3	11	
HAFE0083	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/80-10/01/82	2	7	
HAFE0100	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/15/81-09/27/84	2	6	
HAFE0001	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	06/16/83-04/21/93	9	6	
HAFE0033	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	03/04/59-08/20/68	9	52	
HAFE0044	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	05/20/59-05/20/59	0	1	
HAFE0046	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/04/90-06/16/94	3	7	
HAFE0047	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	05/20/59-05/20/59	0	1	
HAFE0056	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	05/20/59-05/20/59	0	1	
HAFE0057	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	04/15/59-04/30/59	0	2	
HAFE0058	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	04/23/59-04/29/59	0	2	
HAFE0072	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/31/45-01/06/86	40	153	
HAFE0001	No	72006	SAMPLING CONDITION CODE (BM WELL DATA)	04/27/89-04/21/93	3	5	
HAFE0046	No	72006	SAMPLING CONDITION CODE (BM WELL DATA)	10/04/90-06/16/94	3	7	
HAFE0026	No	75045	HEPTACHLOR EPOXIDE SEDIMENT,DRY,WT,UG/KG	08/03/92-08/28/95	3	2	
HAFE0046	No	75980	ATRAZINE,DE-ISOPROPYL-, WATER, TOTAL UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	75981	ATRAZINE,DE-ETHYL-, WATER, TOTAL UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0001	No	77128	STYRENE WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	77128	STYRENE WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0046	No	77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77224	N-PROPYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77342	N-BUTYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	0	1	
HAFE0001	No	77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	04/27/89-04/27/89	0	1	

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Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0046	No	77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	06/17/91-07/08/92	1	2	
HAFE0026	No	77825	ALACHLOR WHOLE WATER,UG/L	08/30/93-08/30/93	0	1	
HAFE0046	No	77825	ALACHLOR WHOLE WATER,UG/L	06/17/91-06/17/91	0	1	
HAFE0098	No	77825	ALACHLOR WHOLE WATER,UG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	77825	ALACHLOR WHOLE WATER,UG/L	06/21/89-06/21/89	0	1	
HAFE0105	No	78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	0	1	
HAFE0105	No	78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0111	No	78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0114	No	78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0115	No	78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0105	No	78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	

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

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0111	No	78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0114	No	78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0115	No	78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	0	1	
HAFE0105	No	78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0115	No	79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0105	No	79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0111	No	79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0114	No	79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0115	No	79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	0	1	
HAFE0026	No	79799	DICOFOL (KELTHANE) SEDIMENT,DRY,WT,UG/KG	08/03/92-08/28/95	3	2	
HAFE0105	No	80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/08/93-07/07/94	0	2	
HAFE0111	No	80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/08/93-07/07/94	0	2	
HAFE0114	No	80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/07/93-07/07/94	0	2	
HAFE0115	No	80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/07/93-07/07/94	0	2	
HAFE0033	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/04/59-06/07/94	35	20	
HAFE0072	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-08/01/94	15	112	
HAFE0080	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-09/13/93	14	93	
HAFE0033	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/04/59-12/05/72	13	19	
HAFE0072	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-01/06/86	6	35	
HAFE0080	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-03/18/91	11	33	
HAFE0105	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/08/93-10/08/93	0	1	
HAFE0111	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/08/93-10/08/93	0	1	
HAFE0114	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/07/93-10/07/93	0	1	
HAFE0115	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/07/93-10/07/93	0	1	
HAFE0105	No	80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	10/08/93-10/08/93	0	1	
HAFE0111	No	80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	10/08/93-10/08/93	0	1	
HAFE0115	No	80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	10/07/93-10/07/93	0	1	
HAFE0105	No	80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	10/08/93-10/08/93	0	1	
HAFE0111	No	80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	10/08/93-10/08/93	0	1	
HAFE0115	No	80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	10/07/93-10/07/93	0	1	
HAFE0111	No	80216	BED MATERIAL SIEVE DIAMETER, % FINER THAN 19.1MM	10/08/93-10/08/93	0	1	
HAFE0072	No	80220	SUSPENDED SAND CONCENTRATION (>.0625MM) MG/L	09/04/90-10/22/90	0	2	
HAFE0105	No	80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/08/93-10/08/93	0	1	
HAFE0111	No	80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/08/93-10/08/93	0	1	
HAFE0114	No	80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/07/93-10/07/93	0	1	
HAFE0115	No	80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/07/93-10/07/93	0	1	
HAFE0105	No	80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/08/93-10/08/93	0	1	
HAFE0111	No	80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/08/93-10/08/93	0	1	
HAFE0114	No	80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/07/93-10/07/93	0	1	
HAFE0115	No	80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/07/93-10/07/93	0	1	
HAFE0072	No	81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	10/31/45-01/06/86	40	153	
HAFE0001	No	81551	XYLENE WHL WATER SMPL UG/L	04/27/89-04/27/89	0	1	
HAFE0046	No	81551	XYLENE WHL WATER SMPL UG/L	06/17/91-07/08/92	1	2	
HAFE0105	No	81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	0	1	
HAFE0111	No	81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	0	1	
HAFE0114	No	81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	0	1	
HAFE0115	No	81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	0	1	
HAFE0046	No	81555	BROMOBENZENE WHL WATER SMPL UG/L	07/08/92-07/08/92	0	1	
HAFE0069	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/01/78-10/28/93	15	14	
HAFE0083	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/01/80-10/01/82	2	8	
HAFE0100	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/15/81-10/28/93	12	19	
HAFE0100	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	10/22/82-10/17/83	0	4	
HAFE0069	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	09/01/78-09/01/78	0	2	
HAFE0078	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/09/80-10/27/83	3	11	
HAFE0083	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/01/80-10/01/82	2	8	
HAFE0100	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/17/83-10/17/83	0	2	
HAFE0078	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/09/80-10/27/83	3	11	
HAFE0083	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/01/80-10/01/82	2	8	
HAFE0069	No	81654	ISODRIN IN FISH TISSUE WET WEIGHT MG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	81724	NICKEL IN FISH TISSUE,DRY WEIGHT,MG/KG	09/27/84-09/27/84	0	2	
HAFE0100	No	81742	SILVER IN FISH TISSUE WET WEIGHT (MG/KG)PPM	10/15/81-10/17/83	2	4	
HAFE0046	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/17/91-06/17/91	0	1	
HAFE0098	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/21/89-06/21/89	0	1	
HAFE0069	No	81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	10/15/81-09/27/84	2	6	
HAFE0078	No	81826	BHC(BENZENE HEXACHLORIDE) FISH TISS WET WGT MG/KG	10/09/80-10/27/83	3	11	
HAFE0078	No	81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	10/09/80-10/27/83	3	11	
HAFE0078	No	81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	10/09/80-10/27/83	3	11	
HAFE0078	No	82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/09/80-10/27/83	3	11	
HAFE0083	No	82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/80-10/01/82	2	8	
HAFE0069	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/01/78-09/01/78	0	2	
HAFE0100	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/27/84-09/27/84	0	2	
HAFE0026	No	82032	CALCIUM - TOTAL UG/L (AS CA)	02/02/93-02/02/93	0	1	
HAFE0001	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/21/81-08/21/81	0	1	
HAFE0013	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/25/81-08/25/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0033	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/20/81-08/28/81	0	3	
HAFE0072	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/19/81-03/17/81	0	2	
HAFE0080	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/19/81-07/20/81	0	4	
HAFE0026	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/92-05/17/94	1	7	
HAFE0024	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/07/88	2	24	
HAFE0038	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/08/88	2	24	
HAFE0039	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/07/88	2	24	
HAFE0040	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/08/88	2	24	
HAFE0041	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/28/85-07/08/88	2	23	
HAFE0042	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/17/88	2	24	
HAFE0045	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/30/85-07/08/88	2	24	
HAFE0052	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	105	
HAFE0055	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/07/88	2	24	
HAFE0100	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	104	
HAFE0001	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	04/21/93-04/21/93	0	1	
HAFE0046	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	06/17/91-06/17/91	0	1	
HAFE0046	No	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	06/17/91-06/17/91	0	1	
HAFE0098	No	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	06/21/89-06/21/89	0	1	
HAFE0046	No	82303	RADON 222, TOTAL IN WATER PC/L	07/08/92-07/08/92	0	1	
HAFE0060	No	82303	RADON 222, TOTAL IN WATER PC/L	03/10/93-03/10/93	0	1	
HAFE0046	No	82342	TRITHION, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	82344	METHYLTRITHION, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	82346	ETHION, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	82348	PERTHANE, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	82350	METHOXYCHLOR, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	82354	ENDOSULFAN, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	0	1	
HAFE0046	No	82360	NAPTHALENES,POLYCHLORINATED DISSOLVED IN WATR UG/L	07/08/92-07/08/92	0	1	
HAFE0001	No	82398	SAMPLING METHOD (CODES)	04/27/89-04/21/93	3	5	
HAFE0010	No	82398	SAMPLING METHOD (CODES)	09/25/85-09/25/85	0	1	
HAFE0016	No	82398	SAMPLING METHOD (CODES)	09/19/85-09/19/85	0	1	
HAFE0033	No	82398	SAMPLING METHOD (CODES)	09/25/85-09/25/85	0	1	
HAFE0046	No	82398	SAMPLING METHOD (CODES)	10/04/90-06/16/94	3	7	
HAFE0061	No	82398	SAMPLING METHOD (CODES)	08/03/88-08/03/88	0	1	
HAFE0062	No	82398	SAMPLING METHOD (CODES)	08/03/88-08/03/88	0	1	
HAFE0065	No	82398	SAMPLING METHOD (CODES)	09/19/85-09/19/85	0	1	
HAFE0072	No	82398	SAMPLING METHOD (CODES)	03/29/79-07/20/81	2	10	
HAFE0073	No	82398	SAMPLING METHOD (CODES)	08/03/88-08/03/88	0	1	
HAFE0080	No	82398	SAMPLING METHOD (CODES)	06/12/79-09/14/81	2	9	
HAFE0084	No	82398	SAMPLING METHOD (CODES)	08/02/88-08/02/88	0	1	
HAFE0087	No	82398	SAMPLING METHOD (CODES)	08/03/88-08/03/88	0	1	
HAFE0093	No	82398	SAMPLING METHOD (CODES)	08/02/88-08/02/88	0	1	
HAFE0098	No	82398	SAMPLING METHOD (CODES)	09/29/88-06/21/89	0	2	
HAFE0101	No	82398	SAMPLING METHOD (CODES)	08/02/88-08/02/88	0	1	
HAFE0108	No	82398	SAMPLING METHOD (CODES)	09/29/88-06/21/89	0	3	
HAFE0116	No	82398	SAMPLING METHOD (CODES)	08/03/88-08/03/88	0	1	
HAFE0119	No	82398	SAMPLING METHOD (CODES)	08/04/88-08/04/88	0	1	
HAFE0120	No	82398	SAMPLING METHOD (CODES)	08/03/88-08/03/88	0	1	
HAFE0060	No	82561	NET CONDUCTIVITY IN WATER UMHOS/CM	03/09/93-03/17/94	1	4	
HAFE0046	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/17/91-06/17/91	0	1	
HAFE0098	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	0	1	
HAFE0046	No	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/17/91-06/17/91	0	1	
HAFE0098	No	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	0	1	
HAFE0108	No	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	0	1	
HAFE0046	No	82625	DIBROMOCHLOROPROPANE, WATER,TOTAL RECOVERABLE,UG/L	07/08/92-07/08/92	0	1	
HAFE0033	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0072	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0072	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0072	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0033	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	0	1	
HAFE0046	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	0	1	
HAFE0064	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0065	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	0	1	
HAFE0072	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	1	18	
HAFE0104	No	82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	0	1	
HAFE0001	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/21/81-04/21/93	11	7	
HAFE0013	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/25/81-08/25/81	0	1	
HAFE0044	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/20/59-05/20/59	0	1	
HAFE0046	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/04/90-06/16/94	3	6	
HAFE0047	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/20/59-05/20/59	0	1	
HAFE0056	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/20/59-05/20/59	0	1	
HAFE0057	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/15/59-04/30/59	0	2	
HAFE0058	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/23/59-04/29/59	0	2	
HAFE0061	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/03/88-08/03/88	0	1	
HAFE0062	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/24/74-08/03/88	13	2	
HAFE0073	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/24/74-08/25/88	13	2	
HAFE0077	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/25/74-09/25/74	0	1	
HAFE0084	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/02/88-08/02/88	0	1	
HAFE0087	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/24/74-09/24/74	0	1	
HAFE0091	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/27/88-07/27/88	0	1	
HAFE0093	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/25/74-09/25/74	0	1	
HAFE0094	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/08/70-05/08/70	0	1	
HAFE0101	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/25/88-08/25/88	0	1	
HAFE0109	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	01/26/45-05/03/57	12	2	
HAFE0110	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/19/77-04/19/77	0	1	
HAFE0119	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/25/88-08/25/88	0	1	
HAFE0001	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/21/81-04/21/93	11	7	
HAFE0013	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/25/81-08/25/81	0	1	
HAFE0044	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/20/59-05/20/59	0	1	
HAFE0046	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/04/90-06/16/94	3	6	
HAFE0047	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/20/59-05/20/59	0	1	
HAFE0056	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/20/59-05/20/59	0	1	
HAFE0057	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/15/59-04/30/59	0	2	
HAFE0058	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/23/59-04/29/59	0	2	
HAFE0061	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/03/88-08/03/88	0	1	
HAFE0062	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/24/74-08/03/88	13	2	
HAFE0073	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/24/74-08/25/88	13	2	
HAFE0077	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/25/74-09/25/74	0	1	
HAFE0084	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/02/88-08/02/88	0	1	
HAFE0087	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/24/74-09/24/74	0	1	
HAFE0091	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/27/88-07/27/88	0	1	
HAFE0093	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/25/74-09/25/74	0	1	
HAFE0094	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/08/70-05/08/70	0	1	
HAFE0101	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/25/88-08/25/88	0	1	
HAFE0109	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	01/26/45-05/03/57	12	2	
HAFE0110	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/19/77-04/19/77	0	1	
HAFE0119	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/25/88-08/25/88	0	1	
HAFE0069	No	84007	ANATOMY ALPHA CODE	09/01/78-10/28/93	15	14	
HAFE0078	No	84007	ANATOMY ALPHA CODE	10/09/80-10/27/83	3	11	
HAFE0083	No	84007	ANATOMY ALPHA CODE	10/01/80-10/01/82	2	8	
HAFE0100	No	84007	ANATOMY ALPHA CODE	10/15/81-10/28/93	12	19	
HAFE0069	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	09/01/78-10/28/93	15	14	
HAFE0100	No	84008	LIFE STYLE/HABITAT OF THEINDIVIDUALS IN THE SAMPLE	10/15/81-10/28/93	12	19	
HAFE0050	Yes	84030	CLOUD AMOUNT ALPHA WEATHER CODES	03/11/96-06/17/96	0	2	
HAFE0052	Yes	84030	CLOUD AMOUNT ALPHA WEATHER CODES	01/13/92-06/13/95	3	40	
HAFE0066	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0067	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0070	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	10	
HAFE0076	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/03/88	0	11	
HAFE0089	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0092	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/07/87-09/07/88	0	10	
HAFE0095	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0099	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	

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

Station/Parameter Period of Record Tabulation
From 05/16/33 To 08/13/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
HAFE0106	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0118	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0050	Yes	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	06/17/96-06/17/96	0	1	
HAFE0052	Yes	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	04/07/92-04/18/95	3	22	
HAFE0066	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0067	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0070	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	4	
HAFE0076	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0089	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0092	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	02/09/88-07/06/88	0	2	
HAFE0095	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0099	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0106	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0118	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	10/06/87-07/06/88	0	3	
HAFE0050	Yes	84032	STREAM CONDITION ALPHA WEATHER CODES	03/11/96-06/17/96	0	2	
HAFE0052	Yes	84032	STREAM CONDITION ALPHA WEATHER CODES	01/13/92-06/13/95	3	39	
HAFE0066	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	11	
HAFE0067	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	10	
HAFE0070	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	10	
HAFE0076	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/03/88	0	11	
HAFE0089	No	84032	STREAM CONDITION ALPHA WEATHER CODES	11/16/87-09/07/88	0	10	
HAFE0092	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/07/87-07/06/88	0	8	
HAFE0095	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	10	
HAFE0099	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	9	
HAFE0106	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	10	
HAFE0118	No	84032	STREAM CONDITION ALPHA WEATHER CODES	10/06/87-09/07/88	0	10	
HAFE0052	Yes	85000	STREAM MILE, ACTUAL MILES	09/18/46-06/13/95	48	82	
HAFE0069	No	85000	STREAM MILE, ACTUAL MILES	09/18/46-10/28/93	47	52	
HAFE0076	No	85000	STREAM MILE, ACTUAL MILES	08/04/54-08/04/54	0	3	
HAFE0095	No	85000	STREAM MILE, ACTUAL MILES	08/04/54-08/04/54	0	1	
HAFE0097	No	85000	STREAM MILE, ACTUAL MILES	10/10/49-08/04/54	4	4	
HAFE0100	No	85000	STREAM MILE, ACTUAL MILES	09/18/46-10/28/93	47	23	

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

Station-By-Station Results

Station Inventory for Station: HAFE0001

NPS Station ID: HAFE0001
LAT/LON: 39.312781/ -77.618059
Agency: 112WRD
Date Created: 01/23/82
Location: FR Fb 12
FIPS State/County: 24021 MARYLAND/FREDERICK
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 391846077370501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070008
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070008001405.69
RF3 Mile Point: 5.94
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/81-04/21/93	7	12.4	12.729	14.9	12.1	0.962	0.981	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/83-04/21/93	6	21.4	20.017	28.	8.1	50.578	7.112	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/16/83-04/27/89	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/21/81-08/21/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	04/16/91-04/21/93	3	5.	3.667	5.	1.	5.333	2.309	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/81-04/21/93	7	346.	339.857	385.	258.	1616.476	40.205	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/12/92-04/21/93	2	9.8	9.8	10.	9.6	0.08	0.283	**	**	**	**
00400	PH (STANDARD UNITS)	08/21/81-04/21/93	7	6.5	6.499	6.9	6.3	0.041	0.204	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/21/81-04/21/93	7	6.5	6.464	6.9	6.3	0.043	0.207	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/81-04/21/93	7	0.316	0.344	0.501	0.126	0.017	0.13	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/21/81-04/21/93	7	6.8	6.771	7.1	6.5	0.059	0.243	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/21/81-04/21/93	7	6.8	6.716	7.1	6.5	0.063	0.25	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/81-04/21/93	7	0.158	0.192	0.316	0.079	0.01	0.101	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/83-05/12/92	2	22.	22.	44.	0.	968.	31.113	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	04/27/89-04/21/93	5	32.5	33.92	42.6	29.	26.857	5.182	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/12/92-05/12/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00449	BICARBONATE,INCREMENTAL TITRATION,(HCO3) LAB MG/L	04/21/93-04/21/93	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	04/27/89-05/12/92	4	40.5	42.85	52.	38.4	38.73	6.223	**	**	**	**
00602	NITROGEN, DISSOLVED (MG/L AS N)	06/16/83-06/16/83	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/21/93-04/21/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/16/91-05/12/92	2 ##	0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/21/93-04/21/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/16/91-05/12/92	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/16/83-06/16/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/27/89-05/12/92	4	4.6	4.5	4.9	3.9	0.207	0.455	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/16/83-04/21/93	2	5.3	5.3	6.3	4.3	2.	1.414	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/27/89-04/21/93	5	0.09	0.084	0.1	0.06	0.	0.015	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/16/83-04/21/93	2	0.09	0.09	0.12	0.06	0.002	0.042	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/16/83-04/21/93	2	0.095	0.095	0.12	0.07	0.001	0.035	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/89-04/21/93	5	1.2	1.12	1.3	0.9	0.027	0.164	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/21/81-08/21/81	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/21/81-04/21/93	7	31.	30.857	33.	30.	1.143	1.069	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/21/81-04/21/93	7	11.	11.143	12.	10.	0.476	0.69	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/81-04/21/93	7	16.	15.857	18.	14.	1.81	1.345	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/21/81-08/21/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/21/81-08/21/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/21/81-04/21/93	7	1.3	1.271	1.4	1.1	0.012	0.111	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/21/81-04/21/93	7	41.	38.571	43.	30.	27.952	5.287	**	**	**	**

** - Less 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: HAFE0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	08/21/81-04/21/93	7	45.	45.857	58.	38.	64.81	8.05	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/21/81-04/21/93	7 ##	0.05	0.064	0.1	0.05	0.001	0.024	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/21/81-04/21/93	7	21.	21.857	25.	20.	3.476	1.864	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/27/89-04/27/89	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/27/89-04/27/89	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	04/27/89-04/17/90	2	40.	40.	50.	30.	200.	14.142	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/21/81-08/21/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/21/81-08/21/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/27/89-04/27/89	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/21/81-08/21/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	08/21/81-08/21/81	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/21/81-04/21/93	6	35.	49.167	160.	5.	3124.167	55.894	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/21/81-04/21/93	7	6.	6.	10.	4.	4.333	2.082	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/27/89-04/16/91	2 ##	1.75	1.75	2.5	1.	1.125	1.061	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/21/81-04/16/91	2	5.	5.	8.	2.	18.	4.243	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/21/81-04/21/93	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/81-04/21/93	7 ##	0.5	1.143	5.	0.5	2.893	1.701	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/27/89-04/27/89	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/21/81-08/21/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/21/81-08/21/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/27/89-04/27/89	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/21/81-04/17/90	3	10.	15.	30.	5.	175.	13.229	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/21/81-04/17/90	2 ##	102.5	102.5	200.	5.	19012.5	137.886	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/81-04/27/89	3 ##	50.	85.	200.	5.	10425.	102.103	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/21/81-08/21/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/27/89-04/27/89	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34561	1,3-DICHLOROPROPENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34668	DICHLORODIFUOROMETHANE TOTWUG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	04/27/89-04/27/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	04/21/93-04/21/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	04/21/93-04/21/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	04/21/93-04/21/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/21/81-04/21/93	6	228.	226.	250.	200.	321.6	17.933	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/21/81-08/21/81	1	180.	180.	180.	180.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/16/91-05/12/92	2	0.08	0.08	0.1	0.06	0.001	0.028	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/27/89-04/27/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/21/81-08/21/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
77128	STYRENE WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	04/27/89-04/27/89	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/21/81-08/21/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	04/21/93-04/21/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	1	0	0.00				6	0	0.00			
		Other-Lo Lim.	6.5	7	4	0.57	1	1	1.00				6	3	0.50			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	1	0	0.00				6	0	0.00			
		Other-Lo Lim.	6.5	7	2	0.29	1	0	0.00				6	2	0.33			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00							4	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	1	0	0.00				6	0	0.00			
		Drinking Water	250.	7	0	0.00	1	0	0.00				6	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	1	0	0.00				6	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	7	0	0.00	1	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.	1	0	0.00							1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00							2	0	0.00			
		Drinking Water	15.	2	0	0.00							2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									

& - 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: HAFE0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00				2	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			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00							1	0	0.00			
		Drinking Water	1000.	1	0	0.00							1	0	0.00			
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00							1	0	0.00			
		Drinking Water	700.	1	0	0.00							1	0	0.00			
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00							1	0	0.00			
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00							1	0	0.00			
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00							1	0	0.00			
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00							1	0	0.00			
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00							1	0	0.00			
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00							1	0	0.00			
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00							1	0	0.00			
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00							1	0	0.00			
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00							1	0	0.00			
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	1	0	0.00							1	0	0.00			
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	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			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
77128	STYRENE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
77651	1,2-DIBROMOETHANE, WHOLE WATER	Drinking Water	0.05	0 &	0	0.00												

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

Station Inventory for Station: HAFE0002

NPS Station ID: HAFE0002
LAT/LON: 39.309448/ -77.631115
Agency: 1112A9WQ
Date Created: / /
Location: OTLM:3C R9V 1:32R:NSW9CK 1033
FIPS State/County: 24021 MARYLAND/FREDERICK
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): UP-POT-103 /POTOMAC 103 /103 /POT 103
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 999
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC P
ECO Region:
RF1 Index: 02070008017
RF1 Mile Point: 3.690
Distance from RF1: 14.10
On/Off RF1: OFF
RF3 Index: 02070008004200.65
RF3 Mile Point: 7.98
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/13/73-04/17/73	2	7.25	7.25	11.5	3.	36.125	6.01	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/20/72-04/17/73	3	11.2	10.9	13.3	8.2	6.57	2.563	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/20/72-04/17/73	3	0.065	0.085	0.125	0.065	0.001	0.035	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/20/72-04/17/73	3	0.612	0.628	0.856	0.415	0.049	0.221	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/20/72-04/17/73	3	1.12	1.157	1.26	1.09	0.008	0.091	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/20/72-04/17/73	3	0.09	0.077	0.1	0.04	0.001	0.032	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/20/72-02/13/73	2	4.15	4.15	4.9	3.4	1.125	1.061	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	09/20/72-02/13/73	2	27.75	27.75	33.3	22.2	61.605	7.849	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/13/73-02/13/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/20/72-02/13/73	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/20/72-04/17/73	3	0.13	0.16	0.25	0.1	0.006	0.079	**	**	**	**

** - Less 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: HAFE0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	2	0	0.00	1	0	0.00	1	0	0.00						

& - 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: HAFE0003

NPS Station ID: HAFE0003
LAT/LON: 39.308893/ -77.632587
Agency: 21MDEXP
Date Created: 10/11/80
Location: MD 17 BRIDGE
FIPS State/County: 24021 MARYLAND/FREDERICK
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POT1661
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070008017
RF1 Mile Point: 3.690
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070008001701.05
RF3 Mile Point: 1.16
Distance from RF3: 0.02
On/Off RF3:
Description:
02-14-03-01 POTOMAC RIVER FREDERICK CO. AREA DRAINAGE POTOMAC RIVER RIVER MILE IS 166.10
RECEIVING TRIBUTARY IS CHESAPEAKE BAY MD 17 BRIDGE

Parameter Inventory for Station: HAFE0003

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: HAFE0004

NPS Station ID: HAFE0004 LAT/LON: 39.306671/ -77.651392 Agency: 21VASWCB Date Created: / /
Location: RT. 674 BRIDGE NEAR MOUTH OF CREEK FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1ADUT000.62 /VA1A10-X0036/VA1A3X0036
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070008 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH-ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070008017 RF1 Mile Point: 4.350 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 02070008001800.00 RF3 Mile Point: 0.16 Distance from RF3: 0.03 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN VIRGINIA
RIVER: DUTCHMAN CREEK SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPER'S FERRY, VA-MD-W VA

Parameter Inventory for Station: HAFE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/73-05/23/79	40	13.85	12.803	25.6	0.	67.014	8.186	1.17	5.725	19.725	23.3
00300	OXYGEN, DISSOLVED MG/L	04/12/73-05/23/79	40	10.5	10.798	14.3	8.	3.679	1.918	8.61	9.2	12.35	13.8
00310	BOD, 5 DAY, 20 DEG C MG/L	03/03/76-03/03/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/12/73-05/23/79	40	7.6	7.733	8.8	6.8	0.281	0.53	7.	7.4	8.	8.59
00400	CONVERTED PH (STANDARD UNITS)	04/12/73-05/23/79	40	7.6	7.477	8.8	6.8	0.348	0.59	7.	7.4	8.	8.59
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/73-05/23/79	40	0.025	0.033	0.158	0.002	0.001	0.035	0.003	0.01	0.04	0.1
00403	PH, LAB, STANDARD UNITS SU	12/19/73-12/19/73	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/19/73-12/19/73	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/19/73-12/19/73	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/19/73-12/19/73	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/12/73-05/23/79	41 ##	0.05	0.077	0.5	0.05	0.008	0.09	0.05	0.05	0.05	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/12/73-05/23/79	41 ##	0.005	0.01	0.06	0.005	0.	0.012	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/73-09/29/76	27	1.5	1.458	2.5	0.5	0.261	0.511	0.698	1.189	1.699	2.219
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/73-05/23/79	41	0.3	0.322	1.399	0.05	0.057	0.239	0.1	0.2	0.4	0.58
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/76-05/23/79	14	1.35	1.4	2.6	0.6	0.392	0.626	0.65	0.8	1.925	2.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/21/79-03/21/79	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/17/73-11/28/78	3 ##	1.	2.	4.	1.	3.	1.732	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/17/73-11/28/78	4 ##	5.	3.875	5.	0.5	5.063	2.25	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/15/73-11/28/78	7 ##	5.	6.429	10.	5.	5.952	2.44	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/15/73-11/28/78	7 ##	5.	5.714	10.	5.	3.571	1.89	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/17/73-11/28/78	6 ##	5.	8.	27.	1.	89.2	9.445	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/73-11/28/78	6 ##	50.	42.5	50.	5.	337.5	18.371	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/15/73-11/28/78	7 ##	5.	15.	60.	5.	425.	20.616	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	39	100.	903.846	6000.	50.	3283340.081	1811.999	50.	50.	400.	5900.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	39	2.	2.322	3.778	1.699	0.487	0.698	1.699	1.699	2.602	3.771
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			210.066								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/12/73-05/23/79	41 ##	0.05	0.074	0.4	0.05	0.004	0.066	0.05	0.05	0.05	0.18
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/73-05/23/79	41	0.05	0.058	0.21	0.005	0.002	0.048	0.012	0.03	0.055	0.116
71900	MERCURY, TOTAL (UG/L AS HG)	05/15/73-11/28/78	7 ##	0.25	0.271	0.5	0.15	0.012	0.107	**	**	**	**

** - Less 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: HAFE0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	40	0	0.00	6	0	0.00	15	0	0.00	19	0	0.00			
00400	PH	Other-Hi Lim.	9.	40	0	0.00	6	0	0.00	14	0	0.00	20	0	0.00			
		Other-Lo Lim.	6.5	40	0	0.00	6	0	0.00	14	0	0.00	20	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	41	0	0.00	6	0	0.00	15	0	0.00	20	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	27	0	0.00	5	0	0.00	10	0	0.00	12	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	1	0	0.00	5	0	0.00	8	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1 &	0	0.00	1	0	0.00									
		Drinking Water	5.	1 &	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	1300.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	1	0	0.00	2	0	0.00	3	0	0.00			
		Drinking Water	15.	6	1	0.17	1	0	0.00	2	0	0.00	3	1	0.33			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	6	0	0.00	1	0	0.00	2	0	0.00	3	0	0.00			
		Drinking Water	100.	6	0	0.00	1	0	0.00	2	0	0.00	3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	5000.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	39	18	0.46	5	3	0.60	15	5	0.33	19	10	0.53			
71900	MERCURY, TOTAL	Fresh Acute	2.4	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	2.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			

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

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/73-05/23/79	6	16.15	14.383	20.	1.8	43.662	6.608	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/12/73-05/23/79	6	9.3	9.55	11.2	8.2	1.019	1.009	**	**	**	**
00400	PH (STANDARD UNITS)	04/12/73-05/23/79	6	7.8	7.65	7.8	7.2	0.063	0.251	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/12/73-05/23/79	6	7.8	7.579	7.8	7.2	0.069	0.263	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/73-05/23/79	6	0.016	0.026	0.063	0.016	0.	0.019	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/12/73-05/23/79	6 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/12/73-05/23/79	6 ##	0.005	0.008	0.02	0.005	0.	0.006	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/73-05/23/79	6	0.4	0.433	0.6	0.3	0.011	0.103	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	5	300.	1630.	6000.	50.	6427000.	2535.153	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	5	2.477	2.637	3.778	1.699	0.741	0.861	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			433.449								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/12/73-05/23/79	6 ##	0.05	0.083	0.2	0.05	0.004	0.061	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/73-05/23/79	6	0.05	0.072	0.2	0.01	0.005	0.07	**	**	**	**

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

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/73-05/23/79	15	4.	5.26	14.4	0.	19.045	4.364	0.24	1.1	7.8	12.42
00300	OXYGEN, DISSOLVED MG/L	04/12/73-05/23/79	15	13.	12.633	14.3	9.8	2.052	1.433	10.16	12.	13.8	14.12
00400	PH (STANDARD UNITS)	04/12/73-05/23/79	14	7.55	7.7	8.8	6.8	0.414	0.643	6.9	7.225	8.275	8.75
00400	CONVERTED PH (STANDARD UNITS)	04/12/73-05/23/79	14	7.547	7.373	8.8	6.8	0.529	0.727	6.9	7.225	8.275	8.75
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/73-05/23/79	14	0.028	0.042	0.158	0.002	0.002	0.046	0.002	0.006	0.063	0.129
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/12/73-05/23/79	15 ##	0.05	0.087	0.5	0.05	0.013	0.116	0.05	0.05	0.05	0.26
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/12/73-05/23/79	15 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/73-05/23/79	15	0.2	0.273	0.8	0.05	0.055	0.234	0.05	0.1	0.4	0.74
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	15 ##	50.	526.667	6000.	50.	2307809.524	1519.148	50.	50.	300.	2640.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	15 ##	1.699	2.094	3.778	1.699	0.343	0.586	1.699	1.699	2.477	3.072
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			124.038								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/12/73-05/23/79	15 ##	0.05	0.097	0.4	0.05	0.01	0.099	0.05	0.05	0.1	0.28
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/73-05/23/79	15	0.05	0.064	0.21	0.005	0.004	0.061	0.02	0.03	0.05	0.204

** - Less 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: 3/21 to 7/31 - Station HAFE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/73-05/23/79	19	18.9	18.258	25.6	5.6	38.599	6.213	6.7	15.6	23.3	25.
00300	OXYGEN, DISSOLVED MG/L	04/12/73-05/23/79	19	9.2	9.742	12.4	8.	1.589	1.261	8.4	8.8	11.	11.4
00400	PH (STANDARD UNITS)	04/12/73-05/23/79	20	7.65	7.78	8.8	7.	0.271	0.521	7.01	7.425	8.	8.59
00400	CONVERTED PH (STANDARD UNITS)	04/12/73-05/23/79	20	7.647	7.535	8.8	7.	0.334	0.578	7.01	7.425	8.	8.59
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/73-05/23/79	20	0.023	0.029	0.1	0.002	0.001	0.03	0.003	0.01	0.038	0.098
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/12/73-05/23/79	20 ##	0.05	0.078	0.4	0.05	0.007	0.083	0.05	0.05	0.05	0.19
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/12/73-05/23/79	20 ##	0.005	0.013	0.06	0.005	0.	0.016	0.005	0.005	0.018	0.048
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/73-05/23/79	20	0.3	0.325	1.399	0.1	0.071	0.267	0.11	0.2	0.3	0.4
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	19	200.	1010.526	6000.	50.	3431271.93	1852.369	50.	50.	800.	5900.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/73-05/23/79	19	2.301	2.42	3.778	1.699	0.515	0.718	1.699	1.699	2.903	3.771
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			263.149								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	04/12/73-05/23/79	20 ##	0.05	0.055	0.1	0.05	0.	0.015	0.05	0.05	0.05	0.095
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/12/73-05/23/79	20 ##	0.05	0.05	0.12	0.005	0.001	0.026	0.011	0.035	0.058	0.097

** - Less 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: HAFE0005

NPS Station ID: HAFE0005 LAT/LON: 39.288337/ -77.653892 Agency: 21VASWCB Date Created: 01/13/96
Location: RT. 674 FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1AXCO000.39
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070008 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070008 RF1 Mile Point: 0.000 Distance from RF1: 12.80 On/Off RF1:
RF3 Index: 02070004010303.75 RF3 Mile Point: 5.94 Distance from RF3: 0.02 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: TRIB. DUTCHMAN CREEK SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPERS FERRY, VA

Parameter Inventory for Station: HAFE0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/79-06/04/87	2	14.	14.	18.2	9.8	35.28	5.94	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/28/79-06/04/87	2	10.15	10.15	11.4	8.9	3.125	1.768	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	03/28/79-06/04/87	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/28/79-06/04/87	2	7.35	7.35	7.4	7.3	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/28/79-06/04/87	2	7.347	7.347	7.4	7.3	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/79-06/04/87	2	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/28/79-06/04/87	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/28/79-06/04/87	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/79-06/04/87	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/28/79-06/04/87	2	36.	36.	39.	33.	18.	4.243	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	03/28/79-03/28/79	1	135.	135.	135.	135.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/28/79-03/28/79	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	03/28/79-03/28/79	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/28/79-06/04/87	2	5.	5.	6.	4.	2.	1.414	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	03/28/79-06/04/87	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	03/28/79-06/04/87	2 ##	2.25	2.25	2.5	2.	0.125	0.354	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/28/79-06/04/87	2 ##	0.225	0.225	0.4	0.05	0.061	0.247	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/28/79-06/04/87	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/28/79-06/04/87	2	1.35	1.35	1.4	1.3	0.005	0.071	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/28/79-06/04/87	2	0.45	0.45	0.6	0.3	0.045	0.212	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/79-06/04/87	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/28/79-06/04/87	2	0.105	0.105	0.18	0.03	0.011	0.106	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/28/79-06/04/87	2	6.	6.	8.	4.	8.	2.828	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/87-06/04/87	1	46.	46.	46.	46.	0.	0.	**	**	**	**
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	03/28/79-06/04/87	2 ##	8025.	8025.	16000.	50.	127201250.	11278.353	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	03/28/79-06/04/87	2 ##	2.952	2.952	4.204	1.699	3.138	1.771	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			894.427								

** - Less 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: HAFE0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
00400	PH	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			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00							2	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	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: HAFE0006

NPS Station ID: HAFE0006
LAT/LON: 39.347170/ -77.658031
Agency: 21MDEXP
Date Created: 10/11/80
Location: PROJECT CLEARWATER-ROELKEY FARM
FIPS State/County: 24021 MARYLAND/FREDERICK
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): ZCV0022
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070008
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070008059800.00
RF3 Mile Point: 0.35
Distance from RF3: 0.09
On/Off RF3:
Description:
02-14-03-01 POTOMAC RIVER FREDERICK CO. AREA DRAINAGE UNNAMED TRIBUTARY RIVER MILE IS .22
RECEIVING TRIBUTARY IS POTOMAC RIVER PROJECT CLEARWATER-ROELKEY FARM

Parameter Inventory for Station: HAFE0006

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: HAFE0007

NPS Station ID: HAFE0007
LAT/LON: 39.286948/ -77.660837
Agency: 21VASWCB
Date Created: 04/10/93
Location: ROUTE 673 (LOUDOUN CO)
FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1ADUT002.72
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 0
Aquifer:
Major Basin: 02-NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH
ECO Region:
RF1 Index: 02070008
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: DUTCHMAN CREEK SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPERS FERRY, VA - MD - W.VA

Parameter Inventory for Station: HAFE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/31/75-06/04/87	3	10.8	12.733	19.4	8.	35.293	5.941	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/31/75-03/28/79	2	10.2	10.2	11.8	8.6	5.12	2.263	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/04/87-06/04/87	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/31/75-06/04/87	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	07/31/75-06/04/87	2	5.5	5.5	7.	4.	4.5	2.121	**	**	**	**
00400	PH (STANDARD UNITS)	07/31/75-06/04/87	3	7.5	7.517	7.75	7.3	0.051	0.225	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/31/75-06/04/87	3	7.5	7.479	7.75	7.3	0.053	0.23	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/75-06/04/87	3	0.032	0.033	0.05	0.018	0.	0.016	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/31/75-06/04/87	3	7.1	7.067	7.2	6.9	0.023	0.153	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/31/75-06/04/87	3	7.1	7.048	7.2	6.9	0.024	0.154	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/75-06/04/87	3	0.079	0.089	0.126	0.063	0.001	0.033	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/31/75-06/04/87	3	29.	27.667	34.	20.	50.333	7.095	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	07/31/75-03/28/79	2	125.	125.	170.	80.	4050.	63.64	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/31/75-03/28/79	2	26.	26.	29.	23.	18.	4.243	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	07/31/75-03/28/79	2	99.	99.	141.	57.	3528.	59.397	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/75-06/04/87	3	3.	4.5	8.	2.5	9.25	3.041	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/31/75-06/04/87	3	2.	1.833	2.5	1.	0.583	0.764	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/31/75-06/04/87	3	2.5	3.5	6.	2.	4.75	2.179	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/31/75-06/04/87	3 ##	0.05	0.2	0.5	0.05	0.068	0.26	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/31/75-06/04/87	3	0.01	0.012	0.02	0.005	0.	0.008	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/31/75-06/04/87	3	1.58	1.493	1.6	1.3	0.028	0.168	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/31/75-06/04/87	3	0.4	0.367	0.5	0.2	0.023	0.153	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/31/75-06/04/87	3 ##	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/31/75-06/04/87	3	0.02	0.015	0.02	0.005	0.	0.009	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/31/75-06/04/87	3	3.	3.	4.	2.	1.	1.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/28/79-06/04/87	2	36.	36.	38.	34.	8.	2.828	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/31/75-07/31/75	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/04/87-06/04/87	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/04/87-06/04/87	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/04/87-06/04/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/04/87-06/04/87	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/04/87-06/04/87	1	570.	570.	570.	570.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/04/87-06/04/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	06/04/87-06/04/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/04/87-06/04/87	1	110.	110.	110.	110.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/31/75-06/04/87	3	500.	400.	600.	100.	70000.	264.575	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/31/75-06/04/87	3	2.699	2.492	2.778	2.	0.183	0.428	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			310.723								
71900	MERCURY, TOTAL (UG/L AS HG)	06/04/87-06/04/87	1 ##	0.15	0.15	0.15	0.15	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: HAFE0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00							3	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00							3	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00							3	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00							3	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	3	0	0.00							3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	3	0	0.00							3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	2	0.67							3	2	0.67			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: HAFE0008

NPS Station ID: HAFE0008 LAT/LON: 39.498892/ -77.677143 Agency: 21MDEXP Date Created: 10/11/80
Location: DOWNSTREAM CROSSING OF MD.34 BETWEEN KEEDYSVILLE FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): UAI0018
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 10.90 On/Off RF1:
RF3 Index: 02070004112300.00 RF3 Mile Point: 0.00 Distance from RF3: 0.03 On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE UNNAMED TRIBUTARY RIVER MILE IS 1.60
RECEIVING TRIBUTARY IS LITTLE ANTIETAM CREEK DOWNSTREAM CROSSING OF MD.34 BETWEEN KEEDYSVILLE AND BOONSBORO

Parameter Inventory for Station: HAFE0008

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: HAFE0009

NPS Station ID: HAFE0009
LAT/LON: 39.488198/ -77.678809
Agency: 21MDEXP
Date Created: 10/11/80
Location: HICKS BRIDGE ON KEEDYSVILLE ROAD
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): ANT0084
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070004000204.49
RF3 Mile Point: 4.49
Distance from RF3: 0.01
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE ANTIETAM CREEK RIVER MILE IS 8.40
RECEIVING TRIBUTARY IS POTOMAC RIVER HICKS BRIDGE ON KEEDYSVILLE ROAD

Parameter Inventory for Station: HAFE0009

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: HAFE0010

NPS Station ID: HAFE0010
LAT/LON: 39.329170/ -77.684170
Agency: 112WRD
Date Created: 01/25/86
Location: ISRAEL C AT WEVERTON, MD
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01636730
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070008
RF1 Mile Point: 0.000
Distance from RF1: 7.00
On/Off RF1:
RF3 Index: 02070004003700.61
RF3 Mile Point: 1.25
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/85-04/15/86	2	12.9	12.9	15.9	9.9	18.	4.243	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/25/85-04/15/86	2	13.35	13.35	16.5	10.2	19.845	4.455	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/85-04/15/86	2	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/25/85-04/15/86	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/85-04/15/86	2	166.	166.	203.	129.	2738.	52.326	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/15/86-04/15/86	1	11.7	11.7	11.7	11.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/85-04/15/86	2	8.1	8.1	8.3	7.9	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/85-04/15/86	2	8.055	8.055	8.3	7.9	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/85-04/15/86	2	0.009	0.009	0.013	0.005	0.	0.005	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/25/85-04/15/86	2	8.05	8.05	8.3	7.8	0.125	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/25/85-04/15/86	2	7.982	7.982	8.3	7.8	0.134	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/85-04/15/86	2	0.01	0.01	0.016	0.005	0.	0.008	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/85-04/15/86	2	1.1	1.1	1.5	0.7	0.32	0.566	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/25/85-04/15/86	2	0.045	0.045	0.07	0.02	0.001	0.035	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/85-04/15/86	2	16.	16.	20.	12.	32.	5.657	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/85-04/15/86	2	5.5	5.5	6.5	4.5	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/85-04/15/86	2	6.7	6.7	7.5	5.9	1.28	1.131	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/85-04/15/86	2	1.75	1.75	2.2	1.3	0.405	0.636	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/85-04/15/86	2	12.	12.	15.	9.	18.	4.243	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/85-04/15/86	2	12.	12.	12.	12.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/85-04/15/86	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/85-04/15/86	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/25/85-09/25/85	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/25/85-04/15/86	2	105.	105.	110.	100.	50.	7.071	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/25/85-04/15/86	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/25/85-09/25/85	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/25/85-04/15/86	2	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/25/85-04/15/86	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/85-04/15/86	2	108.	108.	125.	91.	578.	24.042	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/25/85-09/25/85	1	0.21	0.21	0.21	0.21	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: HAFE0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

& - 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: HAFE0011

NPS Station ID: HAFE0011 LAT/LON: 39.476587/ -77.688977 Agency: 21MDEXP Date Created: 10/11/80
Location: DOGSTREET ROAD BRIDGE, 1 MILE SE OF KEEDYSVILLE FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LAS0028
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 8.20 On/Off RF1:
RF3 Index: 02070004003700.61 RF3 Mile Point: 1.52 Distance from RF3: 0.02 On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE LITTLE ANTIETAM CREEK RIVER MILE IS 2.80
RECEIVING TRIBUTARY IS ANTIETAM CREEK DOGSTREET ROAD BRIDGE, 1 MILE SE OF KEEDYSVILLE

Parameter Inventory for Station: HAFE0011

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: HAFE0012

NPS Station ID: HAFE0012 LAT/LON: 39.488116/ -77.691921 Agency: 21MDEXP Date Created: 10/11/80
Location: CEMENT BRIDGE ON ROAD FROM KEEDYSVILLE TO MT. HE FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): UAI0002
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 02070004002300.00 RF3 Mile Point: 1.68 Distance from RF3: 0.03 On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE UNNAMED TRIBUTARY RIVER MILE IS .20
RECEIVING TRIBUTARY IS LITTLE ANTIETAM CREEK CEMENT BRIDGE ON ROAD FROM KEEDYSVILLE TO MT. HEBRON CEM.

Parameter Inventory for Station: HAFE0012

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: HAFE0013

NPS Station ID: HAFE0013
LAT/LON: 39.487504/ -77.692505
Agency: 112WRD
Date Created: 12/02/81
Location: WA DI 6
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392915077413301
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 22.20
On/Off RF1:
RF3 Index: 02070004112701.04
RF3 Mile Point: 1.33
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/25/81-08/25/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/25/81-08/25/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/25/81-08/25/81	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/25/81-08/25/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/25/81-08/25/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/25/81-08/25/81	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/25/81-08/25/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/25/81-08/25/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/25/81-08/25/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/25/81-08/25/81	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/25/81-08/25/81	1	84.	84.	84.	84.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/25/81-08/25/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/25/81-08/25/81	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/25/81-08/25/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/25/81-08/25/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/25/81-08/25/81	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/25/81-08/25/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/25/81-08/25/81	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/25/81-08/25/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/25/81-08/25/81	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/25/81-08/25/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/25/81-08/25/81	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/25/81-08/25/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/25/81-08/25/81	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/25/81-08/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/25/81-08/25/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/25/81-08/25/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/25/81-08/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/25/81-08/25/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/25/81-08/25/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/25/81-08/25/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/25/81-08/25/81	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/25/81-08/25/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/25/81-08/25/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/25/81-08/25/81	1	310.	310.	310.	310.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/25/81-08/25/81	1	273.	273.	273.	273.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/25/81-08/25/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/25/81-08/25/81	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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									
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									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HAFE0014

NPS Station ID: HAFE0014
LAT/LON: 39.486699/ -77.699003
Agency: 21MDEXP
Date Created: 10/11/80
Location: 100 YARDS ABOVE MD.34 IN KEEDYSVILLE
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LAS0015
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070004003700.61
RF3 Mile Point: 1.37
Distance from RF3: 0.00
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE LITTLE ANTIETAM CREEK RIVER MILE IS 1.50
RECEIVING TRIBUTARY IS ANTIETAM CREEK 100 YARDS ABOVE MD.34 IN KEEDYSVILLE

Parameter Inventory for Station: HAFE0014

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: HAFE0015

NPS Station ID: HAFE0015
LAT/LON: 39.487226/ -77.700781
Agency: 21MDEXP
Date Created: 10/11/80
Location: DAM BELOW MD.34 AT RALPH TAYLOR'S
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LAS0014
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 6.710
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004003700.61
RF3 Mile Point: 1.13
Distance from RF3: 0.04
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE LITTLE ANTIETAM CREEK RIVER MILE IS 1.40
RECEIVING TRIBUTARY IS ANTIETAM CREEK DAM BELOW MD.34 AT RALPH TAYLOR'S

Parameter Inventory for Station: HAFE0015

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: HAFE0016

NPS Station ID: HAFE0016
LAT/LON: 39.486115/ -77.701392
Agency: 112WRD
Date Created: 01/25/86
Location: L ANTIETAM C AT KEEDYSVILLE, MD
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01619480
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 3.20
On/Off RF1:
RF3 Index: 02070004003900.00
RF3 Mile Point: 0.25
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/19/85-04/14/86	2	14.85	14.85	15.4	14.3	0.605	0.778	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/19/85-04/14/86	2	24.2	24.2	30.	18.4	67.28	8.202	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/19/85-04/14/86	2	15.5	15.5	25.	6.	180.5	13.435	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	09/19/85-04/14/86	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/19/85-04/14/86	2	423.	423.	482.	364.	6962.	83.439	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/14/86-04/14/86	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/19/85-04/14/86	2	8.	8.	8.3	7.7	0.18	0.424	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/19/85-04/14/86	2	7.904	7.904	8.3	7.7	0.199	0.446	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/19/85-04/14/86	2	0.012	0.012	0.02	0.005	0.	0.011	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/19/85-04/14/86	2	7.8	7.8	8.2	7.4	0.32	0.566	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/19/85-04/14/86	2	7.637	7.637	8.2	7.4	0.373	0.611	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/19/85-04/14/86	2	0.023	0.023	0.04	0.006	0.001	0.024	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/19/85-09/19/85	1	273.	273.	273.	273.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/19/85-04/14/86	2	3.05	3.05	3.1	3.	0.005	0.071	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/19/85-04/14/86	2	0.095	0.095	0.12	0.07	0.001	0.035	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/19/85-04/14/86	2	56.5	56.5	61.	52.	40.5	6.364	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/19/85-04/14/86	2	12.5	12.5	14.	11.	4.5	2.121	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/19/85-04/14/86	2	6.95	6.95	7.5	6.4	0.605	0.778	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/19/85-04/14/86	2	2.6	2.6	2.8	2.4	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/19/85-04/14/86	2	12.	12.	15.	9.	18.	4.243	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/19/85-04/14/86	2	15.5	15.5	17.	14.	4.5	2.121	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/19/85-04/14/86	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/19/85-04/14/86	2	7.75	7.75	8.4	7.1	0.845	0.919	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/19/85-09/19/85	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/19/85-04/14/86	2	225.	225.	340.	110.	26450.	162.635	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/19/85-04/14/86	2	26.	26.	45.	7.	722.	26.87	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/19/85-09/19/85	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/19/85-04/14/86	2	25.	25.	30.	20.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/85-04/14/86	2	12.5	12.5	13.	12.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/19/85-04/14/86	2	241.	241.	274.	208.	2178.	46.669	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/19/85-09/19/85	1	0.37	0.37	0.37	0.37	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: HAFE0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

& - 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: HAFE0017

NPS Station ID: HAFE0017
LAT/LON: 39.483365/ -77.703226
Agency: 21MDEXP
Date Created: 10/11/80
Location: COFFMAN LANE BRIDGE
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): LAS0010
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 6.710
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004111400.00
RF3 Mile Point: 0.08
Distance from RF3: 0.01
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE LITTLE ANTIETAM CREEK RIVER MILE IS 1.00
RECEIVING TRIBUTARY IS ANTIETAM CREEK COFFMAN LANE BRIDGE

Parameter Inventory for Station: HAFE0017

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: HAFE0018

NPS Station ID: HAFE0018 LAT/LON: 39.482531/ -77.707115 Agency: 21MDEXP Date Created: 10/11/80
Location: 0.1 MILE OFF OF ROUTE 34 ON ROAD TO HICKS BRIDGE FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LAS0004
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004002 RF1 Mile Point: 6.710 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 02070004003800.31 RF3 Mile Point: 0.44 Distance from RF3: 0.03 On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE LITTLE ANTIETAM CREEK RIVER MILE IS .40
RECEIVING TRIBUTARY IS ANTIETAM CREEK 0.1 MILE OFF OF ROUTE 34 ON ROAD TO HICKS BRIDGE

Parameter Inventory for Station: HAFE0018

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: HAFE0019

NPS Station ID: HAFE0019 LAT/LON: 39.323337/ -77.708615 Agency: 21VASWCB Date Created: / /
Location: RT. 340 BRIDGE, VA- MD LINE FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1APOT170.40 /VA1A10UX0105/VA1A3X0105
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH-ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 02070008002402.23 RF3 Mile Point: 2.23 Distance from RF3: 0.10 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN VIRGINIA
RIVER: POTOMAC RIVER SECTION: 10U TOPO MAP #: 0005 TOPO MAP NAME: HARPER'S FERRY, VA - MD - W VA

Parameter Inventory for Station: HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	107	13.3	14.36	28.9	0.	82.002	9.055	2.16	6.7	23.	26.76
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/21/71-06/30/71	3	5.5	5.667	9.	2.5	10.583	3.253	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	107	10.5	10.739	16.1	0.	5.208	2.282	8.4	9.4	12.2	13.66
00310	BOD, 5 DAY, 20 DEG C MG/L	12/09/68-06/21/79	24	2.	2.471	5.	1.	1.433	1.197	1.	1.75	3.	4.5
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	107	8.7	8.536	9.5	6.7	0.438	0.662	7.5	8.	9.	9.3
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	107	8.7	7.979	9.5	6.7	0.75	0.866	7.5	8.	9.	9.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	107	0.002	0.01	0.2	0.	0.001	0.024	0.001	0.001	0.01	0.032
00403	PH, LAB, STANDARD UNITS SU	12/09/68-12/19/73	8	7.65	7.7	8.3	6.9	0.177	0.421	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/09/68-12/19/73	8	7.647	7.5	8.3	6.9	0.223	0.472	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/09/68-12/19/73	8	0.023	0.032	0.126	0.005	0.002	0.039	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/09/68-12/19/73	8	72.	71.	97.	37.	354.	18.815	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	12/09/68-06/21/79	21	206.	250.143	497.	22.	13633.129	116.761	149.8	178.5	345.5	428.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	12/09/68-06/21/79	21	55.	53.	102.	9.	504.	22.45	23.2	37.5	61.	95.2
00510	RESIDUE, TOTAL FIXED (MG/L)	12/09/68-06/21/79	21	167.	206.714	395.	108.	8927.614	94.486	110.6	131.5	285.	371.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/09/68-06/21/79	21	10.	45.214	340.	0.5	8219.889	90.664	0.5	1.	19.	229.2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	12/09/68-06/21/79	21	4.	8.262	44.	0.	158.965	12.608	0.1	0.75	7.5	34.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	12/09/68-06/21/79	21	7.	37.071	304.	0.5	6207.282	78.786	0.5	1.	15.	188.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	100 ##	0.05	0.081	0.3	0.005	0.004	0.06	0.05	0.05	0.1	0.199
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	99	0.01	0.011	0.05	0.005	0.	0.008	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	69	1.099	1.058	3.799	0.005	0.359	0.599	0.19	0.745	1.389	1.599
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	100	0.3	0.394	1.899	0.05	0.079	0.282	0.1	0.2	0.5	0.79
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/22/76-06/21/79	31	1.	0.961	2.2	0.025	0.303	0.551	0.072	0.55	1.4	1.6
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/16/78-06/21/79	15	8.	8.333	21.	2.	25.095	5.01	3.2	4.	9.	17.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/17/73-08/17/73	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/21/71-04/26/79	11 ##	1.	1.636	2.5	0.5	0.705	0.839	0.6	1.	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	04/21/71-04/26/79	12 ##	5.	4.208	5.	0.	3.43	1.852	0.15	5.	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/06/70-04/26/79	19 ##	5.	5.789	10.	5.	3.509	1.873	5.	5.	5.	10.
01042	COPPER, TOTAL (UG/L AS CU)	04/06/70-04/26/79	19 ##	5.	7.368	30.	0.	45.468	6.743	5.	5.	5.	20.
01045	IRON, TOTAL (UG/L AS FE)	11/17/70-04/26/79	4	200.	262.5	600.	50.	62291.667	249.583	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	11/17/70-04/26/79	16 ##	5.	5.781	20.	0.	20.299	4.505	1.05	3.5	6.75	13.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/06/70-04/26/79	4	45.	52.5	100.	20.	1558.333	39.476	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/10/73-04/26/79	10 ##	50.	41.	50.	5.	360.	18.974	5.	38.75	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)	04/06/70-04/26/79	19	20.	16.053	40.	5.	121.053	11.002	5.	5.	20.	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 time series plot

Parameter Inventory for Station: HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/18/68-05/12/78	13	4300.	4923.846	21000.	230.	34779525.641	5897.417	294.	680.	6950.	17000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/18/68-05/12/78	13	3.633	3.368	4.322	2.362	0.375	0.612	2.453	2.801	3.816	4.21
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2331.893								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	90 ##	50.	420.667	6200.	10.	1124844.494	1060.587	50.	50.	200.	1440.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	90 ##	1.699	2.02	3.792	1.	0.341	0.584	1.699	1.699	2.301	3.154
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			104.822								
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	05/03/71-05/03/71	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	10/25/76-11/28/78	5	0.2	0.18	0.5	0.	0.042	0.205	**	**	**	**
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	99 ##	0.05	0.069	0.25	0.025	0.001	0.037	0.05	0.05	0.1	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	100	0.05	0.05	0.19	0.005	0.001	0.034	0.01	0.026	0.058	0.1
71900	MERCURY, TOTAL (UG/L AS HG)	11/17/70-04/26/79	18 ##	0.25	0.239	0.25	0.15	0.001	0.032	0.15	0.25	0.25	0.25

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

EPA Water Quality Criteria Analysis for Station: HAFE0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00							3	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	107	1	0.01	27	0	0.00	37	0	0.00	43	1	0.02			
00400	PH	Other-Hi Lim.	9.	107	39	0.36	27	13	0.48	36	10	0.28	44	16	0.36			
		Other-Lo Lim.	6.5	107	0	0.00	27	0	0.00	36	0	0.00	44	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	8	0	0.00	1	0	0.00	4	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	1	0	0.00	4	0	0.00	3	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	99	0	0.00	24	0	0.00	35	0	0.00	40	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	69	0	0.00	17	0	0.00	25	0	0.00	27	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	31	0	0.00	7	0	0.00	10	0	0.00	14	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	11	0	0.00	2	0	0.00	3	0	0.00	6	0	0.00			
		Drinking Water	50.	11	0	0.00	2	0	0.00	3	0	0.00	6	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2 &	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2 &	0	0.00	1	0	0.00	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	19	0	0.00	3	0	0.00	6	0	0.00	10	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	19	2	0.11	3	0	0.00	6	0	0.00	10	2	0.20			
		Drinking Water	1300.	19	0	0.00	3	0	0.00	6	0	0.00	10	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	16	0	0.00	3	0	0.00	6	0	0.00	7	0	0.00			
		Drinking Water	15.	16	1	0.06	3	0	0.00	6	0	0.00	7	1	0.14			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	10	0	0.00	1	0	0.00	4	0	0.00	5	0	0.00			
		Drinking Water	100.	10	0	0.00	1	0	0.00	4	0	0.00	5	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	19	0	0.00	3	0	0.00	6	0	0.00	10	0	0.00			
		Drinking Water	5000.	19	0	0.00	3	0	0.00	6	0	0.00	10	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	13	8	0.62	5	3	0.60	2	1	0.50	6	4	0.67			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	90	24	0.27	19	7	0.37	34	8	0.24	37	9	0.24			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
50060	CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	5	3	0.60	1	0	0.00	1	0	0.00	3	3	1.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	18	0	0.00	3	0	0.00	6	0	0.00	9	0	0.00			
		Drinking Water	2.	18	0	0.00	3	0	0.00	6	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

Annual Analysis for 1968 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	4	23.6	19.575	27.2	3.9	112.143	10.59	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	4	10.	10.675	14.2	8.5	6.189	2.488	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	4	8.5	8.625	9.	8.5	0.063	0.25	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	4	8.5	8.581	9.	8.5	0.065	0.255	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	4	0.003	0.003	0.003	0.001	0.	0.001	**	**	**	**

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

Annual Analysis for 1969 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	2	23.35	23.35	25.6	21.1	10.125	3.182	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	2	8.	8.	8.4	7.6	0.32	0.566	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	2	8.6	8.6	9.2	8.	0.72	0.849	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	2	8.274	8.274	9.2	8.	0.932	0.965	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	2	0.005	0.005	0.01	0.001	0.	0.007	**	**	**	**

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

Annual Analysis for 1970 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	9	16.1	15.744	27.2	6.7	64.518	8.032	6.7	8.05	23.65	27.2
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	9	10.8	10.6	15.6	6.6	7.34	2.709	6.6	8.3	12.4	15.6
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	9	8.5	8.356	9.3	7.3	0.423	0.65	7.3	7.8	8.9	9.3
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	9	8.5	7.95	9.3	7.3	0.608	0.78	7.3	7.8	8.9	9.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	9	0.003	0.011	0.05	0.001	0.	0.016	0.001	0.001	0.018	0.05
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	8	0.055	0.097	0.3	0.005	0.01	0.101	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	8	0.01	0.011	0.02	0.005	0.	0.004	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	8	0.535	0.656	1.299	0.19	0.201	0.448	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	8	0.35	0.425	1.	0.2	0.068	0.26	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	2 ##	1775.	1775.	3500.	50.	5951250.	2439.518	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	2 ##	2.622	2.622	3.544	1.699	1.702	1.305	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			418.33								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	7	0.1	0.104	0.25	0.025	0.006	0.077	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	8	0.045	0.036	0.05	0.005	0.	0.018	**	**	**	**

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

Annual Analysis for 1971 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	12	16.7	15.192	27.8	0.	99.952	9.998	0.66	5.725	25.45	27.62
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	12	9.7	9.7	14.6	6.	5.684	2.384	6.3	8.05	11.2	14.
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	12	8.25	8.158	9.	6.7	0.426	0.653	6.91	7.775	8.7	8.91
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	12	8.247	7.601	9.	6.7	0.765	0.875	6.91	7.775	8.7	8.91
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	12	0.006	0.025	0.2	0.001	0.003	0.056	0.001	0.002	0.017	0.152
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	12	0.075	0.12	0.27	0.03	0.008	0.087	0.03	0.05	0.198	0.258
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	12	0.015	0.017	0.04	0.01	0.	0.009	0.01	0.01	0.02	0.034
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	12	0.985	0.933	1.689	0.09	0.211	0.459	0.15	0.583	1.229	1.614
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	12	0.4	0.533	1.899	0.3	0.197	0.444	0.3	0.3	0.575	1.509
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10	350.	1645.	6200.	50.	5628583.333	2372.464	50.	50.	3725.	6110.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10	2.5	2.602	3.792	1.699	0.721	0.849	1.699	1.699	3.56	3.786

** - Less 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 HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			400.112								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	12 ##	0.05	0.067	0.1	0.05	0.001	0.025	0.05	0.05	0.1	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	12	0.05	0.052	0.1	0.02	0.001	0.03	0.02	0.021	0.08	0.097

** - Less 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 HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	10	19.75	16.45	25.6	6.1	49.585	7.042	6.21	8.475	21.375	25.26
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	10	10.	10.28	12.4	7.8	2.135	1.461	7.94	9.35	11.9	12.38
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	10	7.9	8.1	9.2	7.5	0.347	0.589	7.5	7.575	8.55	9.15
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	10	7.889	7.844	9.2	7.5	0.419	0.648	7.5	7.575	8.55	9.15
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	10	0.013	0.014	0.032	0.001	0.	0.012	0.001	0.003	0.027	0.032
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	10	0.085	0.079	0.15	0.01	0.002	0.05	0.011	0.035	0.118	0.149
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	10	0.01	0.015	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.029
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	10	1.389	1.238	1.989	0.13	0.234	0.483	0.215	1.047	1.482	1.939
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	10	0.35	0.39	0.6	0.2	0.019	0.137	0.21	0.3	0.525	0.6
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	9 ##	50.	300.	2000.	50.	410625.	640.8	50.	50.	200.	2000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	9 ##	1.699	2.011	3.301	1.699	0.302	0.55	1.699	1.699	2.301	3.301
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			102.51								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	10 ##	0.05	0.07	0.15	0.05	0.001	0.035	0.05	0.05	0.1	0.145
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	10	0.05	0.052	0.12	0.01	0.001	0.032	0.011	0.028	0.073	0.116

** - Less 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 HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	10	13.85	13.72	27.8	1.1	90.264	9.501	1.21	5.575	21.125	27.8
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	10	10.8	11.31	15.	9.	3.228	1.797	9.1	10.075	12.35	14.84
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	9	8.7	8.489	9.5	7.	0.789	0.888	7.	7.65	9.2	9.5
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	9	8.7	7.73	9.5	7.	1.437	1.199	7.	7.65	9.2	9.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	9	0.002	0.019	0.1	0.	0.001	0.034	0.	0.001	0.03	0.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	10 ##	0.05	0.056	0.1	0.01	0.001	0.026	0.014	0.05	0.063	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	10 ##	0.008	0.01	0.02	0.005	0.	0.006	0.005	0.005	0.013	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	10	1.169	1.006	1.779	0.005	0.365	0.604	0.024	0.4	1.52	1.759
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	10	0.45	0.45	0.8	0.1	0.054	0.232	0.11	0.275	0.7	0.79
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10 ##	50.	140.	900.	50.	71555.556	267.499	50.	50.	62.5	820.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10 ##	1.699	1.855	2.954	1.699	0.158	0.398	1.699	1.699	1.774	2.859
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			71.548								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	10 ##	0.05	0.065	0.1	0.05	0.001	0.024	0.05	0.05	0.1	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	10 ##	0.05	0.064	0.1	0.04	0.001	0.025	0.041	0.05	0.1	0.1

** - 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 1974 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	12	12.5	15.508	26.7	3.3	73.346	8.564	4.32	7.75	23.9	26.7
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	12	10.1	10.475	13.2	8.4	2.307	1.519	8.58	9.225	11.75	12.9
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	12	8.7	8.425	9.	7.3	0.38	0.617	7.36	7.775	8.95	9.
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	12	8.7	7.98	9.	7.3	0.596	0.772	7.36	7.775	8.95	9.

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

Annual Analysis for 1974 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	12	0.002	0.01	0.05	0.001	0.	0.016	0.001	0.001	0.02	0.045
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	12 ##	0.05	0.058	0.1	0.05	0.	0.019	0.05	0.05	0.05	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	12 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	12	1.05	1.127	2.199	0.01	0.336	0.579	0.154	0.825	1.522	2.019
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	12	0.3	0.254	0.6	0.05	0.024	0.156	0.065	0.1	0.3	0.54
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	12 ##	50.	63.333	200.	10.	2224.242	47.162	22.	50.	50.	170.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	12 ##	1.699	1.716	2.301	1.	0.085	0.292	1.21	1.699	1.699	2.211
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			51.997								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	12 ##	0.05	0.062	0.1	0.05	0.001	0.023	0.05	0.05	0.088	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	12 ##	0.05	0.058	0.1	0.05	0.	0.019	0.05	0.05	0.05	0.1

** - 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 1975 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	10	10.	13.28	27.2	2.2	93.635	9.677	2.37	3.9	23.075	26.87
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	10	11.9	11.55	14.4	8.6	4.683	2.164	8.6	8.9	13.525	14.35
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	10	9.	8.71	9.5	7.1	0.523	0.723	7.19	8.225	9.1	9.49
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	10	9.	7.997	9.5	7.1	1.088	1.043	7.19	8.225	9.1	9.49
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	10	0.001	0.01	0.079	0.	0.001	0.025	0.	0.001	0.006	0.072
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	9 ##	0.05	0.106	0.3	0.05	0.008	0.088	0.05	0.05	0.15	0.3
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	9 ##	0.005	0.01	0.04	0.005	0.	0.011	0.005	0.005	0.01	0.04
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	9	1.189	1.182	1.699	0.7	0.097	0.311	0.7	0.945	1.4	1.699
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	9	0.2	0.244	0.6	0.1	0.033	0.181	0.1	0.1	0.35	0.6
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10 ##	50.	405.	3100.	50.	909694.444	953.779	50.	50.	250.	2830.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10 ##	1.699	2.029	3.491	1.699	0.367	0.606	1.699	1.699	2.376	3.402
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			106.838								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	9 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	9 ##	0.05	0.047	0.08	0.01	0.	0.019	0.01	0.04	0.05	0.08

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

Annual Analysis for 1976 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	11	10.	13.4	28.9	0.6	90.292	9.502	1.04	6.1	20.6	28.68
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	11	12.	11.736	14.4	9.4	2.749	1.658	9.44	9.6	12.8	14.2
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	11	9.	8.664	9.4	7.6	0.471	0.686	7.64	7.8	9.3	9.38
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	11	9.	8.202	9.4	7.6	0.705	0.84	7.64	7.8	9.3	9.38
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	11	0.001	0.006	0.025	0.	0.	0.009	0.	0.001	0.016	0.023
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	12 ##	0.05	0.062	0.1	0.05	0.001	0.023	0.05	0.05	0.088	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	12 ##	0.005	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.017
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	8	1.099	1.242	3.799	0.05	1.218	1.103	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	12	0.25	0.358	1.099	0.1	0.079	0.281	0.1	0.2	0.475	0.949
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10 ##	50.	140.	600.	50.	29888.889	172.884	50.	50.	200.	560.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	10 ##	1.699	1.957	2.778	1.699	0.146	0.382	1.699	1.699	2.301	2.73
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			90.657								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	12 ##	0.05	0.075	0.2	0.05	0.002	0.045	0.05	0.05	0.1	0.17
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	12	0.025	0.026	0.04	0.01	0.	0.012	0.01	0.013	0.04	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 box-and-whisker plot

Annual Analysis for 1977 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	10	2.35	8.69	27.	0.4	108.225	10.403	0.46	1.225	19.875	26.7
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	10	10.95	10.54	16.1	0.	17.027	4.126	1.	10.15	12.425	15.8
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	11	9.	8.818	9.5	7.5	0.338	0.581	7.6	8.6	9.2	9.44
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	11	9.	8.336	9.5	7.5	0.593	0.77	7.6	8.6	9.2	9.44
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	11	0.001	0.005	0.032	0.	0.	0.009	0.	0.001	0.003	0.027
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	11 ##	0.05	0.059	0.1	0.05	0.	0.02	0.05	0.05	0.05	0.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	10 ##	0.008	0.01	0.02	0.005	0.	0.006	0.005	0.005	0.013	0.02
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	11	0.5	0.559	1.099	0.05	0.123	0.351	0.08	0.2	0.9	1.079
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	11 ##	50.	100.	300.	50.	10000.	100.	50.	50.	100.	300.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	11 ##	1.699	1.868	2.477	1.699	0.099	0.314	1.699	1.699	2.	2.477
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			73.76								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	11 ##	0.05	0.064	0.1	0.05	0.001	0.023	0.05	0.05	0.1	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	11	0.02	0.041	0.13	0.005	0.002	0.044	0.005	0.005	0.08	0.122

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

Annual Analysis for 1978 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	12	12.75	13.342	25.	0.1	86.728	9.313	0.37	4.875	23.	24.55
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	12	11.	11.142	14.1	8.4	4.57	2.138	8.43	8.95	13.3	14.07
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	12	9.1	9.	9.5	7.9	0.233	0.482	8.08	8.7	9.45	9.5
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	12	9.089	8.691	9.5	7.9	0.337	0.581	8.08	8.7	9.45	9.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	12	0.001	0.002	0.013	0.	0.	0.003	0.	0.	0.002	0.01
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	11	0.1	0.105	0.2	0.05	0.004	0.065	0.05	0.05	0.2	0.2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	11	0.01	0.011	0.05	0.005	0.	0.013	0.005	0.005	0.01	0.042
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	11	0.3	0.391	0.9	0.1	0.075	0.274	0.1	0.1	0.6	0.88
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	11 ##	50.	540.909	2300.	50.	723909.091	850.828	50.	50.	1500.	2180.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	11 ##	1.699	2.151	3.362	1.699	0.514	0.717	1.699	1.699	3.176	3.335
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			141.581								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	11 ##	0.05	0.082	0.2	0.05	0.002	0.046	0.05	0.05	0.1	0.18
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	11	0.04	0.07	0.19	0.005	0.004	0.064	0.005	0.03	0.13	0.182

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

Annual Analysis for 1979 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	5	17.	14.5	21.5	1.5	68.875	8.299	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	5	10.3	10.66	13.4	9.3	2.713	1.647	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	5	8.6	8.52	8.9	8.1	0.102	0.319	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	5	8.6	8.427	8.9	8.1	0.113	0.336	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	5	0.003	0.004	0.008	0.001	0.	0.003	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	5 ##	0.05	0.06	0.1	0.05	0.001	0.022	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	5	0.01	0.012	0.02	0.005	0.	0.008	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	5	0.3	0.24	0.3	0.1	0.008	0.089	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	5 ##	50.	100.	300.	50.	12500.	111.803	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	5 ##	1.699	1.855	2.477	1.699	0.121	0.348	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			71.548								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	5 ##	0.05	0.06	0.1	0.05	0.001	0.022	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	5	0.06	0.049	0.08	0.005	0.001	0.031	**	**	**	**

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

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	27	22.2	19.267	28.9	1.3	62.958	7.935	2.44	16.	25.6	27.2
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	27	9.6	9.626	12.4	7.6	1.306	1.143	7.96	8.8	10.4	11.1
00310	BOD, 5 DAY, 20 DEG C MG/L	12/09/68-06/21/79	4	3.5	3.225	4.	1.9	1.003	1.001	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	27	8.8	8.681	9.5	7.6	0.318	0.564	7.78	8.2	9.	9.34
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	27	8.8	8.322	9.5	7.6	0.452	0.672	7.78	8.2	9.	9.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	27	0.002	0.005	0.025	0.	0.	0.007	0.	0.001	0.006	0.017
00500	RESIDUE, TOTAL (MG/L)	12/09/68-06/21/79	5	320.	342.	497.	188.	14739.5	121.406	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	12/09/68-06/21/79	5	55.	58.6	102.	21.	834.3	28.884	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	12/09/68-06/21/79	5	265.	283.4	395.	167.	9033.3	95.044	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/09/68-06/21/79	4	40.	105.25	340.	1.	25352.917	159.226	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	12/09/68-06/21/79	4	9.5	13.75	36.	0.	268.25	16.378	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	12/09/68-06/21/79	4	30.5	91.5	304.	1.	20571.	143.426	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	24	0.07	0.094	0.27	0.01	0.004	0.066	0.045	0.05	0.1	0.215
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	24	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	17	0.99	0.958	1.989	0.005	0.352	0.594	0.041	0.385	1.445	1.677
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	24	0.45	0.567	1.899	0.1	0.147	0.383	0.2	0.3	0.7	1.05
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/06/70-04/26/79	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/06/70-04/26/79	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/06/70-04/26/79	3	20.	18.333	30.	5.	158.333	12.583	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	19 ##	50.	505.263	5300.	50.	1508026.316	1228.017	50.	50.	300.	1700.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	19 ##	1.699	2.133	3.724	1.699	0.369	0.608	1.699	1.699	2.477	3.23
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			135.86								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	23 ##	0.05	0.08	0.25	0.05	0.002	0.045	0.05	0.05	0.1	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	24	0.05	0.053	0.12	0.005	0.001	0.034	0.005	0.03	0.08	0.1
71900	MERCURY, TOTAL (UG/L AS HG)	11/17/70-04/26/79	3 ##	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 box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	37	5.6	5.278	14.4	0.	14.11	3.756	0.56	2.1	8.05	10.22
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	37	12.6	12.692	16.1	6.	3.167	1.78	10.96	11.8	13.95	14.68
00310	BOD, 5 DAY, 20 DEG C MG/L	12/09/68-06/21/79	9	2.8	2.8	5.	1.4	1.28	1.131	1.4	2.	3.5	5.
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	36	8.4	8.339	9.5	6.7	0.5	0.707	7.44	7.725	9.	9.2
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	36	8.389	7.781	9.5	6.7	0.821	0.906	7.44	7.725	9.	9.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	36	0.004	0.017	0.2	0.	0.001	0.036	0.001	0.001	0.019	0.037
00500	RESIDUE, TOTAL (MG/L)	12/09/68-06/21/79	5	187.	265.	429.	165.	15670.	125.18	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	12/09/68-06/21/79	5	56.	51.	66.	32.	174.	13.191	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	12/09/68-06/21/79	5	155.	214.	373.	108.	13876.	117.796	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/09/68-06/21/79	6	3.5	30.167	154.	0.5	3730.867	61.081	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	12/09/68-06/21/79	6	1.25	6.167	30.	0.	138.467	11.767	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	12/09/68-06/21/79	6	2.5	24.167	124.	0.5	2422.867	49.223	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	35 ##	0.05	0.075	0.3	0.005	0.003	0.058	0.03	0.05	0.1	0.164
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	35	0.01	0.01	0.03	0.005	0.	0.006	0.005	0.005	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	25	1.199	1.201	2.199	0.09	0.187	0.433	0.56	1.035	1.49	1.623
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	35	0.3	0.266	0.6	0.05	0.023	0.151	0.1	0.1	0.4	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/06/70-04/26/79	6 ##	5.	5.833	10.	5.	4.167	2.041	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/06/70-04/26/79	6 ##	5.	5.833	10.	0.	14.167	3.764	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/06/70-04/26/79	6	25.	26.667	40.	20.	66.667	8.165	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	34 ##	50.	339.706	3500.	50.	703299.911	838.63	50.	50.	125.	1300.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	34 ##	1.699	1.97	3.544	1.699	0.293	0.542	1.699	1.699	2.075	3.04
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			93.344								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	35 ##	0.05	0.073	0.2	0.05	0.002	0.039	0.05	0.05	0.1	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	35	0.05	0.054	0.15	0.005	0.001	0.036	0.01	0.03	0.07	0.118
71900	MERCURY, TOTAL (UG/L AS HG)	11/17/70-04/26/79	6 ##	0.25	0.233	0.25	0.15	0.002	0.041	**	**	**	**

** - 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 box-and-whisker plot

Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/68-06/21/79	43	21.	19.093	27.8	6.7	44.82	6.695	8.36	12.8	24.	27.48
00300	OXYGEN, DISSOLVED MG/L	07/18/68-06/21/79	43	9.8	9.758	13.4	0.	4.479	2.116	8.2	9.	11.	12.
00310	BOD, 5 DAY, 20 DEG C MG/L	12/09/68-06/21/79	11	2.	1.927	5.	1.	1.32	1.149	1.	1.	2.1	4.48
00400	PH (STANDARD UNITS)	07/18/68-06/21/79	44	8.7	8.607	9.5	7.	0.429	0.655	7.45	8.35	9.	9.45
00400	CONVERTED PH (STANDARD UNITS)	07/18/68-06/21/79	44	8.7	8.043	9.5	7.	0.754	0.868	7.45	8.35	9.	9.45
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/68-06/21/79	44	0.002	0.009	0.1	0.	0.	0.019	0.	0.001	0.005	0.036
00500	RESIDUE, TOTAL (MG/L)	12/09/68-06/21/79	11	193.	201.636	400.	22.	8185.055	90.471	46.8	165.	233.	373.2
00505	RESIDUE, TOTAL VOLATILE (MG/L)	12/09/68-06/21/79	11	50.	51.364	99.	9.	584.055	24.167	14.4	37.	61.	95.2
00510	RESIDUE, TOTAL FIXED (MG/L)	12/09/68-06/21/79	11	162.	168.545	342.	110.	4122.073	64.203	110.6	126.	175.	314.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/09/68-06/21/79	11	10.	31.591	248.	0.5	5186.741	72.019	0.6	6.	16.	202.2
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	12/09/68-06/21/79	11	4.	7.409	44.	0.5	152.741	12.359	0.6	2.	7.	36.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	12/09/68-06/21/79	11	7.	24.318	204.	0.5	3568.014	59.733	0.6	4.	9.	166.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/05/70-06/21/79	41 ##	0.05	0.078	0.3	0.02	0.003	0.059	0.05	0.05	0.1	0.188
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/05/70-06/21/79	40	0.01	0.013	0.05	0.005	0.	0.011	0.005	0.005	0.02	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/05/70-09/29/76	27	0.98	0.988	3.799	0.01	0.518	0.719	0.178	0.49	1.199	1.715
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/05/70-06/21/79	41	0.3	0.402	1.099	0.1	0.06	0.245	0.12	0.2	0.5	0.8
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/06/70-04/26/79	10 ##	5.	6.	10.	5.	4.444	2.108	5.	5.	6.25	10.
01042	COPPER, TOTAL (UG/L AS CU)	04/06/70-04/26/79	10 ##	5.	9.	30.	5.	76.667	8.756	5.	5.	8.75	29.
01092	ZINC, TOTAL (UG/L AS ZN)	04/06/70-04/26/79	10 ##	5.	9.	20.	5.	37.778	6.146	5.	5.	12.5	20.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	37 ##	50.	451.622	6200.	10.	1371208.408	1170.986	50.	50.	150.	1660.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/17/70-06/21/79	37 ##	1.699	2.009	3.792	1.	0.379	0.616	1.699	1.699	2.151	3.213
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			102.07								
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/05/70-06/21/79	41 ##	0.05	0.06	0.15	0.025	0.001	0.027	0.05	0.05	0.05	0.1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/05/70-06/21/79	41	0.05	0.044	0.19	0.005	0.001	0.033	0.005	0.02	0.05	0.08
71900	MERCURY, TOTAL (UG/L AS HG)	11/17/70-04/26/79	9 ##	0.25	0.239	0.25	0.15	0.001	0.033	0.15	0.25	0.25	0.25

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

Station Inventory for Station: HAFE0020

NPS Station ID: HAFE0020 | LAT/LON: 39.487726/ -77.709143 | Agency: 31POTOMA | Date Created: / /
Location: WASH. CO.-KDSVLLE-BKRVLLE RD. | FIPS State/County: 24000 MARYLAND/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 552040
RMI-Indexes: 0214001 | Within Park Boundary: No
RMI-Miles: 0180.00
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: POTOMAC RIVER | Elevation: 0 | Water Body Id:
Minor Basin: ANTIETAM CREEK | ECO Region:
RF1 Index: 02070004002 | RF1 Mile Point: 6.710 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 02070004000100.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.05 | On/Off RF3:
Description:
STATION IS LOCATED ON ANTIETAM CREEK IN WASHINGTON COUNTY, MARYLAND. SAMPLING IS FROM THE UPPER BRIDGE ON THE KEEDYSVILLE-BAKERVILLE ROAD AT THE INTERSECTION OF MANSFIELD ROAD.

Parameter Inventory for Station: HAFE0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/71-02/12/74	55	12.	11.673	21.	2.	35.506	5.959	4.	6.1	17.	20.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/08/71-02/12/74	56	15.	28.055	200.	1.8	1410.192	37.553	5.	10.	25.	61.
00400	PH (STANDARD UNITS)	07/08/71-02/12/74	56	8.	7.895	8.3	7.2	0.05	0.224	7.57	7.8	8.	8.1
00400	CONVERTED PH (STANDARD UNITS)	07/08/71-02/12/74	56	8.	7.83	8.3	7.2	0.054	0.233	7.57	7.8	8.	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/71-02/12/74	56	0.01	0.015	0.063	0.005	0.	0.01	0.008	0.01	0.016	0.027
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/71-02/12/74	55	192.	182.764	223.	99.	671.888	25.921	143.	173.	198.	210.4
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/05/74-02/12/74	2	1430.	1430.	2400.	460.	1881800.	1371.787	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/05/74-02/12/74	2	3.021	3.021	3.38	2.663	0.257	0.507	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1050.714								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/08/71-01/22/74	52	2400.	12503.25	110000.	93.	705350139.172	26558.429	240.	460.	11000.	39400.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/08/71-01/22/74	52	3.38	3.369	5.041	1.968	0.696	0.834	2.38	2.663	4.041	4.578
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2338.872								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-10/30/73	1	46000.	46000.	46000.	46000.	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-10/30/73	1	4.663	4.663	4.663	4.663	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			46000.								
51505	INVALID PARAMETER	08/02/71-08/16/71	2	14300.	14300.	24000.	4600.	188180000.	13717.872	**	**	**	**

** - Less 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: HAFE0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	56	8	0.14	15	2	0.13	22	2	0.09	19	4	0.21			
00400	PH	Other-Hi Lim.	9.	56	0	0.00	15	0	0.00	22	0	0.00	19	0	0.00			
		Other-Lo Lim.	6.5	56	0	0.00	15	0	0.00	22	0	0.00	19	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	1	0.50				2	1	0.50						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	52	33	0.63	14	13	0.93	20	7	0.35	18	13	0.72			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	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: HAFE0021

NPS Station ID: HAFE0021
LAT/LON: 39.323531/ -77.710477
Agency: 21MDEXP
Date Created: 10/11/80
Location: US 340 BRIDGE
FIPS State/County: 24021 MARYLAND/FREDERICK
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POT1707
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070008001703.38
RF3 Mile Point: 3.38
Distance from RF3: 0.08
On/Off RF3:
Description:
02-14-03-01 POTOMAC RIVER FREDERICK CO. AREA DRAINAGE POTOMAC RIVER RIVER MILE IS 170.70
RECEIVING TRIBUTARY IS CHESAPEAKE BAY US 340 BRIDGE

Parameter Inventory for Station: HAFE0021

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: HAFE0022

NPS Station ID: HAFE0022 LAT/LON: 39.320003/ -77.713892 Agency: 21VASWCB Date Created: 01/13/96
Location: RT. 340 FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1APIA000.18
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070008 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070008 RF1 Mile Point: 0.000 Distance from RF1: 12.80 On/Off RF1:
RF3 Index: 02070004010303.75 RF3 Mile Point: 5.94 Distance from RF3: 0.02 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: PINEY RUN SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPERS FERRY, VA

Parameter Inventory for Station: HAFE0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	06/19/75-06/19/75	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/75-06/19/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/19/75-06/19/75	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/75-06/19/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/19/75-06/19/75	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/19/75-06/19/75	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/75-06/19/75	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/75-06/19/75	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	06/19/75-06/19/75	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/19/75-06/19/75	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/19/75-06/19/75	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/75-06/19/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/75-06/19/75	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/75-06/19/75	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: HAFE0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: HAFE0023

NPS Station ID: HAFE0023 | LAT/LON: 39.320003/ -77.713892 | Agency: 21VASWCB | Date Created: 01/13/96
Location: RT. 621 | FIPS State/County: 51099 VIRGINIA/KING GEORGE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 1APIN004.94
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02080104 | Depth of Water: 0 | Aquifer:
Major Basin: 02-NORTH ATLANTIC | Elevation: 0 | Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH | ECO Region:
RF1 Index: 02080104 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: PINE HILL CREEK SECTION: 01A TOPO MAP #: 0052 TOPO MAP NAME: DAHLGREN, VA

Parameter Inventory for Station: HAFE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/88-08/15/88	1	26.7	26.7	26.7	26.7	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/15/88-08/15/88	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/10/75-08/15/88	2	6.65	6.65	12.	1.3	57.245	7.566	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	02/10/75-08/15/88	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	02/10/75-08/15/88	2	14.5	14.5	25.	4.	220.5	14.849	**	**	**	**
00400	PH (STANDARD UNITS)	02/10/75-08/15/88	2	6.6	6.6	7.	6.2	0.32	0.566	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/10/75-08/15/88	2	6.437	6.437	7.	6.2	0.373	0.611	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/10/75-08/15/88	2	0.365	0.365	0.631	0.1	0.141	0.375	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/15/88-08/15/88	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/15/88-08/15/88	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/88-08/15/88	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/88-08/15/88	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/10/75-02/10/75	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	02/10/75-02/10/75	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	02/10/75-02/10/75	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/10/75-08/15/88	2	8.	8.	14.	2.	72.	8.485	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	02/10/75-08/15/88	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	02/10/75-08/15/88	2	4.	4.	8.	0.	32.	5.657	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/10/75-08/15/88	2 ##	0.105	0.105	0.16	0.05	0.006	0.078	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/75-08/15/88	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/10/75-08/15/88	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/10/75-08/15/88	2	0.45	0.45	0.8	0.1	0.245	0.495	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/10/75-08/15/88	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/10/75-08/15/88	2 ##	0.065	0.065	0.08	0.05	0.	0.021	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/10/75-08/15/88	2	5.75	5.75	7.5	4.	6.125	2.475	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/15/88-08/15/88	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/15/88-08/15/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/10/75-02/10/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/15/88-08/15/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/15/88-08/15/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/15/88-08/15/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/15/88-08/15/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/15/88-08/15/88	1	8190.	8190.	8190.	8190.	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: HAFE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	08/15/88-08/15/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/15/88-08/15/88	1	60.	60.	60.	60.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/15/88-08/15/88	1 ##	0.15	0.15	0.15	0.15	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: HAFE0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	0.50	1	1	1.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	1	0.50	1	1	1.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00	1	0	0.00	1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HAFE0024

NPS Station ID: HAFE0024 | LAT/LON: 39.477476/ -77.716615 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: ANTIETAM CREEK - PRY FARM | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_ACPF
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 330 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED ON ANTIETAM CREEK WHERE THE CREEK ENTERS PARK PROPERTY. ANTIETAM CREEK IS THE MAJOR WATER BODY WITHIN THE PARK. THIS CREEK FLOWS IN A NORTH/SOUTH DIRECTION THROUGH WASHINGTON COUNTY MARYLAND AND IS ONE OF THE MAJOR TRIBUTARIES TO THE POTOMAC RIVER. APPROXIMATELY TWO MILES OF THE ANTIETAM FLOW THROUGH OR ADJACENT TO THE BATTLEFIELD WITH AN AVERAGE GRADIENT OF 7.9 FEET PER MILE. THE GROUNDWATER IS AN ALKALINE CALCIUM BICARBONATE IN NATURE. THE CREEK FLOWS THROUGH A HAGERS- TOWN - DUFFIELD - FUNKSTOWN SOILS ASSOCIATION - SOILS OF LIMESTONE VALLEYS - AS IT APPEARS ON THE GENERAL SOIL MAP FOR WASHINGTON COUNTY MD. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. - CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/07/85-07/07/88	30	14.75	13.647	25.	2.2	47.323	6.879	3.3	5.825	20.	21.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/07/85-07/07/88	30	550.	562.833	680.	390.	5292.557	72.75	462.	507.5	622.5	668.
00300	OXYGEN, DISSOLVED MG/L	06/07/85-07/07/88	30	10.	10.433	16.	5.	6.392	2.528	8.	8.75	13.	14.
00400	PH (STANDARD UNITS)	06/07/85-02/17/88	27	7.8	7.789	8.5	7.	0.158	0.397	7.2	7.5	8.1	8.34
00400	CONVERTED PH (STANDARD UNITS)	06/07/85-02/17/88	27	7.8	7.616	8.5	7.	0.189	0.435	7.2	7.5	8.1	8.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/07/85-02/17/88	27	0.016	0.024	0.1	0.003	0.001	0.024	0.005	0.008	0.032	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/85-07/07/88	30	11.	10.967	14.	9.	1.757	1.326	9.1	10.	12.	12.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/85-07/07/88	30	0.4	0.445	3.	0.05	0.282	0.531	0.05	0.2	0.6	0.7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/85-07/07/88	30	4.75	4.83	9.9	3.	2.074	1.44	3.	4.	6.	6.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/07/85-07/07/88	30	0.85	0.922	4.2	0.05	0.745	0.863	0.05	0.088	1.225	1.79
00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/85-07/07/88	29	5.	5.276	9.	3.	1.85	1.36	4.	4.	6.	7.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/07/88	24	1.95	3.158	11.	0.8	7.254	2.693	1.05	1.4	4.2	7.7

** - 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

EPA Water Quality Criteria Analysis for Station: HAFE0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00400	PH	Other-Hi Lim.	9.	27	0	0.00	7	0	0.00	10	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	27	0	0.00	7	0	0.00	10	0	0.00	10	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0025

NPS Station ID: HAFE0025
LAT/LON: 39.310837/ -77.718337
Agency: 112WRD
Date Created: / /
Location: PINEY RUN NEAR LOVETTSVILLE, VA
FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01636690
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070008
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070008
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070008002111.08
RF3 Mile Point: 11.08
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/69-05/19/69	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	05/19/69-05/19/69	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/19/69-05/19/69	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/69-05/19/69	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/19/69-05/19/69	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/19/69-05/19/69	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/19/69-05/19/69	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/19/69-05/19/69	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/19/69-05/19/69	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/19/69-05/19/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/19/69-05/19/69	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/19/69-05/19/69	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/19/69-05/19/69	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/69-05/19/69	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/69-05/19/69	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/19/69-05/19/69	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/19/69-05/19/69	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/19/69-05/19/69	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/19/69-05/19/69	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/19/69-05/19/69	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/19/69-05/19/69	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/19/69-05/19/69	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/19/69-05/19/69	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/19/69-05/19/69	1	70.	70.	70.	70.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/19/69-05/19/69	1	64.	64.	64.	64.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/19/69-05/19/69	1	53.	53.	53.	53.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	05/19/69-05/19/69	1	1.04	1.04	1.04	1.04	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/19/69-05/19/69	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/19/69-05/19/69	1	2.3	2.3	2.3	2.3	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: HAFE0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
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: HAFE0026

NPS Station ID: HAFE0026 LAT/LON: 39.311115/ -77.719170 Agency: 21VASWCB Date Created: 08/18/90
Location: ROUTE 671 FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1APIA001.80
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070008 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH-ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070008 RF1 Mile Point: 0.000 Distance from RF1: 0.60 On/Off RF1:
RF3 Index: 02070008002704.11 RF3 Mile Point: 4.11 Distance from RF3: 0.00 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: PINEY RUN SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPER'S FERRY, VA - MD - W VA

Parameter Inventory for Station: HAFE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/90-08/13/96	21	11.5	12.276	23.4	0.5	56.118	7.491	1.22	5.05	19.5	22.78
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/25/90-04/20/92	5	4.7	5.54	9.7	2.1	12.583	3.547	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/03/94-05/16/96	8	6.5	8.738	27.	3.1	60.057	7.75	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/29/91-02/02/93	6	34.	39.667	76.	22.	426.667	20.656	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/27/92-08/13/96	18	102.	101.667	120.	74.	184.471	13.582	83.	89.5	114.25	117.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/25/90-05/16/96	20	96.	96.2	113.	73.	115.432	10.744	80.3	88.25	105.75	111.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	01/27/92-08/13/96	18	9.6	10.05	13.	7.2	3.869	1.967	7.65	8.2	12.	12.91
00300	OXYGEN, DISSOLVED MG/L	10/25/90-05/29/91	3	10.1	10.033	12.3	7.7	5.293	2.301	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/25/90-05/16/96	20	1.6	1.51	3.1	0.5	0.438	0.662	0.55	1.	2.	2.
00340	COD, .25N K2CR2O7 MG/L	10/25/90-05/16/96	20	10.	10.9	20.	2.5	23.332	4.83	2.85	8.25	13.	19.
00400	PH (STANDARD UNITS)	10/25/90-08/13/96	20	7.2	7.225	7.7	6.6	0.077	0.277	7.	7.	7.4	7.6
00400	CONVERTED PH (STANDARD UNITS)	10/25/90-08/13/96	20	7.2	7.139	7.7	6.6	0.084	0.291	7.	7.	7.4	7.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/25/90-08/13/96	20	0.063	0.073	0.251	0.02	0.003	0.052	0.025	0.04	0.1	0.1
00403	PH, LAB, STANDARD UNITS SU	10/25/90-05/16/96	19	6.9	6.895	7.4	6.5	0.066	0.257	6.5	6.8	7.1	7.4
00403	CONVERTED PH, LAB, STANDARD UNITS	10/25/90-05/16/96	19	6.9	6.828	7.4	6.5	0.071	0.266	6.5	6.8	7.1	7.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/25/90-05/16/96	19	0.126	0.149	0.316	0.04	0.007	0.082	0.04	0.079	0.158	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/25/90-05/16/96	19	23.	24.947	38.	12.	68.164	8.256	14.	18.	33.	38.
00500	RESIDUE, TOTAL (MG/L)	10/25/90-05/16/96	20	78.5	79.2	105.	56.	151.326	12.301	61.5	70.25	85.5	100.4
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/25/90-05/16/96	20	22.	22.95	32.	15.	29.629	5.443	16.1	18.25	28.	31.
00510	RESIDUE, TOTAL FIXED (MG/L)	10/25/90-05/16/96	20	56.5	56.25	78.	39.	108.092	10.397	39.5	49.25	63.	72.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/25/90-05/16/96	20	5.	6.175	29.	1.5	37.534	6.126	1.5	3.	7.	13.4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/25/90-05/16/96	20	1.5	1.725	5.	0.5	1.091	1.045	1.	1.	2.	3.8
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/25/90-05/16/96	20	3.	4.675	25.	1.	30.218	5.497	1.05	1.5	5.75	11.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/25/90-05/16/96	20 ##	0.02	0.027	0.09	0.02	0.	0.017	0.02	0.02	0.02	0.049
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/25/90-05/16/96	20 ##	0.005	0.007	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/25/90-05/16/96	20	0.6	0.584	1.4	0.02	0.121	0.348	0.099	0.315	0.808	1.158
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/90-05/16/96	20	0.3	0.32	0.6	0.1	0.019	0.136	0.2	0.2	0.375	0.59
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/90-05/16/96	20 ##	0.05	0.065	0.1	0.05	0.001	0.024	0.05	0.05	0.1	0.1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/25/90-04/20/92	5	0.01	0.014	0.03	0.005	0.	0.011	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/25/90-05/16/96	20	3.75	4.085	7.7	1.6	2.64	1.625	1.84	3.05	5.15	6.65
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/25/90-05/16/96	20	35.	35.3	54.	24.	54.011	7.349	26.2	30.	39.75	44.8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/02/93-02/02/93	1	3130.	3130.	3130.	3130.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/25/90-05/16/96	20	5.	5.475	9.	2.5	1.881	1.371	4.	5.	6.	7.

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Parameter Inventory for Station: HAFE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	10/25/90-05/16/96	20	9.5	9.25	15.	5.	10.618	3.259	5.	6.	12.	14.8
00951	FLUORIDE, TOTAL (MG/L AS F)	10/25/90-02/02/93	8 ##	0.05	0.104	0.25	0.015	0.009	0.094	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/25/90-02/02/93	8	13.9	14.525	18.4	12.1	4.731	2.175	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	02/02/93-08/03/94	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/02/93-02/02/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/93-08/03/94	2 ##	3.25	3.25	5.	1.5	6.125	2.475	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/02/93-08/03/94	2 ##	15.	15.	25.	5.	200.	14.142	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/02/93-08/03/94	2 ##	15.	15.	25.	5.	200.	14.142	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/02/93-08/03/94	2	473.5	473.5	625.	322.	45904.5	214.253	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/93-08/03/94	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/02/93-08/03/94	2	47.05	47.05	61.	33.1	389.205	19.728	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	02/02/93-02/02/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	02/02/93-08/03/94	2 ##	15.	15.	25.	5.	200.	14.142	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/02/93-08/03/94	2 ##	20.	20.	25.	15.	50.	7.071	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/02/93-08/03/94	2 ##	16.5	16.5	23.	10.	84.5	9.192	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/27/92-05/16/96	17	100.	475.647	2500.	50.	464416.618	681.481	50.	68.	800.	1540.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/27/92-05/16/96	17	2.	2.308	3.398	1.699	0.322	0.567	1.699	1.833	2.841	3.171
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			203.301								
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34351	ENDOSULFAN SULFATE TOTWUG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
38745	2,4-DB WATER, TOTUG/L	08/30/93-08/30/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	08/30/93-08/30/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/02/93-08/03/94	2	33.	33.	36.	30.	18.	4.243	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/03/92-05/16/96	15	0.02	0.021	0.04	0.005	0.	0.01	0.008	0.01	0.03	0.034
71900	MERCURY, TOTAL (UG/L AS HG)	02/02/93-08/03/94	2 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
77825	ALACHLOR WHOLE WATER,UG/L	08/30/93-08/30/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82032	CALCIUM - TOTAL UG/L (AS CA)	02/02/93-02/02/93	1	6700.	6700.	6700.	6700.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/03/92-05/17/94	7	4.3	4.471	5.9	2.	1.862	1.365	**	**	**	**

** - Less 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: HAFE0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	8	0	0.00	2	0	0.00	4	0	0.00	2	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	18	0	0.00	5	0	0.00	8	0	0.00	5	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	20	0	0.00	6	0	0.00	8	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	20	0	0.00	6	0	0.00	8	0	0.00	6	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	19	0	0.00	5	0	0.00	9	0	0.00	5	0	0.00			
		Other-Lo Lim.	6.5	19	2	0.11	5	1	0.20	9	1	0.11	5	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	20	0	0.00	5	0	0.00	9	0	0.00	6	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	20	0	0.00	5	0	0.00	9	0	0.00	6	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	20	0	0.00	5	0	0.00	9	0	0.00	6	0	0.00			
		Drinking Water	250.	20	0	0.00	5	0	0.00	9	0	0.00	6	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	20	0	0.00	5	0	0.00	9	0	0.00	6	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	2	0	0.00	4	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1 &	0	0.00	1	0	0.00									
		Drinking Water	5.	1 &	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	0	0.00				1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	15.	2	0	0.00	1	0	0.00	1	0	0.00						
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	1	0.50	1	1	1.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	8	0.47	4	2	0.50	8	3	0.38	5	3	0.60			
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	1	0	0.00	1	0	0.00									
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.4	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	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									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	2	0	0.00	3	0	0.00	2	0	0.00			

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

Station Inventory for Station: HAFE0027

NPS Station ID: HAFE0027 LAT/LON: 39.465005/ -77.725560 Agency: 1112A9WQ Date Created: / /
Location: NTIETUM CK AT RT 34058 FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): UP-POT-058 /ANTIE 058 /058 /POT 058
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 999 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC A ECO Region:
RF1 Index: 02070004002 RF1 Mile Point: 4.600 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 02070004000400.00 RF3 Mile Point: 0.41 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/72-04/17/73	3	13.	10.833	15.5	4.	36.583	6.048	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/24/72-04/17/73	4	9.45	10.175	12.8	9.	3.189	1.786	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/24/72-05/24/72	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/24/72-05/24/72	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/24/72-05/24/72	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/72-05/24/72	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	1	148.	148.	148.	148.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/72-04/17/73	4	0.135	0.193	0.4	0.1	0.019	0.139	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/72-04/17/73	4	0.702	0.664	0.871	0.38	0.047	0.216	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/72-04/17/73	4	3.45	3.55	4.4	2.9	0.403	0.635	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/24/72-04/17/73	4	0.575	0.805	1.55	0.52	0.248	0.498	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/24/72-02/13/73	3	4.4	4.667	8.3	1.3	12.303	3.508	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	05/24/72-02/13/73	3	39.3	39.033	43.3	34.5	19.413	4.406	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/72-05/24/72	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/72-05/24/72	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/24/72-05/24/72	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/24/72-05/24/72	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/24/72-05/24/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/24/72-05/24/72	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/24/72-05/24/72	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/19/72-02/13/73	2	15.5	15.5	30.	1.	420.5	20.506	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/19/72-02/13/73	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/24/72-04/17/73	4	0.805	0.92	1.35	0.72	0.086	0.293	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/24/72-05/24/72	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	2	0	0.00	1	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: HAFE0028

NPS Station ID: HAFE0028
LAT/LON: 39.465670/ -77.726059
Agency: 21MDEXP
Date Created: 10/11/80
Location: BRIDGE AT PORTERSTOWN ROAD
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): ANT0058
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 4.600
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004000200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE ANTIETAM CREEK RIVER MILE IS 5.80
RECEIVING TRIBUTARY IS POTOMAC RIVER BRIDGE AT PORTERSTOWN ROAD

Parameter Inventory for Station: HAFE0028

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: HAFE0029

NPS Station ID: HAFE0029 LAT/LON: 39.261392/ -77.727505 Agency: 21VASWCB Date Created: 03/13/93
Location: ROUTE 687 (LOUDOUN CO) FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1APIA007.08
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070008 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070008 RF1 Mile Point: 0.000 Distance from RF1: 12.80 On/Off RF1:
RF3 Index: 02070004010303.75 RF3 Mile Point: 5.94 Distance from RF3: 0.02 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: PINEY RUN SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPERS FERRY, VA - MD - WVA

Parameter Inventory for Station: HAFE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	06/19/75-06/19/75	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/75-06/19/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/19/75-06/19/75	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/75-06/19/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/19/75-06/19/75	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/19/75-06/19/75	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/75-06/19/75	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/75-06/19/75	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	06/19/75-06/19/75	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/19/75-06/19/75	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/19/75-06/19/75	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/75-06/19/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/75-06/19/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/75-06/19/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/75-06/19/75	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/75-06/19/75	1	500.	500.	500.	500.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/75-06/19/75	1	2.699	2.699	2.699	2.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			500.								

** - Less 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: HAFE0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
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			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	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: HAFE0030

NPS Station ID: HAFE0030 | LAT/LON: 39.323616/ -77.728087 | Agency: 31POTOMA | Date Created: / /
Location: B+O RR BRIDGE AT HARPER'S FERRY | FIPS State/County: 24000 MARYLAND/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 552029
RMI-Indexes: 0214001 | Within Park Boundary: No
RMI-Miles: 0171.50
HUC: 02070007 | Depth of Water: 0 | Aquifer:
Major Basin: POTOMAC RIVER | Elevation: 0 | Water Body Id:
Minor Basin: POTOMAC | ECO Region:
RF1 Index: 02070007001 | RF1 Mile Point: 0.290 | Distance from RF1: 0.00 | On/Off RF1: ON
RF3 Index: 02070004000203.15 | RF3 Mile Point: 4.22 | Distance from RF3: 0.03 | On/Off RF3:
Description:
STATION IS LOCATED ON THE POTOMAC RIVER IN WASHINGTON COUNTY, MARYLAND. SAMPLING IS FROM THE B AND O RR BRIDGE AT HARPER'S FERRY W. VA. 171.5 MILES FROM THE MOUTH OF THE POTOMAC AT MID-RIVER.

Parameter Inventory for Station: HAFE0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/71-02/12/74	51	11.	12.449	25.	1.6	61.685	7.854	3.	5.	19.	24.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/19/71-02/12/74	52	15.	28.19	210.	5.	1536.993	39.205	5.44	10.	33.75	63.5
00400	PH (STANDARD UNITS)	07/19/71-02/12/74	52	7.9	7.848	8.7	7.2	0.119	0.345	7.4	7.6	8.	8.27
00400	CONVERTED PH (STANDARD UNITS)	07/19/71-02/12/74	52	7.9	7.729	8.7	7.2	0.133	0.365	7.4	7.6	8.	8.27
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/71-02/12/74	52	0.013	0.019	0.063	0.002	0.	0.014	0.005	0.01	0.025	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/71-02/12/74	51	80.	86.725	136.	33.	544.363	23.332	61.2	71.	106.	118.2
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/05/74-02/12/74	2	2346.5	2346.5	4600.	93.	10156524.5	3186.93	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/05/74-02/12/74	2	2.816	2.816	3.663	1.968	1.435	1.198	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			654.064								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/19/71-01/22/74	48	925.	2213.542	11000.	240.	10541372.296	3246.748	240.	240.	2400.	11000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/19/71-01/22/74	48	2.958	2.982	4.041	2.38	0.306	0.554	2.38	2.38	3.38	4.041
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			959.355								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-10/30/73	1	46000.	46000.	46000.	46000.	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-10/30/73	1	4.663	4.663	4.663	4.663	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			46000.								
51505	INVALID PARAMETER	08/02/71-08/16/71	2	780.	780.	1100.	460.	204800.	452.548	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	52	6	0.12	14	1	0.07	21	2	0.10	17	3	0.18			
00400	PH	Other-Hi Lim.	9.	52	0	0.00	14	0	0.00	21	0	0.00	17	0	0.00			
		Other-Lo Lim.	6.5	52	0	0.00	14	0	0.00	21	0	0.00	17	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	1	0.50				2	1	0.50						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	48	24	0.50	13	8	0.62	19	10	0.53	16	6	0.38			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	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: HAFE0031

NPS Station ID: HAFE0031 LAT/LON: 39.320670/ -77.731310 Agency: 21MDEXP Date Created: 10/11/80
Location: ALONG RIVER ON HARPERS FERRY SIDE 5.0 MILES BEL FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): SHN0002
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070007 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070007001 RF1 Mile Point: 0.510 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 02070004004500.00 RF3 Mile Point: 0.79 Distance from RF3: 0.06 On/Off RF3:
Description:
02-14-05-13 UPPER POTOMAC RIVER AREA WEST VIRGINIA DRAINAGE SHENANDOAH RIVER MILE IS .20
RECEIVING TRIBUTARY IS POTOMAC RIVER ALONG RIVER ON HARPERS FERRY SIDE 5.0 MILES BELOW GAGE

Parameter Inventory for Station: HAFE0031

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: HAFE0032

NPS Station ID: HAFE0032 LAT/LON: 39.450004/ -77.731115 Agency: 21MDOEP Date Created: 06/06/87
Location: ANTIETAM CR AT GAG STA BEL BURN. BR NR SHARP. FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): ANT0044
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 19.40 On/Off RF1:
RF3 Index: 02070004065600.00 RF3 Mile Point: 2.19 Distance from RF3: 0.05 On/Off RF3:
Description:
ANTIETAM CREEK AT GAG STATION BELOW BRUNSIDE BRIDGE NEAR SHARPSBURG NO DEPTH INFORMATION FOR LAND STATION

Parameter Inventory for Station: HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	62	12.35	13.206	26.3	1.2	48.248	6.946	4.76	6.925	19.375	23.37
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	60	15.25	15.122	34.7	-2.5	87.108	9.333	3.15	7.125	23.625	27.
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	60	72.5	55.417	100.	0.	1706.179	41.306	0.	10.	100.	100.
00035	WIND VELOCITY (MILES PER HOUR)	01/21/91-04/05/95	3	2.2	1.467	2.2	0.	1.613	1.27	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	60	7.15	9.233	30.	1.2	49.327	7.023	2.3	3.55	13.3	20.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	62	536.5	533.855	661.	410.	2844.913	53.338	461.9	497.5	577.75	599.7
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	61	10.	10.13	14.	7.1	3.54	1.882	7.82	8.4	11.85	12.86
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	60	1.7	1.75	7.	0.1	1.427	1.195	0.5	0.925	2.	2.9
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	61	8.2	8.251	9.2	7.7	0.066	0.257	8.	8.1	8.3	8.68
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	61	8.2	8.189	9.2	7.7	0.07	0.264	8.	8.1	8.3	8.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	61	0.006	0.006	0.02	0.001	0.	0.003	0.002	0.005	0.008	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	59	196.	193.407	253.	141.	518.901	22.779	164.	174.	212.	221.
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	62	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	62	13.5	16.968	63.	1.	206.917	14.385	3.	5.	24.25	38.8
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	58	5.95	5.901	7.65	4.2	0.454	0.674	4.896	5.505	6.3	6.737
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	62	0.041	0.056	0.327	0.008	0.003	0.059	0.01	0.024	0.064	0.105
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	61	0.027	0.035	0.15	0.009	0.001	0.03	0.014	0.021	0.035	0.06
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	60	5.4	5.343	6.88	3.7	0.394	0.628	4.462	5.06	5.765	6.075
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	59	0.5	0.52	0.95	0.07	0.039	0.197	0.261	0.366	0.7	0.75
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	61	5.45	5.383	6.9	3.72	0.393	0.627	4.5	5.11	5.8	6.09
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	62	0.185	0.192	0.5	0.01	0.012	0.111	0.073	0.108	0.273	0.379
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	59	0.209	0.216	0.363	0.057	0.007	0.084	0.123	0.138	0.284	0.346
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	62	2.8	3.094	9.4	1.7	1.612	1.27	2.1	2.4	3.4	4.67
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	54	1200.	1805.519	13000.	19.	4721912.405	2172.996	170.	490.	2300.	4100.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	54	3.078	2.999	4.114	1.279	0.284	0.533	2.23	2.69	3.362	3.604
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			998.411								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	54	280.	519.019	3300.	13.	403622.886	635.313	39.5	130.	700.	1350.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	54	2.44	2.418	3.519	1.114	0.319	0.565	1.591	2.114	2.845	3.13
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			261.798								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	62	2.015	2.895	13.15	0.36	6.114	2.473	0.661	1.145	4.22	6.208
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	61	1.35	1.835	10.02	0.11	2.696	1.642	0.504	0.75	2.64	3.91
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	62	0.	0.077	0.59	0.	0.018	0.133	0.	0.	0.103	0.311
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	62	0.18	0.267	1.04	0.	0.073	0.27	0.003	0.06	0.37	0.727
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	61	1.05	1.698	8.56	0.	2.6	1.613	0.324	0.63	2.405	4.03

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

EPA Water Quality Criteria Analysis for Station: HAFE0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	60	0	0.00	15	0	0.00	24	0	0.00	21	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	61	0	0.00	14	0	0.00	25	0	0.00	22	0	0.00			
00400	PH	Other-Hi Lim.	9.	61	1	0.02	15	0	0.00	24	1	0.04	22	0	0.00			
		Other-Lo Lim.	6.5	61	0	0.00	15	0	0.00	24	0	0.00	22	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	61	0	0.00	15	0	0.00	25	0	0.00	21	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	60	0	0.00	15	0	0.00	25	0	0.00	20	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	61	0	0.00	15	0	0.00	25	0	0.00	21	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	54	30	0.56	15	7	0.47	19	11	0.58	20	12	0.60			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	54	35	0.65	15	9	0.60	19	12	0.63	20	14	0.70			

& - 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 1991 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	14	13.6	14.757	23.9	5.8	49.353	7.025	6.4	8.25	22.475	23.65
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	14	14.	16.571	29.	2.	73.495	8.573	3.25	11.375	24.5	28.
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	14	52.5	50.357	100.	0.	1878.709	43.344	0.	7.5	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	13	11.8	10.431	21.	2.8	28.366	5.326	3.16	4.9	13.9	18.72
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	14	548.5	535.571	620.	410.	3753.033	61.262	443.	481.75	588.25	609.5
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	14	9.65	9.593	12.3	7.1	3.673	1.917	7.25	7.675	11.45	12.15
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	13	1.3	1.423	3.2	0.5	0.899	0.948	0.5	0.55	2.	3.16
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	14	8.2	8.207	8.8	8.	0.036	0.19	8.	8.1	8.2	8.55
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	14	8.2	8.178	8.8	8.	0.037	0.192	8.	8.1	8.2	8.55
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	14	0.006	0.007	0.01	0.002	0.	0.002	0.003	0.006	0.008	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	12	197.	195.083	253.	141.	897.356	29.956	147.9	170.25	211.75	245.2
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	14	12.5	13.5	30.	2.	66.885	8.178	3.	6.5	19.25	27.5
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	13	5.95	6.163	7.65	4.7	0.677	0.823	4.9	5.575	6.825	7.41
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	14	0.046	0.056	0.2	0.008	0.002	0.046	0.01	0.036	0.069	0.138
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	13	0.024	0.026	0.05	0.012	0.	0.01	0.014	0.018	0.033	0.046
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	13	5.49	5.505	6.88	4.46	0.5	0.707	4.468	4.96	6.03	6.64
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	13	0.65	0.602	0.95	0.07	0.06	0.245	0.122	0.475	0.75	0.89
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	14	5.6	5.543	6.9	4.5	0.458	0.677	4.5	5.05	6.025	6.6
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	14	0.25	0.233	0.5	0.01	0.03	0.172	0.01	0.063	0.4	0.45
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	13	0.231	0.234	0.349	0.114	0.008	0.091	0.122	0.14	0.321	0.348
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	14	2.95	3.771	9.4	1.9	4.519	2.126	1.95	2.375	5.125	7.95
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	11	1700.	1851.727	4900.	19.	1977422.818	1406.209	107.2	490.	2300.	4580.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	11	3.23	3.035	3.69	1.279	0.438	0.662	1.556	2.69	3.362	3.656
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1083.686								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	220.	391.364	1300.	13.	221547.855	470.689	15.	49.	460.	1300.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	2.342	2.248	3.114	1.114	0.423	0.651	1.164	1.69	2.663	3.114
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			176.937								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	14	2.315	3.449	13.15	0.44	11.422	3.38	0.48	1.228	4.975	9.765
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	13	1.5	2.523	10.02	0.52	6.478	2.545	0.612	0.885	3.215	7.688
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	14	0.085	0.089	0.32	0.	0.01	0.098	0.	0.	0.15	0.26
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	14	0.26	0.305	0.96	0.	0.07	0.265	0.005	0.14	0.383	0.845
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	13	1.	1.755	5.13	0.	2.613	1.617	0.128	0.625	2.7	4.89

** - Less 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 HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	12	13.	12.767	24.4	4.5	38.515	6.206	4.83	6.425	18.225	22.87
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	12	15.	14.792	28.	5.	56.703	7.53	5.45	7.	20.75	26.8
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	11	75.	58.636	100.	0.	1835.455	42.842	0.	5.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	12	6.	8.083	22.	2.2	34.554	5.878	2.26	4.3	12.35	19.72
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	12	556.	551.417	600.	498.	1482.265	38.5	499.5	516.25	583.75	598.8
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	12	9.55	10.017	13.1	7.4	2.772	1.665	7.58	9.15	11.475	12.8
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	11	1.4	2.273	7.	0.5	4.226	2.056	0.5	0.7	2.9	6.58
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	12	8.3	8.358	8.9	8.	0.074	0.271	8.	8.2	8.5	8.84
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	12	8.3	8.289	8.9	8.	0.079	0.281	8.	8.2	8.5	8.84
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	12	0.005	0.005	0.01	0.001	0.	0.003	0.001	0.003	0.006	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	12	192.	191.667	221.	167.	442.242	21.03	167.	171.	214.75	219.8
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	14.5	16.667	40.	5.	134.061	11.578	5.	5.75	27.	36.4
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	11	6.1	6.109	6.65	5.75	0.06	0.245	5.78	5.9	6.25	6.58
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	12	0.064	0.085	0.232	0.024	0.005	0.074	0.024	0.028	0.104	0.232
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.031	0.065	0.15	0.02	0.003	0.053	0.021	0.026	0.123	0.15
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	5.525	5.503	5.87	5.15	0.06	0.245	5.15	5.273	5.695	5.84
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	11	0.55	0.564	0.9	0.25	0.03	0.172	0.28	0.5	0.7	0.86

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Annual Analysis for 1992 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	12	5.55	5.567	6.	5.3	0.055	0.235	5.3	5.325	5.775	5.94
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	12	0.18	0.187	0.3	0.09	0.004	0.064	0.093	0.155	0.2	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	11	0.194	0.211	0.311	0.153	0.003	0.052	0.154	0.16	0.256	0.304
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	2.75	2.825	3.8	2.1	0.291	0.54	2.16	2.425	3.25	3.77
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	10	720.	2101.	13000.	110.	15333165.556	3915.759	122.	230.	2300.	11930.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	10	2.834	2.879	4.114	2.041	0.385	0.62	2.073	2.362	3.362	4.039
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			756.603								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	10	230.	498.6	2300.	13.	467093.156	683.442	15.	105.75	722.5	2149.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	10	2.362	2.345	3.362	1.114	0.43	0.656	1.154	1.965	2.858	3.315
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			221.542								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	1.68	1.88	4.94	0.58	1.338	1.157	0.637	1.123	2.115	4.34
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.085	1.189	2.84	0.37	0.504	0.71	0.409	0.625	1.5	2.57
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.	0.013	0.07	0.	0.001	0.024	0.	0.	0.025	0.064
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.15	0.173	0.72	0.	0.041	0.201	0.	0.01	0.23	0.591
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	0.93	1.056	3.28	0.07	0.745	0.863	0.142	0.423	1.458	2.824

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

Annual Analysis for 1993 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	12	11.4	12.75	24.2	3.7	52.188	7.224	4.3	6.25	19.325	23.81
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	10	15.	15.96	27.1	3.	95.605	9.778	3.2	6.875	27.	27.09
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	12	40.	49.167	100.	0.	1662.879	40.778	0.	12.5	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	11	9.7	8.891	19.	1.4	37.521	6.125	1.58	2.4	13.3	18.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	12	536.	531.75	661.	421.	4215.295	64.925	431.5	492.	571.25	643.6
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	11	10.7	10.773	13.5	7.8	4.53	2.128	7.86	8.8	12.9	13.42
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	12	1.3	1.225	2.1	0.1	0.378	0.615	0.22	0.625	1.725	2.07
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	12	8.35	8.401	9.2	8.1	0.098	0.313	8.1	8.2	8.553	9.05
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	12	8.347	8.325	9.2	8.1	0.105	0.323	8.1	8.2	8.553	9.05
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	12	0.004	0.005	0.008	0.001	0.	0.002	0.001	0.003	0.006	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	11	200.	191.818	217.	145.	553.164	23.519	148.8	174.	215.	216.8
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	17.5	16.	36.	1.	158.364	12.584	1.3	3.25	28.5	34.8
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	12	6.13	6.176	6.9	4.7	0.351	0.592	5.042	5.913	6.66	6.849
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	12	0.045	0.043	0.085	0.011	0.001	0.023	0.011	0.025	0.061	0.08
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.024	0.032	0.09	0.015	0.	0.02	0.017	0.021	0.039	0.075
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	5.655	5.6	6.18	3.99	0.346	0.588	4.377	5.405	6.013	6.171
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	12	0.55	0.546	0.77	0.3	0.029	0.17	0.312	0.363	0.7	0.75
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	12	5.68	5.63	6.2	4.	0.356	0.597	4.39	5.425	6.038	6.197
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	12	0.155	0.161	0.27	0.05	0.005	0.072	0.059	0.103	0.228	0.261
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	11	0.152	0.184	0.35	0.057	0.008	0.088	0.067	0.12	0.245	0.337
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	2.9	2.933	3.8	2.	0.355	0.596	2.06	2.425	3.55	3.77
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	11	2200.	2256.364	4900.	490.	2906685.455	1704.9	490.	640.	3300.	4900.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	11	3.342	3.207	3.69	2.69	0.159	0.399	2.69	2.806	3.519	3.69
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1611.679								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	460.	825.455	3300.	110.	895027.273	946.059	114.	230.	1300.	2920.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	2.663	2.688	3.519	2.041	0.22	0.469	2.056	2.362	3.114	3.444
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			487.757								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	1.635	2.523	6.31	0.58	3.965	1.991	0.598	0.835	4.22	6.037
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.125	1.613	4.68	0.11	1.948	1.396	0.188	0.513	2.665	4.263
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.	0.015	0.07	0.	0.001	0.025	0.	0.	0.02	0.067
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.14	0.213	0.78	0.02	0.051	0.226	0.026	0.053	0.363	0.681
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.13	1.392	3.25	0.34	0.993	0.997	0.361	0.488	2.353	3.025

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

Annual Analysis for 1994 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	12	12.6	12.908	24.	1.2	55.99	7.483	1.65	6.45	20.525	23.43
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	12	17.5	15.85	34.7	-2.5	129.425	11.376	0.3	1.375	23.5	32.39
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	12	77.5	63.75	100.	0.	1614.205	40.177	3.	20.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	12	6.25	9.775	29.	1.2	75.975	8.716	1.71	3.7	13.225	27.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	12	536.	524.583	602.	435.	3412.083	58.413	435.6	472.25	563.75	601.4
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	12	9.8	10.258	14.	7.9	4.199	2.049	7.96	8.725	11.55	13.97
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	12	2.	1.875	5.3	0.5	1.648	1.284	0.5	0.75	2.075	4.46
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	11	8.2	8.255	8.7	8.	0.031	0.175	8.02	8.2	8.3	8.62
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	11	8.2	8.227	8.7	8.	0.032	0.178	8.02	8.2	8.3	8.62
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	11	0.006	0.006	0.01	0.002	0.	0.002	0.003	0.005	0.006	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	12	199.5	192.333	224.	151.	628.788	25.076	152.8	173.5	212.5	223.1
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	12.5	19.75	63.	2.	372.75	19.307	2.3	5.	33.5	57.9
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	11	5.89	5.826	6.6	4.73	0.249	0.499	4.888	5.54	6.11	6.546
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	12	0.03	0.048	0.141	0.01	0.002	0.04	0.011	0.021	0.071	0.128
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.027	0.029	0.044	0.016	0.	0.009	0.018	0.022	0.037	0.043
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	11	5.26	5.37	6.16	4.03	0.364	0.603	4.204	5.13	5.91	6.118
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	12	0.376	0.421	0.69	0.117	0.03	0.174	0.155	0.33	0.585	0.684
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	11	5.3	5.399	6.2	4.06	0.366	0.605	4.232	5.15	5.95	6.154
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	12	0.155	0.163	0.31	0.08	0.006	0.074	0.083	0.093	0.223	0.292
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	12	0.199	0.202	0.363	0.106	0.006	0.078	0.111	0.127	0.261	0.338
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	2.6	2.75	5.	2.1	0.605	0.778	2.1	2.25	2.95	4.4
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	11	1700.	2229.091	7900.	130.	4126369.091	2031.347	262.	1300.	2300.	6880.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	11	3.23	3.194	3.898	2.114	0.191	0.437	2.271	3.114	3.362	3.808
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1561.945								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	490.	652.091	1700.	23.	323378.091	568.663	52.4	230.	790.	1700.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	2.69	2.616	3.23	1.362	0.272	0.522	1.535	2.362	2.898	3.23
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			412.678								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	2.305	3.208	7.62	1.09	5.157	2.271	1.096	1.598	5.235	7.368
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.715	2.024	5.08	0.6	1.976	1.406	0.645	1.013	3.043	4.753
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.	0.103	0.52	0.	0.031	0.176	0.	0.	0.245	0.46
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.18	0.324	1.04	0.	0.091	0.302	0.018	0.163	0.52	0.935
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.18	1.822	5.78	0.34	2.624	1.62	0.391	0.785	2.488	5.219

** - Less 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 HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	12	10.35	12.592	26.3	2.9	58.528	7.65	3.44	6.	19.2	24.98
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	12	7.	12.333	32.	-1.	103.515	10.174	2.65	5.625	19.875	29.6
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	11	70.	56.364	100.	0.	2005.455	44.782	0.	0.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	12	4.45	8.858	30.	1.2	85.259	9.234	1.44	2.425	15.725	27.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	12	514.	525.667	586.	458.	1719.333	41.465	466.7	497.	572.5	582.7
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	12	10.15	10.15	12.7	8.	3.068	1.752	8.03	8.3	11.825	12.55
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	12	2.	2.025	2.3	2.	0.007	0.087	2.	2.	2.	2.21
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	12	8.1	8.042	8.3	7.7	0.03	0.173	7.73	7.925	8.175	8.27
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	12	8.1	8.008	8.3	7.7	0.031	0.177	7.73	7.925	8.175	8.27
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	12	0.008	0.01	0.02	0.005	0.	0.004	0.005	0.007	0.012	0.019
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	12	191.	196.	223.	168.	247.273	15.725	172.8	186.	210.	221.5
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	14.5	19.5	55.	1.	371.364	19.271	1.9	5.	35.	54.4
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	11	5.14	5.158	6.03	4.2	0.241	0.491	4.314	4.91	5.46	5.972
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	12	0.026	0.049	0.327	0.008	0.008	0.089	0.008	0.009	0.043	0.245
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.025	0.023	0.038	0.009	0.	0.011	0.009	0.012	0.033	0.037
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	4.68	4.727	5.54	3.7	0.288	0.536	3.841	4.353	5.21	5.504
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	11	0.407	0.458	0.819	0.261	0.031	0.175	0.268	0.32	0.567	0.794

** - Less 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 HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	12	4.695	4.751	5.56	3.72	0.289	0.537	3.864	4.378	5.24	5.527
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	12	0.205	0.209	0.4	0.01	0.013	0.116	0.04	0.113	0.308	0.379
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	12	0.293	0.245	0.358	0.123	0.01	0.1	0.124	0.132	0.333	0.355
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	2.8	3.075	6.5	1.7	1.528	1.236	1.85	2.325	3.525	5.69
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	11	700.	616.273	1300.	79.	149472.818	386.617	97.2	170.	790.	1260.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	11	2.845	2.671	3.114	1.898	0.148	0.385	1.964	2.23	2.898	3.099
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			468.686								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	170.	225.727	700.	46.	43127.818	207.672	46.6	49.	330.	658.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	2.23	2.186	2.845	1.663	0.168	0.41	1.668	1.69	2.519	2.814
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			153.515								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	2.815	3.321	10.43	0.36	7.976	2.824	0.465	1.033	4.38	9.092
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.465	1.768	5.05	0.2	2.098	1.449	0.296	0.613	2.765	4.612
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.08	0.163	0.59	0.	0.037	0.193	0.	0.	0.318	0.515
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.135	0.315	1.	0.	0.118	0.344	0.009	0.06	0.585	0.958
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.685	2.462	8.56	0.25	5.762	2.4	0.253	0.66	3.98	7.216

** - Less 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 10/31 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	15	17.9	17.947	26.3	11.	20.526	4.531	11.06	13.6	22.1	24.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	14	20.	20.4	32.	12.	27.032	5.199	13.5	16.75	23.	29.55
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	15	60.	51.333	100.	0.	1908.81	43.69	0.	0.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	15	2.9	5.327	22.	2.	28.509	5.339	2.12	2.4	5.	16.06
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	15	584.	585.333	661.	535.	923.095	30.382	548.2	563.	602.	636.4
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	14	8.95	8.964	10.4	7.7	0.701	0.837	7.85	8.2	9.575	10.3
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	15	8.3	8.281	8.7	8.	0.033	0.183	8.	8.2	8.4	8.58
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	15	8.3	8.247	8.7	8.	0.035	0.186	8.	8.2	8.4	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	15	0.005	0.006	0.01	0.002	0.	0.002	0.003	0.004	0.006	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	15	215.	216.2	253.	199.	142.029	11.918	202.	211.	218.	235.6
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	15	5.	10.	31.	2.	78.143	8.84	3.2	4.	12.	29.2
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	15	5.99	6.017	6.85	5.14	0.225	0.474	5.176	5.75	6.3	6.748
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	15	0.024	0.025	0.048	0.01	0.	0.015	0.01	0.011	0.041	0.048
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	15	0.021	0.022	0.041	0.011	0.	0.009	0.012	0.016	0.03	0.036
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	15	5.54	5.514	6.15	4.29	0.256	0.506	4.578	5.28	5.95	6.108
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	15	0.49	0.48	0.819	0.117	0.032	0.178	0.197	0.4	0.563	0.778
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	15	5.56	5.537	6.19	4.32	0.257	0.507	4.602	5.3	5.97	6.136
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	15	0.27	0.294	0.5	0.18	0.009	0.093	0.192	0.23	0.4	0.44
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	15	0.279	0.269	0.35	0.131	0.005	0.068	0.148	0.231	0.334	0.349
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	15	2.9	3.067	6.5	1.9	1.171	1.082	2.02	2.5	3.3	4.88
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	15	950.	1803.333	13000.	170.	9994509.524	3161.409	344.	490.	1300.	6580.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	15	2.978	2.99	4.114	2.23	0.185	0.43	2.49	2.69	3.114	3.663
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			977.588								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	14	0.6	0.767	2.09	0.37	0.21	0.458	0.37	0.503	1.003	1.645
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	14	0.535	0.554	1.05	0.	0.082	0.287	0.13	0.333	0.785	0.97

** - Less 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: 11/01 to 3/20 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	25	6.1	6.556	13.	1.2	7.476	2.734	2.82	4.8	8.15	10.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	24	6.75	7.125	27.	-2.5	43.918	6.627	1.5	4.625	7.625	17.5
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	23	90.	67.174	100.	0.	1615.514	40.193	0.	20.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	24	5.95	8.538	29.	1.2	54.129	7.357	1.3	3.925	11.625	22.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	25	520.	520.16	600.	410.	2931.89	54.147	429.4	497.	563.	591.6
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	25	12.	11.972	14.	10.	1.24	1.113	10.4	11.2	12.8	13.66
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	24	8.25	8.346	9.2	7.8	0.111	0.334	8.	8.1	8.575	8.85
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	24	8.247	8.245	9.2	7.8	0.122	0.349	8.	8.1	8.575	8.85
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	24	0.006	0.006	0.016	0.001	0.	0.004	0.001	0.003	0.008	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	24	190.	184.292	223.	141.	505.259	22.478	148.	167.	199.	218.5
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	25	9.	13.88	63.	1.	203.61	14.269	1.6	4.5	19.5	33.4
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	24	5.895	5.84	7.65	4.7	0.584	0.764	4.715	5.265	6.138	6.975
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	25	0.052	0.067	0.232	0.008	0.004	0.064	0.008	0.026	0.08	0.213
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	25	0.03	0.037	0.15	0.009	0.001	0.035	0.013	0.024	0.035	0.086
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	25	5.26	5.29	6.88	3.99	0.471	0.686	4.288	4.89	5.62	6.22
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	24	0.45	0.512	0.95	0.2	0.043	0.207	0.271	0.341	0.7	0.75
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	25	5.3	5.326	6.9	4.	0.471	0.686	4.324	4.91	5.65	6.24
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	25	0.12	0.149	0.4	0.01	0.007	0.086	0.064	0.095	0.19	0.292
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	24	0.155	0.181	0.363	0.057	0.006	0.077	0.107	0.125	0.236	0.303
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	25	2.7	3.02	5.2	1.7	0.924	0.961	2.06	2.4	3.5	5.04
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	19	1300.	1668.947	4900.	130.	1890787.719	1375.059	230.	490.	2800.	3300.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	19	3.114	3.032	3.69	2.114	0.218	0.467	2.362	2.69	3.447	3.519
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1075.55								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	25	1.5	2.384	10.02	0.11	4.515	2.125	0.5	1.025	3.365	4.84

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

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	25	1.09	1.678	5.78	0.07	2.034	1.426	0.304	0.665	2.345	4.056

** - Less 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: 3/21 to 7/31 - Station HAFE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/21/85-12/06/95	22	17.25	17.532	24.4	8.7	29.618	5.442	9.53	12.375	22.5	24.14
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	22	23.25	20.486	34.7	3.	58.09	7.622	11.65	14.5	27.	28.7
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	22	40.	45.909	100.	0.	1570.563	39.63	0.	8.75	80.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	21	13.3	12.819	30.	3.	37.782	6.147	4.14	8.4	15.65	20.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/21/85-12/06/95	22	501.5	514.318	598.	456.	1781.656	42.21	461.9	477.5	548.5	582.6
00300	OXYGEN, DISSOLVED MG/L	01/21/85-12/06/95	22	8.55	8.777	11.3	7.1	1.403	1.184	7.4	7.875	9.525	10.77
00400	PH (STANDARD UNITS)	01/21/85-12/06/95	22	8.2	8.127	8.3	7.7	0.017	0.132	7.93	8.1	8.2	8.2
00400	CONVERTED PH (STANDARD UNITS)	01/21/85-12/06/95	22	8.2	8.104	8.3	7.7	0.018	0.134	7.93	8.1	8.2	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/85-12/06/95	22	0.006	0.008	0.02	0.005	0.	0.003	0.006	0.006	0.008	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/21/85-12/06/95	20	183.5	187.25	227.	164.	312.724	17.684	166.2	173.25	200.	210.8
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	22	23.5	25.227	55.	2.	198.755	14.098	6.5	15.	36.	49.1
00600	NITROGEN, TOTAL (MG/L AS N)	01/21/85-12/06/95	19	6.1	5.887	6.8	4.2	0.501	0.708	4.77	5.4	6.33	6.73
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/21/85-12/06/95	22	0.049	0.065	0.327	0.008	0.004	0.066	0.026	0.032	0.066	0.131
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	21	0.027	0.041	0.13	0.014	0.001	0.031	0.021	0.022	0.046	0.1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	20	5.33	5.281	5.98	3.7	0.41	0.641	4.212	4.878	5.845	5.955
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/21/85-12/06/95	20	0.597	0.558	0.9	0.07	0.04	0.199	0.268	0.405	0.698	0.797
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	21	5.4	5.34	6.	3.72	0.411	0.641	4.286	4.91	5.875	6.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/21/85-12/06/95	22	0.17	0.171	0.4	0.01	0.011	0.106	0.022	0.09	0.24	0.321
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/85-12/06/95	20	0.203	0.22	0.358	0.12	0.007	0.085	0.125	0.141	0.31	0.345
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	22	2.8	3.195	9.4	2.	2.828	1.682	2.13	2.375	3.175	5.69
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/21/85-12/06/95	20	1700.	1936.9	7900.	19.	3979177.358	1994.788	82.1	490.	2300.	4900.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/21/85-12/06/95	20	3.23	2.975	3.898	1.279	0.448	0.67	1.912	2.69	3.362	3.69
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			945.082								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	22	1.61	1.89	5.05	0.5	1.291	1.136	0.765	0.953	2.728	3.339
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	22	1.605	2.45	8.56	0.32	3.589	1.895	0.545	1.225	3.415	4.815

** - Less 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: HAFE0033

NPS Station ID: HAFE0033 | LAT/LON: 39.450282/ -77.731115 | Agency: 112WRD | Date Created: / /
Location: ANTIETAM C NR SHARPSBURG, MD | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 01619500
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 0.60 | On/Off RF1:
RF3 Index: 02070004001118.71 | RF3 Mile Point: 20.58 | Distance from RF3: 0.04 | On/Off RF3:
Description:
ACTIVATION DATE: JULY 1, 1969. SAMPLED BY USGS. FIELD ANALYSIS BY USGS. OTHER COOPERATING AGENCIES: FWPCA. STATION LOCATION: ANTIETAM CR NEAR SHARPSBURG, MD. NEAREST GAGING STATION: ANTIETAM CR NEAR SHARPSBURG, MD. ON LEFT BANK 400 FEET DOWNSTREAM FROM BURNSIDE BRIDGE, ONE MILE SE OF SHARPSBURG, WASHINGTON COUNTY. DRAINAGE AREA: ABOVE GAGING STATION, 281 SQUARE MILES. PERIOD OF RECORD: JUNE 1897 TO SEPT. 1905, AUG. 1928 TO PRESENT.

Parameter Inventory for Station: HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	360	12.35	12.649	28.	0.	51.112	7.149	3.5	6.1	19.	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	250	16.	15.052	34.5	-8.	113.992	10.677	4.	9.	25.	28.45
00025	BAROMETRIC PRESSURE (MM OF HG)	06/07/94-06/07/94	1	749.	749.	749.	749.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	89	187.	252.124	855.	54.	34567.019	185.922	82.	123.	324.	500.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	352	218.	312.153	1260.	9.	64032.119	253.046	99.	134.25	397.5	684.4
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	249	2.74	2.869	4.96	2.08	0.308	0.555	2.31	2.44	3.115	3.58
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/08/69-12/03/73	9	4.	10.222	60.	1.	353.944	18.813	1.	2.	7.5	60.
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	106	3.	4.495	50.	0.	34.555	5.878	0.	1.	5.	9.3
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	10/08/69-09/23/71	3	1.	0.667	1.	0.	0.333	0.577	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	155	452.	447.787	570.	285.	3103.857	55.712	373.6	414.	488.	510.
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	66	10.05	10.286	14.8	6.8	3.516	1.875	7.8	8.9	11.925	12.75
00310	BOD, 5 DAY, 20 DEG C MG/L	10/08/69-12/03/73	9	1.5	1.667	3.3	0.7	0.68	0.825	0.7	1.	2.2	3.3
00400p	PH (STANDARD UNITS)	08/09/63-06/07/94	152	7.95	7.888	8.7	6.8	0.139	0.373	7.3	7.7	8.175	8.3
00400p	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	152	7.947	7.707	8.7	6.8	0.172	0.415	7.3	7.7	8.175	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	152	0.011	0.02	0.158	0.002	0.001	0.023	0.005	0.007	0.02	0.05
00403	PH, LAB, STANDARD UNITS SU	01/20/81-04/02/86	10	8.1	8.04	8.4	7.5	0.06	0.246	7.53	7.95	8.2	8.38
00403	CONVERTED PH, LAB, STANDARD UNITS	01/20/81-04/02/86	10	8.1	7.967	8.4	7.5	0.066	0.258	7.53	7.95	8.2	8.38
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/81-04/02/86	10	0.008	0.011	0.032	0.004	0.	0.008	0.004	0.006	0.011	0.03
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	101	3.3	5.777	41.	0.6	47.667	6.904	1.42	2.25	6.9	10.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	122	174.5	170.164	212.	102.	597.576	24.445	134.5	160.	189.	198.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/12/73-12/03/73	4	0.15	0.825	3.	0.	2.123	1.457	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	120	212.5	206.675	258.	124.	907.549	30.126	162.6	192.5	229.5	240.9
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	102	0.	0.461	9.	0.	2.687	1.639	0.	0.	0.	0.7
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	06/07/94-06/07/94	1	234.	234.	234.	234.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/08/69-05/30/73	7	16.	37.	173.	3.	3668.	60.564	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	08/31/76-08/31/76	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00603	NITROGEN TOTAL, BOTTOM DEPOSITS (MG/KG-N DRY WGT)	05/17/72-05/17/72	1	1.51	1.51	1.51	1.51	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-08/31/76	1	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/20/72-06/07/94	4	0.065	0.16	0.47	0.04	0.043	0.207	**	**	**	**

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Parameter Inventory for Station: HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/03/73-08/31/76	2	0.19	0.19	0.33	0.05	0.039	0.198	**	**	**	**
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	05/17/72-08/31/76	2	18.6	18.6	37.	0.2	677.12	26.022	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/30/73-06/07/94	3	0.03	0.027	0.043	0.008	0.	0.018	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/17/73-08/31/76	6	0.03	0.034	0.07	0.003	0.001	0.029	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/04/65-09/12/73	53	3.2	3.112	4.5	0.07	0.801	0.895	1.92	2.7	3.8	4.06
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/17/73-08/31/76	6	3.3	2.957	4.1	0.54	1.576	1.255	**	**	**	**
00621	NITRATE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	05/17/72-05/17/72	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	06/07/94-06/07/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-06/07/94	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	05/17/72-08/31/76	2	455.755	455.755	910.	1.51	412677.04	642.399	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/17/73-04/02/86	38	3.6	3.601	4.8	0.54	0.523	0.723	2.9	3.275	4.	4.51
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/73-06/07/94	5	4.5	4.3	6.	2.3	1.945	1.395	**	**	**	**
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	08/31/76-08/31/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/19/65-09/19/72	9	1.3	1.241	2.8	0.12	1.013	1.007	0.12	0.36	2.2	2.8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/16/83-03/16/83	1	0.37	0.37	0.37	0.37	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/69-06/07/94	43	0.29	0.324	0.96	0.1	0.034	0.184	0.13	0.18	0.4	0.604
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/07/94-06/07/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	05/17/72-08/31/76	2	180.65	180.65	360.	1.3	64332.845	253.639	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/16/83-06/07/94	3	0.11	0.107	0.12	0.09	0.	0.015	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	10/08/69-12/03/73	9	0.	0.008	0.04	0.	0.	0.013	0.	0.	0.01	0.04
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	128	212.5	212.016	261.	130.	743.842	27.273	177.	198.25	232.	241.1
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	121	42.	41.397	65.	0.	87.475	9.353	30.	37.	47.	52.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	130	64.	63.115	83.	36.	75.669	8.699	52.1	58.75	69.	72.9
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	130	13.	13.344	35.	3.9	9.88	3.143	10.	12.	15.	16.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	128	8.	9.63	98.	3.9	71.635	8.464	5.99	6.7	11.	13.
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	126	0.2	0.293	2.8	0.1	0.063	0.251	0.2	0.2	0.3	0.4
00932	SODIUM, PERCENT	08/09/63-03/16/83	125	8.	8.304	25.	5.	7.1	2.665	6.	7.	9.	11.
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/09/65-08/09/65	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	127	3.3	3.408	6.5	2.5	0.416	0.645	2.6	3.	3.8	4.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	131	14.	15.26	27.	7.	16.394	4.049	11.	12.	17.	21.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	131	28.	28.519	42.	10.	17.621	4.198	24.	26.	31.	34.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	130	0.3	0.275	1.	0.	0.01	0.101	0.2	0.2	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	129	6.7	6.395	11.	0.2	3.612	1.901	3.6	5.3	7.7	8.4
01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-08/31/76	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	05/17/72-08/31/76	2	5.	5.	8.	2.	18.	4.243	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/08/69-05/30/73	7	0.	0.429	1.	0.	0.286	0.535	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/12/73-08/31/76	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	2	0.405	0.405	0.81	0.	0.328	0.573	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	2	11.	11.	20.	2.	162.	12.728	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/19/72-03/06/73	2	10.	10.	20.	0.	200.	14.142	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	12/05/72-12/05/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/08/69-08/31/76	7 ##	0.	2.857	10.	0.	23.81	4.88	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	08/31/76-08/31/76	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/31/76-08/31/76	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/08/69-05/30/73	7	0.	4.857	21.	0.	62.143	7.883	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/12/73-08/31/76	3 ##	10.	6.667	10.	0.	33.333	5.774	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	05/17/72-08/31/76	2	6.	6.	10.	2.	32.	5.657	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/19/78-09/25/85	10	255.	240.	410.	80.	14622.222	120.922	84.	120.	335.	410.
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	105	180.	308.095	1600.	0.	97896.337	312.884	70.	110.	385.	764.
01046	IRON, DISSOLVED (UG/L AS FE)	11/07/67-04/02/86	28	20.	23.036	90.	4.	425.591	20.63	5.	5.	32.5	51.
01049	LEAD, DISSOLVED (UG/L AS PB)	10/08/69-05/30/73	7	1.	4.143	15.	0.	35.143	5.928	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/12/73-08/31/76	3	2.	4.667	11.	1.	30.333	5.508	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	05/17/72-08/31/76	2	21.	21.	30.	12.	162.	12.728	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	05/17/72-08/31/76	2	430.	430.	630.	230.	80000.	282.843	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/15/76-09/25/85	16	20.	20.	40.	0.	146.667	12.111	0.	10.	30.	33.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	113	30.	37.372	380.	0.	2769.807	52.629	0.	10.	45.	66.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/69-04/02/86	27	10.	25.63	350.	2.	4329.473	65.799	4.6	5.	20.	28.6
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	2	6.	6.	10.	2.	32.	5.657	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/31/76-08/31/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/08/69-05/30/73	7	40.	57.143	150.	20.	1990.476	44.615	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/12/73-08/31/76	3 ##	10.	36.667	100.	0.	3033.333	55.076	**	**	**	**

** - Less 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: HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	05/17/72-08/31/76	2	41.5	41.5	60.	23.	684.5	26.163	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/12/73-08/31/76	3 ##	50.	103.333	210.	50.	8533.333	92.376	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/08/69-05/30/73	7	100.	114.286	300.	0.	10595.238	102.933	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-08/31/76	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	05/17/72-08/31/76	2	5695.	5695.	11000.	390.	56286050.	7502.403	**	**	**	**
01501	ALPHA, TOTAL	10/08/69-09/23/71	3	1.	1.533	3.	0.6	1.653	1.286	**	**	**	**
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/08/69-09/23/71	3	1.2	1.583	3.	0.55	1.611	1.269	**	**	**	**
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/08/69-09/23/71	3 ##	0.05	0.133	0.3	0.05	0.021	0.144	**	**	**	**
03501	BETA, TOTAL	10/08/69-09/23/71	3	7.	7.333	9.	6.	2.333	1.528	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/08/69-09/23/71	3	6.	6.	6.8	5.2	0.64	0.8	**	**	**	**
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/08/69-09/23/71	3	0.9	1.133	1.7	0.8	0.243	0.493	**	**	**	**
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	1	0.083	0.083	0.083	0.083	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	06/07/94-06/07/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	57	440.	1448.	12000.	3.	6519176.5	2553.268	36.6	130.	1350.	5040.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	57	2.643	2.597	4.079	0.477	0.596	0.772	1.562	2.114	3.13	3.702
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			395.762								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/31/76-08/31/76	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	08/31/76-08/31/76	1	3.041	3.041	3.041	3.041	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1100.								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/08/69-12/03/73	8	1.5	1.625	4.	0.	1.411	1.188	**	**	**	**
34253	A-BHC-ALPHA DISSUG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34653	P,P'-DDE DISSUG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10/08/69-09/23/71	3	0.08	0.083	0.1	0.07	0.	0.015	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	06/07/94-06/07/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	06/07/94-06/07/94	1	192.	192.	192.	192.	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	06/07/94-06/07/94	1 ##	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	2	12.	12.	20.	4.	128.	11.314	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	15.95	15.95	28.	3.9	290.405	17.041	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	2.05	2.05	3.3	0.8	3.125	1.768	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	28.1	28.1	54.	2.2	1341.62	36.628	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/17/72-08/31/76	2	0.65	0.65	1.3	0.	0.845	0.919	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	06/07/94-06/07/94	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/17/72-08/31/76	2	15.	15.	30.	0.	450.	21.213	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	1 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	06/07/94-06/07/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	09/12/73-12/03/73	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/63-04/02/86	53	288.	280.377	336.	193.	1144.124	33.825	230.8	263.	303.	318.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	123	255.	251.577	306.	167.	905.935	30.099	215.	232.	273.	288.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	128	155.	190.291	559.	45.3	12964.703	113.863	72.76	107.25	254.	358.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	128	0.35	0.353	0.46	0.23	0.002	0.046	0.29	0.32	0.39	0.41
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/19/61-02/19/61	1	86.	86.	86.	86.	0.	0.	**	**	**	**
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	02/19/61-02/19/61	1	87.	87.	87.	87.	0.	0.	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	02/19/61-02/19/61	1	97.	97.	97.	97.	0.	0.	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	02/19/61-02/19/61	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/19/61-02/19/61	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/19/61-02/19/61	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/19/61-02/19/61	1	19.	19.	19.	19.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/19/61-02/19/61	1	43.	43.	43.	43.	0.	0.	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/19/61-02/19/61	1	69.	69.	69.	69.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/31/76-08/31/76	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	09/12/73-12/03/73	4 ##	0.05	0.043	0.06	0.01	0.	0.022	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	07/20/72-09/12/73	3	0.1	0.257	0.61	0.06	0.094	0.307	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/15/72-05/09/72	3	13.	13.333	15.	12.	2.333	1.528	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	91	14.	13.398	20.	0.3	15.998	4.	9.1	11.	16.	17.56
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	05/30/73-09/12/73	2	0.085	0.085	0.14	0.03	0.006	0.078	**	**	**	**
71885	IRON (UG/L AS FE)	10/19/65-09/08/66	8	5.	5.	10.	0.	28.571	5.345	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/13/80-09/25/85	8	1.01	0.981	2.	0.4	0.258	0.508	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	08/31/76-08/31/76	1	15.	15.	15.	15.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/31/76-08/31/76	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	05/17/72-08/31/76	2	0.015	0.015	0.03	0.	0.	0.021	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/04/59-06/07/94	20	274.5	316.65	821.	5.	76926.029	277.355	6.7	51.75	575.25	752.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/04/59-12/05/72	19	508.	872.811	2790.	2.3	784034.157	885.457	3.1	136.	1690.	2320.
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/20/81-08/28/81	3	2.7	2.533	2.9	2.	0.223	0.473	**	**	**	**
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	06/07/94-06/07/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	06/07/94-06/07/94	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/07/94-06/07/94	1 ##	0.01	0.01	0.01	0.01	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: HAFE0033

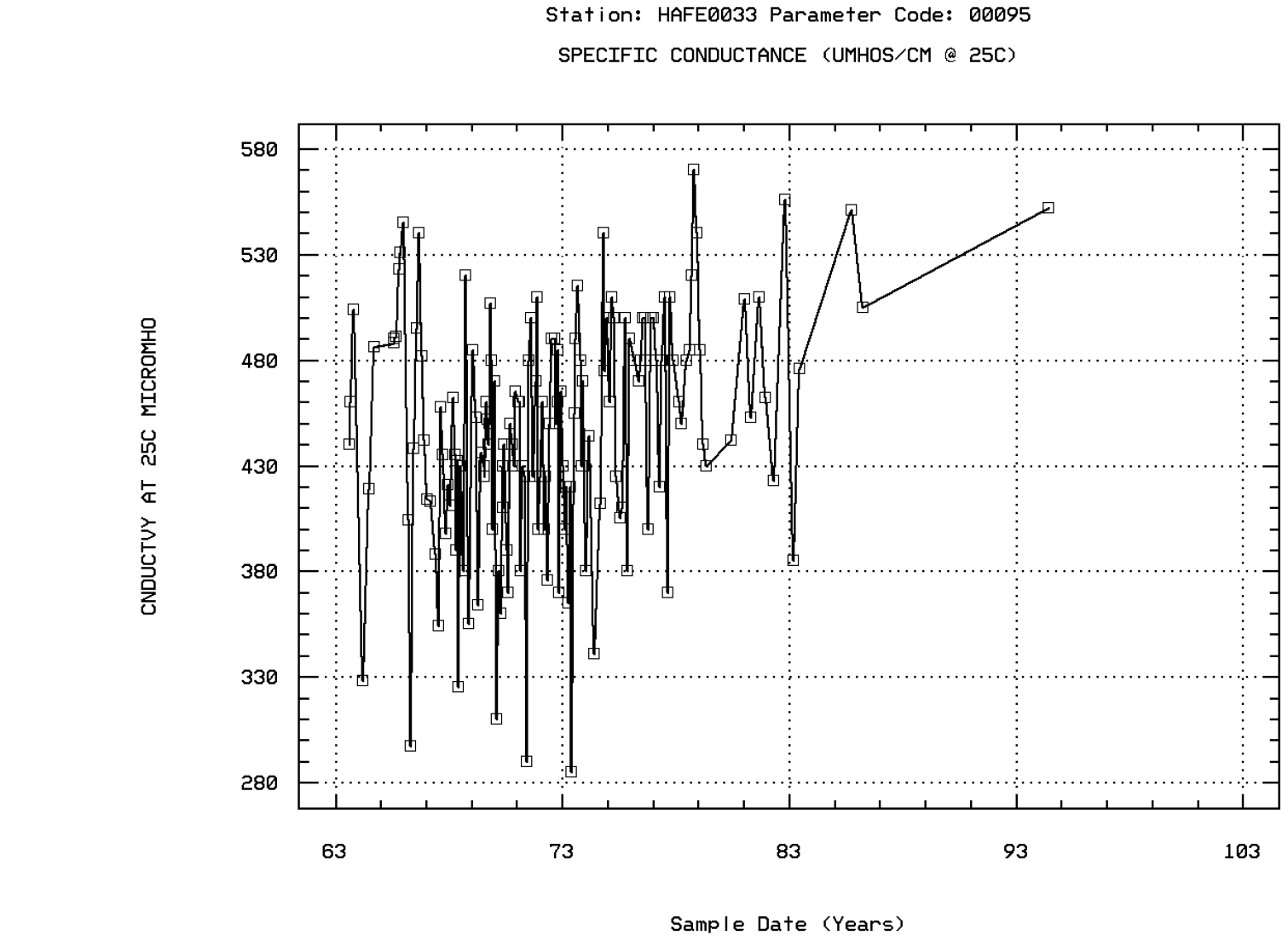
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	1	0.11	5	0	0.00	3	0	0.00	1	1	1.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	66	0	0.00	18	0	0.00	26	0	0.00	22	0	0.00			
00400	PH	Other-Hi Lim.	9.	152	0	0.00	47	0	0.00	54	0	0.00	51	0	0.00			
		Other-Lo Lim.	6.5	152	0	0.00	47	0	0.00	54	0	0.00	51	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	10	0	0.00	3	0	0.00	3	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	3	0	0.00	3	0	0.00	4	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	1	0	0.00				2	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	2	0	0.00	4	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	53	0	0.00	15	0	0.00	20	0	0.00	18	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00	2	0	0.00	4	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	38	0	0.00	11	0	0.00	13	0	0.00	14	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	9	1	0.11	5	0	0.00	3	0	0.00	1	1	1.00			
		Drinking Water	0.2	9	0	0.00	5	0	0.00	3	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	131	0	0.00	39	0	0.00	47	0	0.00	45	0	0.00			
		Drinking Water	250.	131	0	0.00	39	0	0.00	47	0	0.00	45	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	131	0	0.00	39	0	0.00	47	0	0.00	45	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	130	0	0.00	38	0	0.00	47	0	0.00	45	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5.	3	0	0.00	2	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	7	1	0.14	4	1	0.25	2	0	0.00	1	0	0.00			
		Drinking Water	1300.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	1300.	3	0	0.00	2	0	0.00	1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	7	1	0.14	4	1	0.25	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	15.	3	0	0.00	2	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									

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

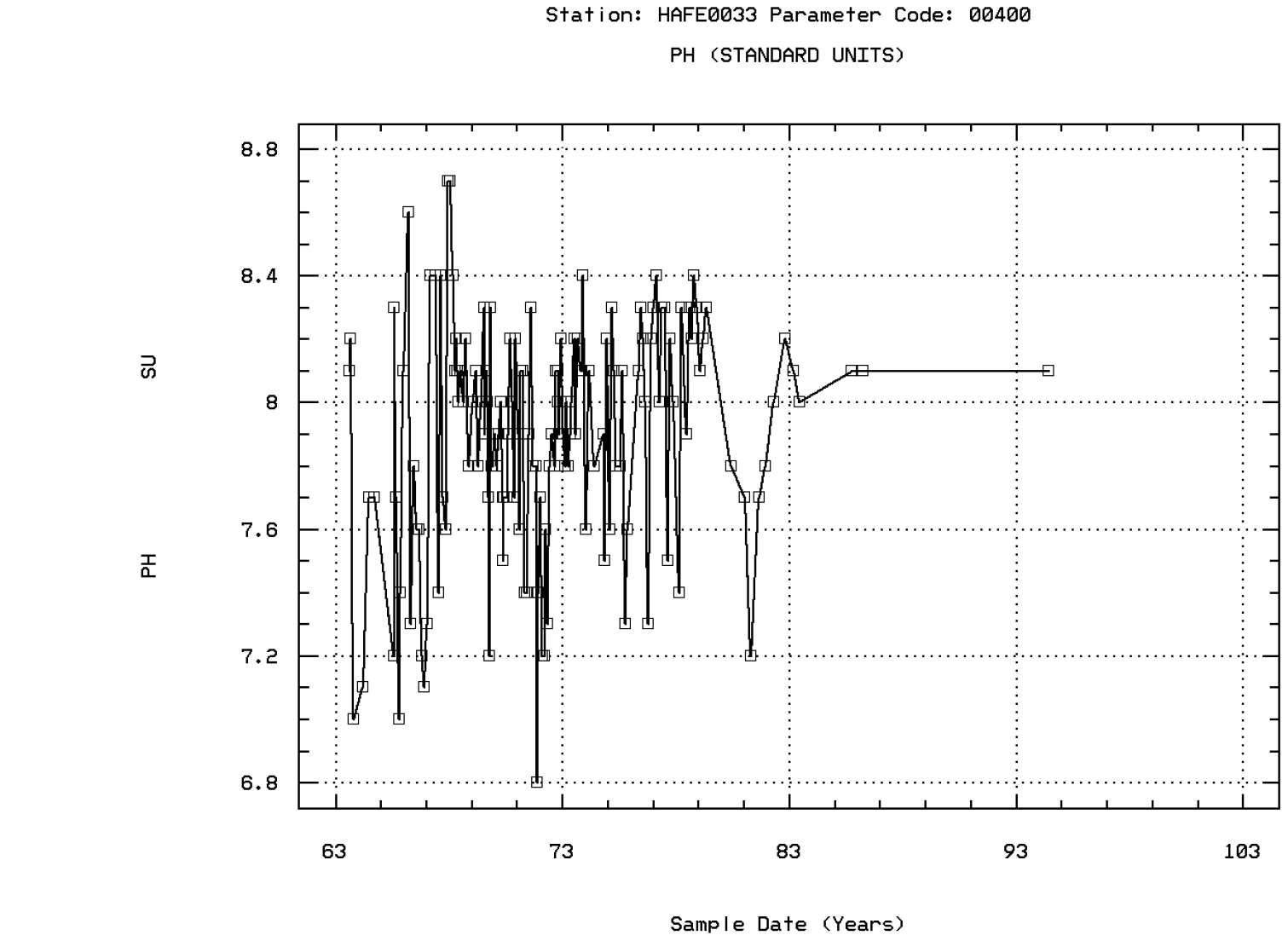
EPA Water Quality Criteria Analysis for Station: HAFE0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	7	1	0.14	4	1	0.25	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5000.	3	0	0.00	2	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	1	0	0.00							1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	57	34	0.60	17	12	0.71	23	7	0.30	17	15	0.88			
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	1	0	0.00							1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.4	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00	1	0	0.00									
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	1	0	0.00							1	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	1	0	0.00							1	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									
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00				1	0	0.00	2	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	91	0	0.00	28	0	0.00	33	0	0.00	30	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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



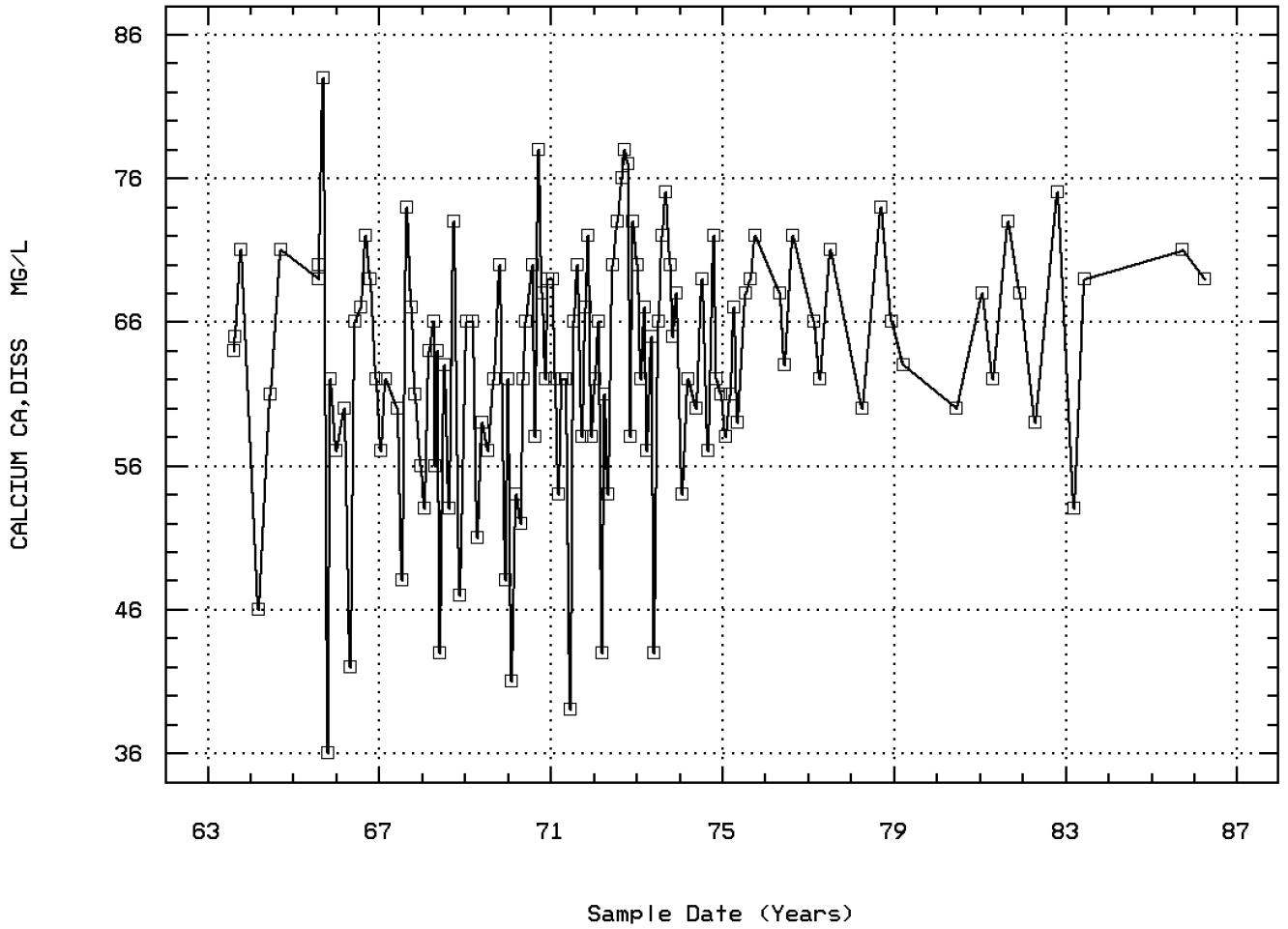
ANTIETAM C NR SHARPSBURG, MD



ANTIETAM C NR SHARPSBURG, MD

Station: HAFE0033 Parameter Code: 00915

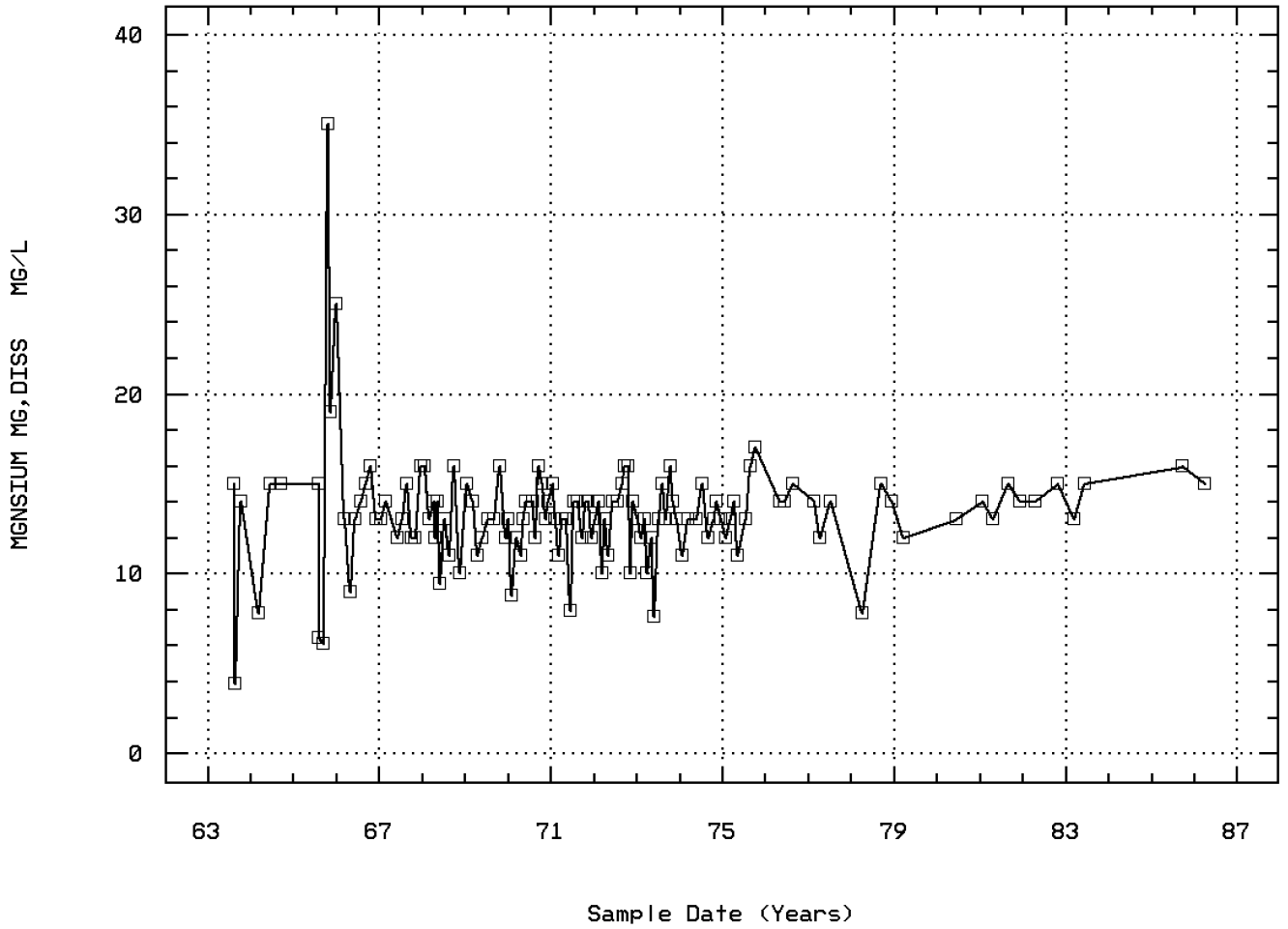
CALCIUM, DISSOLVED (MG/L AS CA)



ANTIETAM C NR SHARPSBURG, MD

Station: HAFE0033 Parameter Code: 00925

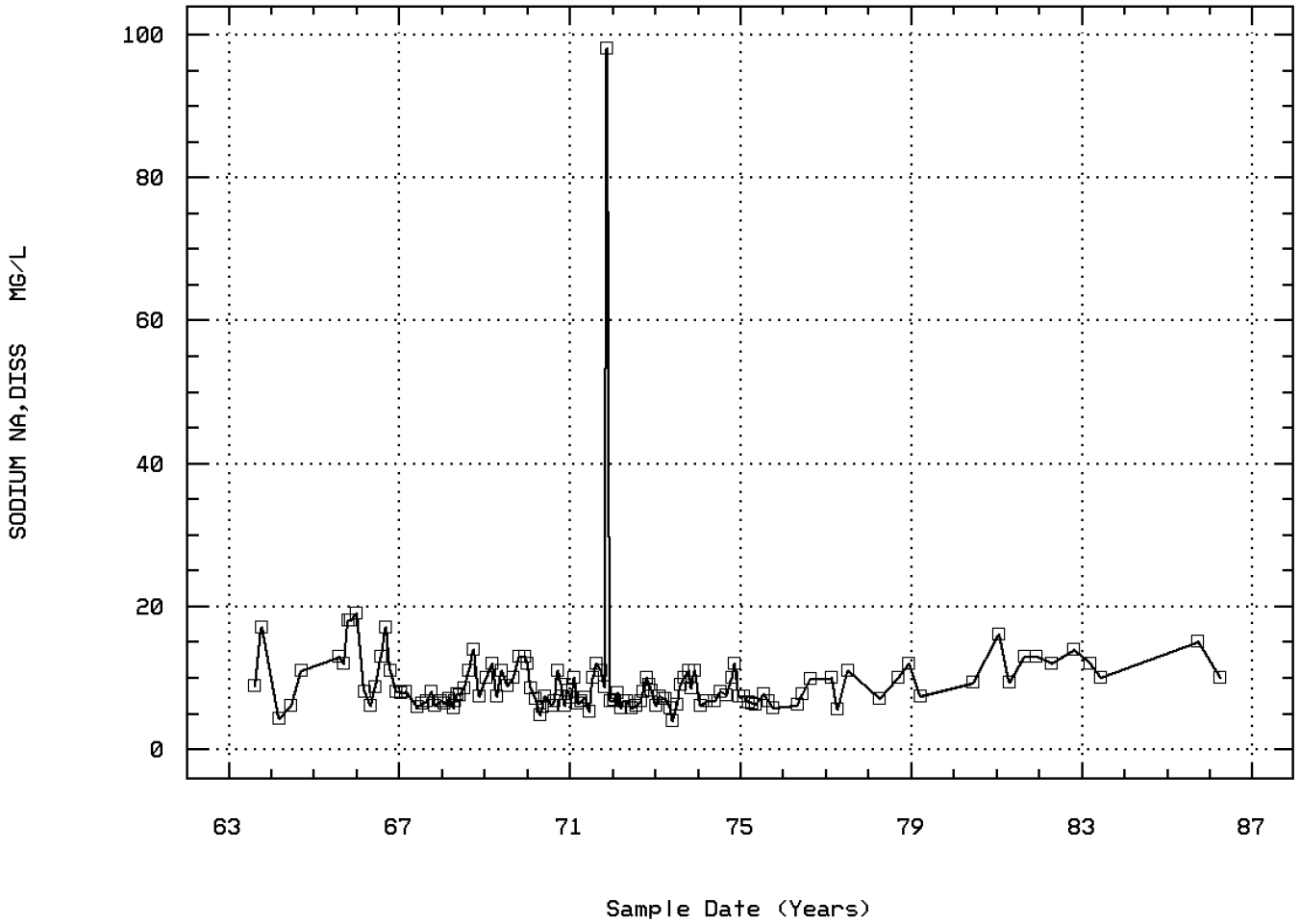
MAGNESIUM, DISSOLVED (MG/L AS MG)



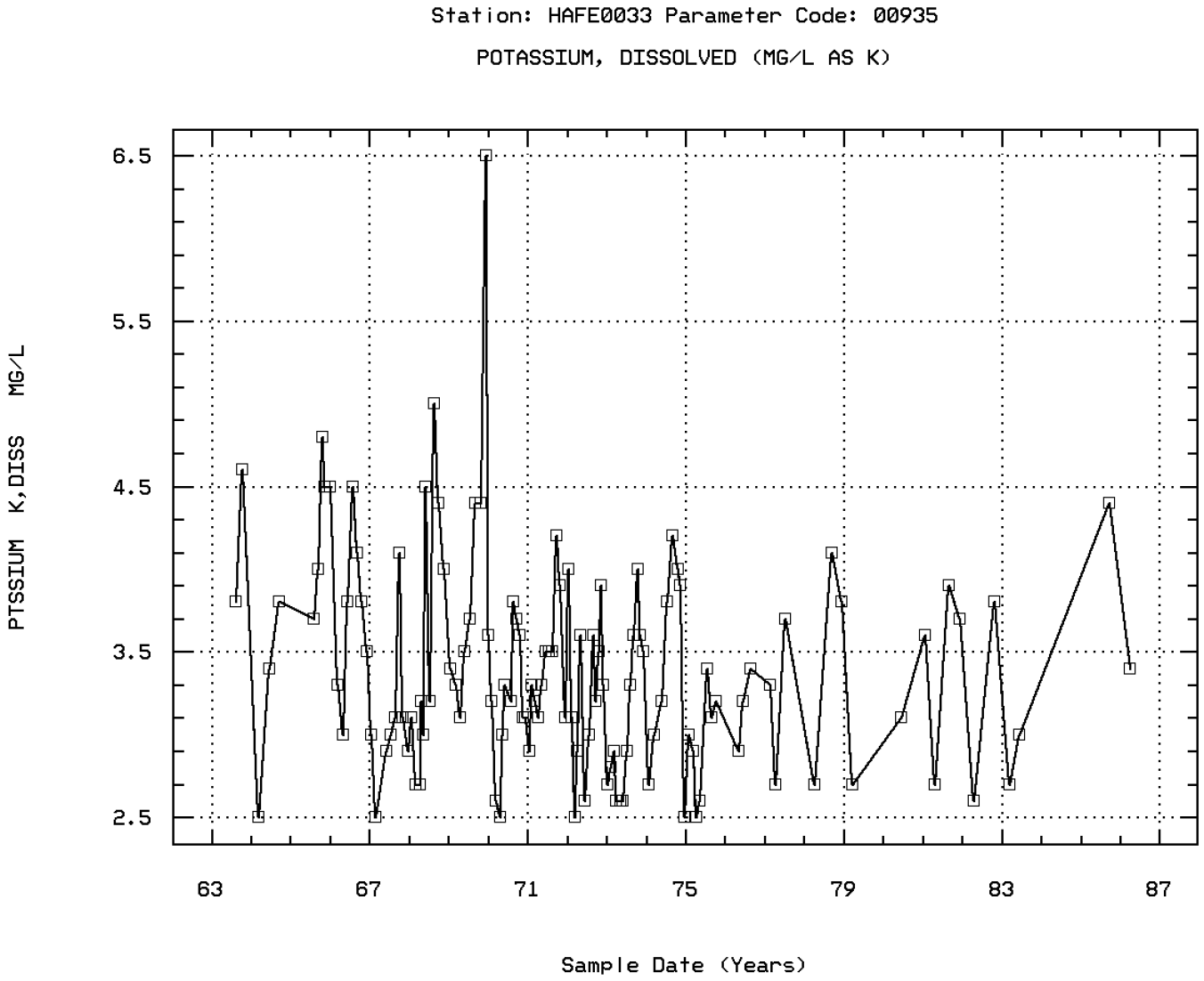
ANTIETAM C NR SHARPSBURG, MD

Station: HAFE0033 Parameter Code: 00930

SODIUM, DISSOLVED (MG/L AS NA)



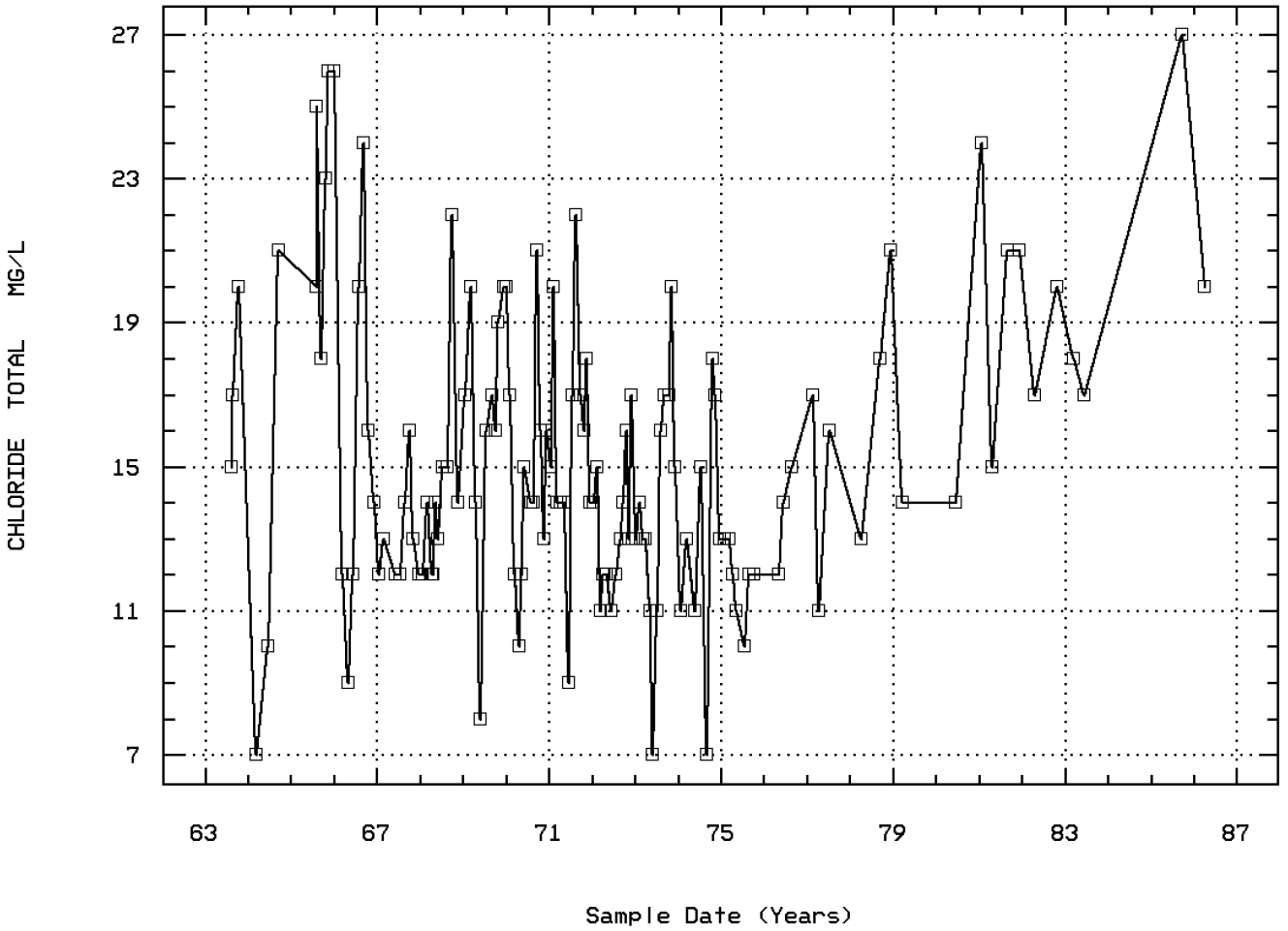
ANTIETAM C NR SHARPSBURG, MD



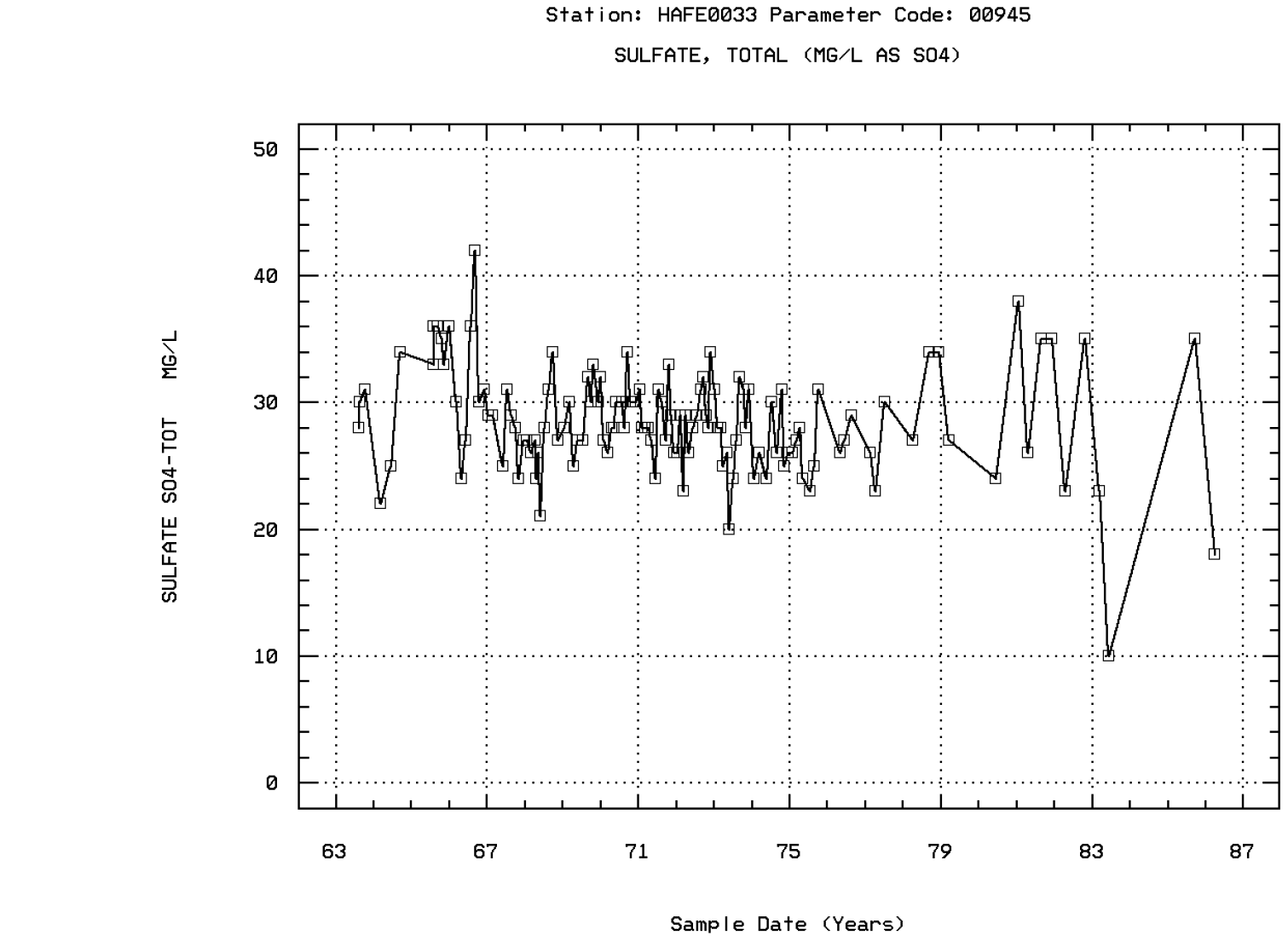
ANTIETAM C NR SHARPSBURG, MD

Station: HAFE0033 Parameter Code: 00940

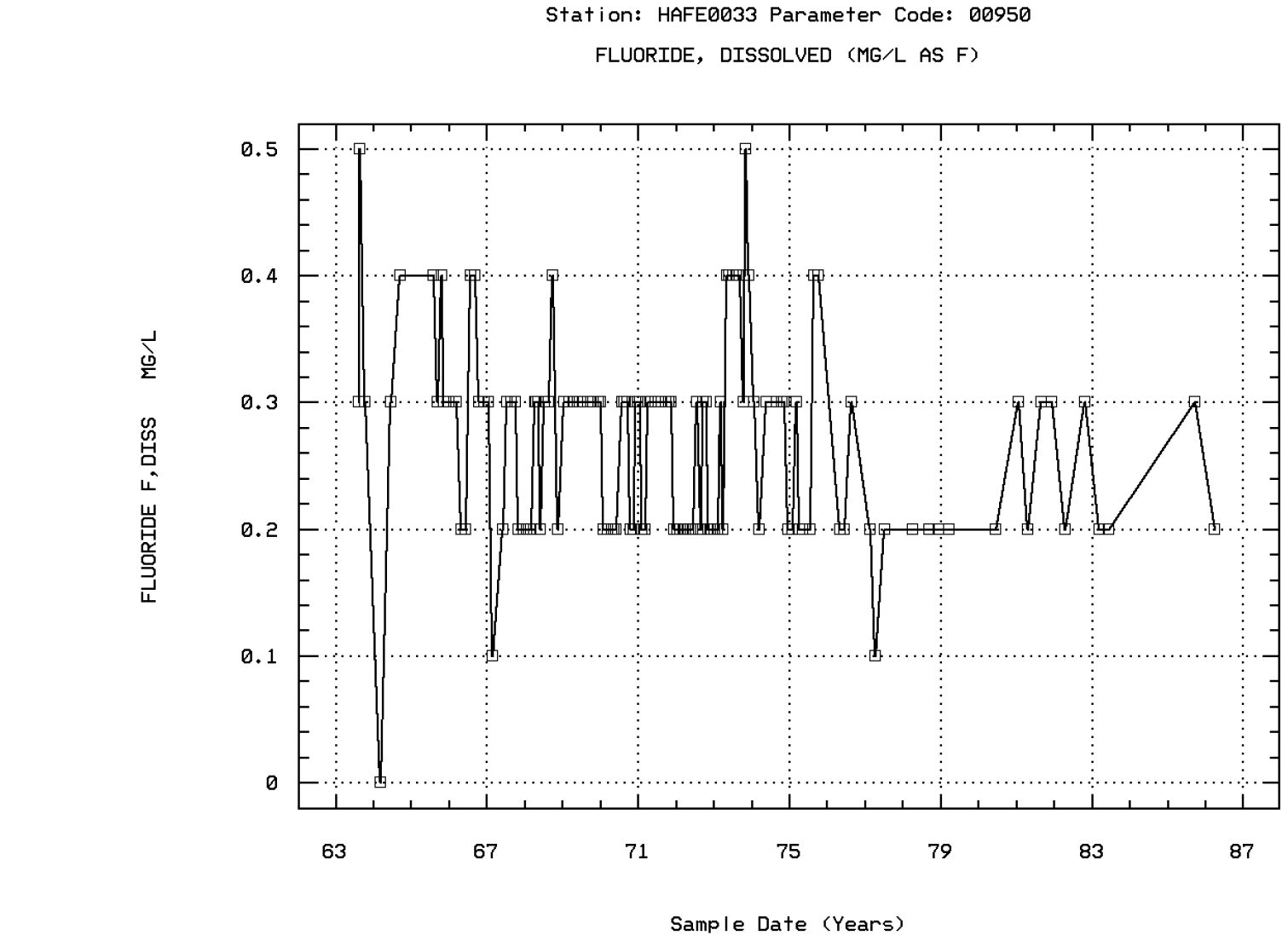
CHLORIDE,TOTAL IN WATER



ANTIETAM C NR SHARPSBURG, MD



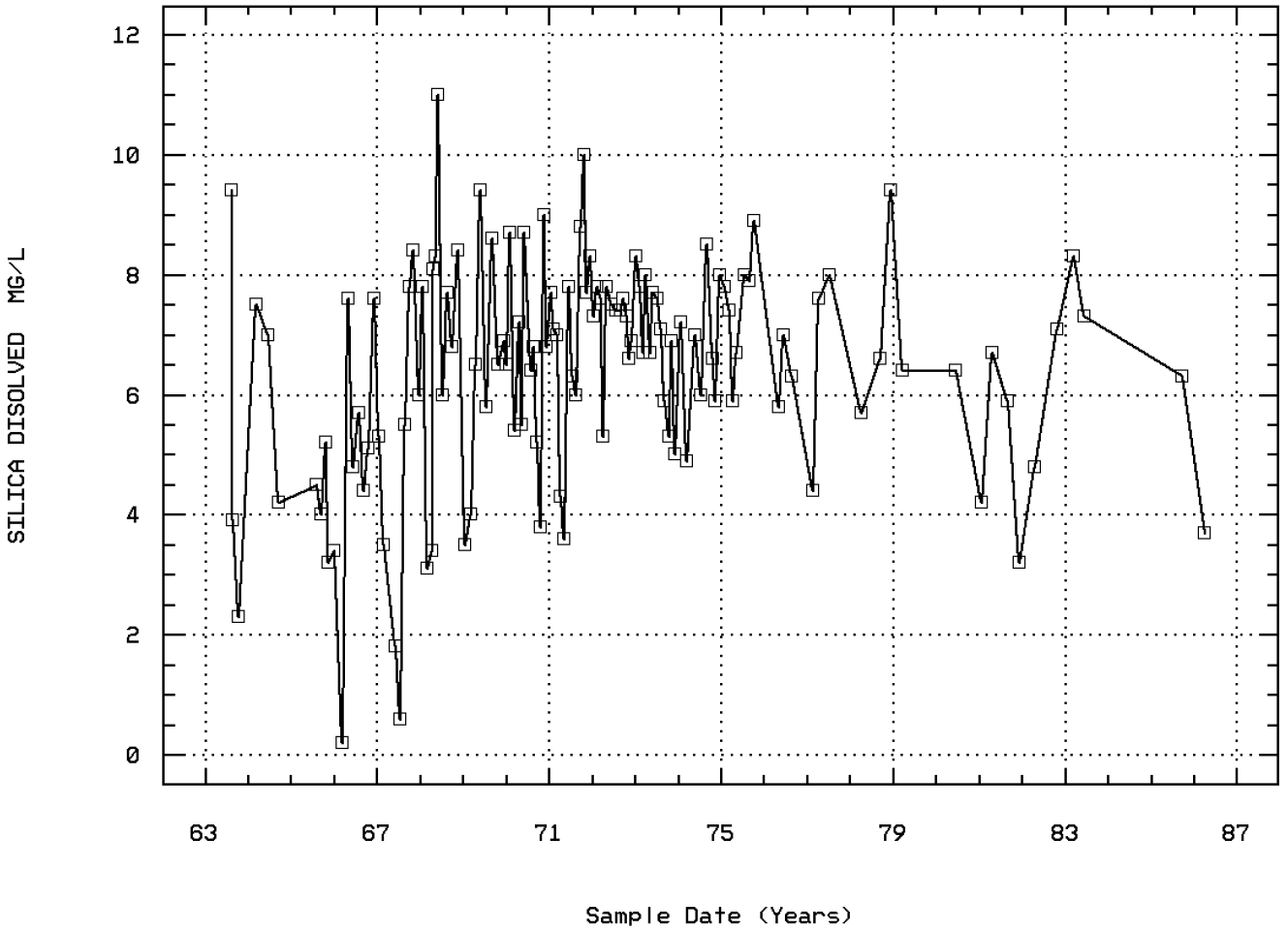
ANTIETAM C NR SHARPSBURG, MD



ANTIETAM C NR SHARPSBURG, MD

Station: HAFE0033 Parameter Code: 00955

SILICA, DISSOLVED (MG/L AS SI02)



ANTIETAM C NR SHARPSBURG, MD

Annual Analysis for 1950 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	2	12.	12.	20.	4.	128.	11.314	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	2	10.2	10.2	21.	-0.6	233.28	15.274	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	2	434.	434.	693.	175.	134162.	366.281	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	2	3.27	3.27	3.83	2.71	0.627	0.792	**	**	**	**

** - Less 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 HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	13.	12.625	21.	3.5	54.339	7.372	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	19.5	16.625	29.5	-3.	117.696	10.849	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	8	253.	283.125	534.	111.	27312.411	165.265	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	2.935	2.93	3.49	2.41	0.171	0.414	**	**	**	**

** - Less 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 1952 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	4	15.5	15.125	23.	6.5	73.729	8.587	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	4	16.	16.75	25.	10.	58.417	7.643	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	4	418.	432.25	674.	219.	44057.583	209.899	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	4	3.285	3.288	3.78	2.8	0.2	0.447	**	**	**	**

** - Less 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 1953 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	3	9.5	12.167	21.5	5.5	69.333	8.327	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	3	7.	13.5	29.	4.5	181.75	13.481	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	3	173.	242.333	459.	95.	36729.333	191.649	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	3	2.66	2.78	3.34	2.34	0.261	0.511	**	**	**	**

** - Less 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 1954 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	3	27.5	21.	28.	7.5	136.75	11.694	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	3	29.5	23.333	31.	9.5	144.083	12.003	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	3	78.	81.	99.	66.	279.	16.703	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	3	2.24	2.27	2.35	2.22	0.005	0.07	**	**	**	**

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

Annual Analysis for 1955 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	14.	13.75	25.5	5.	57.175	7.561	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	4.25	10.883	29.5	1.9	152.258	12.339	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	6	164.5	173.5	257.	107.	3365.1	58.009	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	6	2.625	2.66	2.92	2.44	0.038	0.194	**	**	**	**

** - Less 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 1956 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	14.	14.417	24.	4.5	53.142	7.29	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	12.25	12.5	26.5	1.	99.1	9.955	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	6	255.	325.667	654.	133.	37521.867	193.706	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	6	2.9	3.04	3.72	2.52	0.202	0.449	**	**	**	**

** - Less 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 1957 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	7	16.5	15.	24.	4.5	60.167	7.757	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	7	20.	19.786	34.5	3.5	132.905	11.528	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	7	96.	165.714	398.	73.	15216.238	123.354	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	7	2.34	2.593	3.3	2.26	0.164	0.405	**	**	**	**

** - Less 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 1958 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	5.	8.	25.	0.	96.125	9.804	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	8.5	7.9	23.	-5.	100.175	10.009	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	5	187.	208.8	340.	110.	9154.7	95.68	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	5	2.69	2.73	3.12	2.37	0.09	0.3	**	**	**	**

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

Annual Analysis for 1959 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	7.4	9.467	17.	3.5	32.187	5.673	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	-1.	9.6	19.	-1.	66.175	8.135	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	6	192.5	277.167	683.	57.	48988.567	221.334	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	5	2.74	2.924	3.83	2.15	0.39	0.625	**	**	**	**

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Annual Analysis for 1960 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	13	13.3	12.915	22.	1.5	43.865	6.623	1.5	8.15	18.95	21.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	7	13.5	10.571	25.	-3.	136.869	11.699	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	13	215.	390.692	1080.	106.	123070.564	350.814	106.4	141.	617.5	1076.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	7	2.65	2.687	3.12	2.4	0.082	0.287	**	**	**	**

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Annual Analysis for 1961 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	9	6.1	9.422	23.	4.	50.752	7.124	4.	4.45	15.	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	13.	15.6	28.5	4.	119.925	10.951	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	9	700.	593.889	1130.	89.	180237.861	424.544	89.	115.5	997.5	1130.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	5	2.37	2.492	3.01	2.3	0.089	0.299	**	**	**	**

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Annual Analysis for 1962 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	16	6.1	9.531	22.	3.	38.849	6.233	3.7	4.675	15.875	20.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	9	14.	14.278	27.5	-1.	96.319	9.814	4.5	2.	22.5	27.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	16	577.5	558.313	1260.	81.	153634.096	391.962	83.1	150.	906.75	1071.7
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	9	2.62	2.988	4.3	2.27	0.654	0.809	2.27	2.345	3.83	4.3

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Annual Analysis for 1963 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	10	15.	13.8	26.	0.	66.289	8.142	0.3	7.875	20.625	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	3.25	10.625	28.	-8.	144.625	12.026	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	4	85.	90.25	131.	60.	1293.583	35.966	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	8	128.5	151.5	319.	60.	8732.857	93.45	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	2.525	2.564	3.12	2.18	0.128	0.358	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	4	13.5	13.	20.	5.	66.	8.124	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	4	482.	477.	504.	440.	1038.667	32.228	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	4	7.55	7.575	8.2	7.	0.442	0.665	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	4	7.268	7.271	8.2	7.	0.566	0.752	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	4	0.054	0.054	0.1	0.006	0.003	0.054	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	3	2.9	15.4	41.	2.3	491.61	22.172	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	4	199.5	198.75	212.	184.	235.583	15.349	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	4	243.	242.	258.	224.	344.	18.547	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	4	228.5	217.5	235.	178.	731.	27.037	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	4	24.	21.5	38.	0.	249.	15.78	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	4	68.	67.75	71.	64.	14.25	3.775	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	4	14.	11.725	15.	3.9	27.436	5.238	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	3	17.	14.267	17.	8.8	22.413	4.734	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	3	0.5	0.433	0.5	0.3	0.013	0.115	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	3	13.	11.333	13.	8.	8.333	2.887	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	3	4.6	4.333	4.6	3.8	0.213	0.462	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	4	18.5	18.	20.	15.	6.	2.449	**	**	**	**

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Annual Analysis for 1963 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	4	30.5	30.	31.	28.	2.	1.414	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	4	0.3	0.35	0.5	0.3	0.01	0.1	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	4	3.1	4.475	9.4	2.3	11.349	3.369	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	2	140.	140.	140.	140.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	2	10.	10.	10.	10.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	4	282.	279.	288.	264.	132.	11.489	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	4	64.65	69.7	103.	46.5	780.847	27.944	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	4	0.39	0.39	0.4	0.38	0.	0.008	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	4	5.	5.1	10.	0.4	29.48	5.43	**	**	**	**

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Annual Analysis for 1964 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	10	13.	12.8	26.5	1.	77.456	8.801	1.2	4.125	22.	26.05
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	10	12.75	13.25	31.	-2.	116.181	10.779	1.7	7.625	22.375	30.55
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	3	290.	442.	855.	181.	130897.	361.797	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	10	155.5	314.2	1150.	80.	117880.844	343.338	80.4	90.	512.5	1092.7
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	10	2.595	2.935	4.96	2.28	0.733	0.856	2.282	2.315	3.48	4.821
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	3	419.	411.	486.	328.	6289.	79.303	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	3	7.7	7.5	7.7	7.1	0.12	0.346	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	3	7.7	7.4	7.7	7.1	0.135	0.367	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	3	0.02	0.04	0.079	0.02	0.001	0.034	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	3	175.	163.	197.	117.	1708.	41.328	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	3	213.	198.667	240.	143.	2506.333	50.063	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	3	212.	199.333	239.	147.	2236.333	47.29	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	3	38.	37.	43.	30.	43.	6.557	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	3	61.	59.333	71.	46.	158.333	12.583	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	3	15.	12.6	15.	7.8	17.28	4.157	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	3	6.	7.067	11.	4.2	12.413	3.523	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	3	6.	7.	9.	6.	3.	1.732	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	3	3.4	3.233	3.8	2.5	0.443	0.666	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	3	10.	12.667	21.	7.	54.333	7.371	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	3	25.	27.	34.	22.	39.	6.245	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	3	0.3	0.233	0.4	0.	0.043	0.208	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	3	7.	6.233	7.5	4.2	3.163	1.779	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	3	160.	366.667	870.	70.	192033.333	438.216	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	3	10.	16.667	40.	0.	433.333	20.817	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	3	224.	273.667	464.	133.	29240.333	170.998	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	3	0.37	0.343	0.39	0.27	0.004	0.064	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	3	11.	10.567	12.	8.7	2.863	1.692	**	**	**	**

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Annual Analysis for 1965 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	12.65	13.233	26.	2.	66.233	8.138	2.06	7.85	21.75	25.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	10	17.5	16.25	32.	-4.	156.792	12.522	3.7	7.	28.125	31.65
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	6	70.	80.667	143.	54.	1024.267	32.004	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	12	71.	134.333	638.	9.	28482.606	168.768	24.3	63.5	148.	516.5
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	10	2.285	2.489	3.7	2.14	0.229	0.479	2.144	2.195	2.675	3.614

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Annual Analysis for 1965 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	6	507.	511.333	545.	488.	613.867	24.776	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	6	7.55	7.617	8.3	7.	0.262	0.512	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	6	7.525	7.406	8.3	7.	0.315	0.561	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	6	0.03	0.039	0.1	0.005	0.001	0.037	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	6	11.2	15.217	40.	1.8	215.866	14.692	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	6	195.	194.667	205.	184.	49.467	7.033	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	6	238.	237.333	250.	224.	74.667	8.641	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	6	233.5	229.667	244.	201.	216.267	14.706	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	6	39.	35.167	47.	17.	117.367	10.834	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	6	65.5	62.833	83.	36.	250.167	15.817	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	6	17.	17.75	35.	6.1	124.759	11.17	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	5	18.	16.	19.	12.	10.5	3.24	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	6	0.5	0.533	1.	0.3	0.059	0.242	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	6	14.	14.667	25.	10.	28.667	5.354	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	5	4.5	4.3	4.8	3.7	0.195	0.442	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	6	24.	23.	26.	18.	11.2	3.347	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	6	35.5	34.833	36.	33.	2.167	1.472	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	5	0.3	0.34	0.4	0.3	0.003	0.055	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	5	4.	4.06	5.2	3.2	0.668	0.817	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	3	0.	0.	0.	0.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	5	288.	289.2	302.	283.	60.7	7.791	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	6	63.6	111.067	305.	53.2	9665.151	98.311	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	6	0.415	0.422	0.46	0.4	0.	0.021	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	6	7.3	7.517	12.	2.4	10.426	3.229	**	**	**	**

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Annual Analysis for 1966 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	7	11.7	14.9	24.4	4.5	56.447	7.513	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	7	10.	15.357	26.5	2.5	113.726	10.664	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	7	109.	145.714	371.	54.	11149.238	105.59	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	7	109.	145.857	375.	55.	11759.476	108.441	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	7	2.4	2.51	3.18	2.16	0.11	0.331	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	6	5.	4.667	7.	0.	5.867	2.422	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	7	442.	442.571	540.	297.	6082.619	77.991	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	7	7.6	7.6	8.6	7.1	0.257	0.507	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	7	7.6	7.428	8.6	7.1	0.291	0.54	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	7	0.025	0.037	0.079	0.003	0.001	0.028	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	7	9.3	12.3	26.	0.9	91.187	9.549	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	7	180.	173.571	203.	107.	984.286	31.373	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	7	220.	209.857	248.	130.	1501.476	38.749	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	5	0.	1.4	7.	0.	9.8	3.13	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	7	218.	210.571	242.	142.	1110.619	33.326	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	7	38.	38.857	52.	33.	38.476	6.203	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	7	66.	62.571	72.	42.	98.619	9.931	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	7	13.	13.286	16.	9.	4.905	2.215	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	7	8.7	10.257	17.	6.	13.973	3.738	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	7	0.3	0.3	0.5	0.2	0.013	0.115	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	7	8.	9.286	13.	8.	3.905	1.976	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	7	3.8	3.714	4.5	3.	0.251	0.501	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	7	14.	15.286	24.	9.	26.905	5.187	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	7	30.	31.429	42.	24.	35.286	5.94	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	7	0.3	0.3	0.4	0.2	0.007	0.082	**	**	**	**

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Annual Analysis for 1966 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	7	5.1	5.057	7.6	0.2	6.24	2.498	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	2	20.	20.	20.	20.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	7	0.	2.857	10.	0.	23.81	4.88	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	7	255.	257.143	306.	177.	1715.143	41.414	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	7	82.4	99.071	199.	45.3	2528.202	50.281	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	7	0.39	0.371	0.42	0.27	0.002	0.049	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	7	12.	10.757	14.	0.3	22.846	4.78	**	**	**	**

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Annual Analysis for 1967 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	9	8.5	12.444	22.5	3.	57.403	7.576	3.	6.25	20.75	22.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	9	11.5	14.044	33.5	-5.5	190.58	13.805	1.	-3.05	26.	33.5
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	8	209.	222.5	405.	128.	6842.571	82.72	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	9	219.	230.778	389.	138.	5560.444	74.568	138.	179.5	271.5	389.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	9	2.77	2.819	3.25	2.49	0.047	0.218	2.49	2.69	2.955	3.25
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	8	2.	2.5	7.	0.	7.143	2.673	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	8	413.5	410.125	458.	354.	976.982	31.257	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	8	8.05	7.987	8.7	7.3	0.296	0.544	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	8	7.922	7.73	8.7	7.3	0.371	0.609	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	8	0.012	0.019	0.05	0.002	0.	0.019	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	8	4.2	5.525	15.	0.6	27.862	5.278	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	8	159.5	159.125	184.	126.	276.982	16.643	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	8	191.	191.875	224.	154.	425.839	20.636	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	3	0.	3.	9.	0.	27.	5.196	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	8	204.	206.625	246.	174.	423.696	20.584	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	8	44.5	44.	51.	38.	22.286	4.721	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	8	60.5	60.625	74.	48.	59.411	7.708	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	8	13.	13.375	16.	12.	2.268	1.506	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	8	6.75	6.988	8.1	5.9	0.79	0.889	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	8	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	8	7.	6.75	8.	6.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	8	3.	3.075	4.1	2.5	0.208	0.456	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	8	12.5	13.	16.	12.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	8	28.5	27.75	31.	24.	5.357	2.315	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	8	0.25	0.238	0.3	0.1	0.006	0.074	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	8	5.4	4.863	8.4	0.6	7.491	2.737	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	3	10.	36.667	100.	0.	3033.333	55.076	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	3	0.	16.667	50.	0.	833.333	28.868	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	8	240.	239.125	272.	199.	491.839	22.177	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	8	134.5	145.863	264.	89.9	2684.866	51.816	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	8	0.34	0.334	0.37	0.26	0.001	0.036	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	8	14.	13.65	17.	9.1	9.434	3.072	**	**	**	**

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Annual Analysis for 1968 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	14	13.5	13.179	25.	3.5	46.562	6.824	4.5	6.	18.	24.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	16.5	16.063	34.	3.5	100.174	10.009	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	10	268.	296.7	695.	101.	32543.122	180.397	105.6	164.25	356.75	677.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	11	282.	364.727	1070.	101.	82955.618	288.02	110.4	171.	493.	995.

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Annual Analysis for 1968 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	2.965	3.091	4.68	2.36	0.528	0.727	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	10	4.5	4.4	10.	0.	10.044	3.169	0.	2.25	6.5	9.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	10	420.5	414.	520.	325.	3078.222	55.482	328.	373.75	441.75	514.2
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	10	8.1	8.16	8.7	7.8	0.06	0.246	7.82	8.	8.25	8.67
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	10	8.1	8.106	8.7	7.8	0.064	0.252	7.82	8.	8.25	8.67
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	10	0.008	0.008	0.016	0.002	0.	0.004	0.002	0.006	0.01	0.015
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	10	2.55	2.29	3.7	0.6	0.794	0.891	0.66	1.65	2.8	3.61
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	10	163.5	157.3	200.	113.	737.567	27.158	113.9	134.	174.5	197.6
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	10	192.	189.7	244.	138.	1082.011	32.894	139.1	163.25	212.75	241.1
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	10	0.	1.1	6.	0.	5.433	2.331	0.	0.	1.25	5.9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	10	204.5	198.	248.	146.	953.111	30.872	147.3	172.5	218.25	245.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	10	40.	40.8	48.	33.	21.511	4.638	33.4	37.	44.5	47.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	10	59.5	58.2	73.	43.	87.289	9.343	43.4	51.5	64.5	72.3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	10	13.	12.84	16.	9.4	5.189	2.278	9.46	10.75	14.5	16.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	10	7.45	8.22	14.	5.7	6.186	2.487	5.77	6.7	9.2	13.7
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	10	0.25	0.27	0.4	0.2	0.007	0.082	0.2	0.2	0.325	0.4
00932	SODIUM, PERCENT	08/09/63-03/16/83	10	7.5	8.2	12.	5.	5.067	2.251	5.1	6.75	10.25	11.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	10	3.2	3.58	5.	2.7	0.68	0.824	2.7	2.925	4.425	4.95
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	10	14.	14.3	22.	12.	8.678	2.946	12.	12.	15.	21.3
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	10	27.	27.1	34.	21.	12.544	3.542	21.3	25.5	28.75	33.7
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	10	0.3	0.27	0.4	0.2	0.005	0.067	0.2	0.2	0.3	0.39
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	10	7.75	7.06	11.	3.1	5.685	2.384	3.13	5.35	8.325	10.74
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	9	90.	178.889	880.	50.	69861.111	264.313	50.	75.	130.	880.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	9	20.	61.111	380.	10.	14461.111	120.254	10.	10.	40.	380.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	10	242.5	240.	303.	190.	1004.667	31.696	191.2	219.25	256.25	298.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	10	164.5	182.53	357.	82.6	8446.516	91.905	83.51	111.425	235.75	353.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	10	0.33	0.326	0.41	0.26	0.002	0.043	0.261	0.3	0.35	0.404
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	10	14.	14.2	17.	11.	4.4	2.098	11.1	12.	16.25	17.

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

Annual Analysis for 1969 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	16	11.25	12.188	24.5	0.5	64.463	8.029	0.85	6.	19.	24.15
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	11.5	12.563	29.5	0.	110.317	10.503	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	15	112.	124.867	278.	82.	2565.552	50.651	82.	88.	138.	213.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	14	123.5	123.714	179.	79.	837.451	28.939	82.	102.	140.5	174.5
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	2.45	2.449	2.64	2.27	0.013	0.116	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	9	5.	4.444	7.	2.	2.278	1.509	2.	3.	5.	7.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	13	450.	444.769	507.	364.	1362.359	36.91	378.4	427.5	470.	498.2
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	6	8.	8.65	11.1	6.8	2.503	1.582	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	13	8.	7.923	8.3	7.2	0.082	0.286	7.4	7.8	8.1	8.3
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	13	8.	7.815	8.3	7.2	0.095	0.308	7.4	7.8	8.1	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	13	0.01	0.015	0.063	0.005	0.	0.015	0.005	0.008	0.016	0.046
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	8	3.3	3.8	10.	1.6	6.954	2.637	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	9	167.	164.778	195.	130.	447.444	21.153	130.	149.5	177.5	195.
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	9	204.	199.222	230.	159.	595.194	24.397	159.	179.	216.5	230.
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	9	0.	0.889	4.	0.	3.111	1.764	0.	0.	2.	4.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	9	208.	205.	241.	170.	524.75	22.907	170.	186.5	224.	241.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	9	42.	40.333	51.	29.	51.	7.141	29.	34.5	45.	51.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	8	60.5	59.875	70.	48.	58.696	7.661	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	8	13.	13.25	16.	11.	2.786	1.669	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	8	10.5	10.638	13.	7.3	4.068	2.017	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	8	0.3	0.325	0.4	0.2	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	8	9.5	10.	14.	8.	3.429	1.852	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	8	3.6	4.038	6.5	3.1	1.223	1.106	**	**	**	**

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

Annual Analysis for 1969 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	9	17.	16.333	20.	8.	13.75	3.708	8.	15.	19.5	20.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	9	30.	29.111	33.	25.	6.611	2.571	25.	27.	31.	33.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	9	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	8	6.5	6.4	9.4	3.5	4.091	2.023	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	8	125.	197.5	680.	60.	41935.714	204.782	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	8	45.	51.25	120.	0.	1498.214	38.707	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	6	255.	2893.333	11000.	90.	20459906.667	4523.263	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	6	2.4	2.791	4.041	1.954	0.769	0.877	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			618.321								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	8	250.5	252.	293.	210.	727.429	26.971	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	9	72.9	88.589	171.	55.4	1193.384	34.545	55.4	67.85	98.7	171.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	9	0.35	0.346	0.4	0.29	0.001	0.034	0.29	0.32	0.37	0.4
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	8	12.5	13.45	20.	9.6	12.134	3.483	**	**	**	**

** - 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

Annual Analysis for 1970 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	18	14.	13.278	23.	1.5	66.948	8.182	2.4	3.75	21.5	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	4	21.25	18.875	32.5	0.5	262.563	16.204	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	13	274.	313.769	805.	128.	33920.526	184.175	137.6	169.5	366.5	695.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	17	266.	284.588	805.	128.	29344.257	171.302	128.8	151.	318.5	585.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	5	2.73	2.804	3.12	2.48	0.089	0.298	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	12	2.5	2.667	5.	0.	3.697	1.923	0.3	1.	5.	5.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	13	430.	411.154	470.	310.	2183.974	46.733	330.	375.	445.	468.
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	13	8.7	9.723	13.1	7.6	4.242	2.06	7.6	7.75	12.	12.78
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	13	7.9	7.862	8.2	7.5	0.043	0.206	7.58	7.7	8.	8.2
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	13	7.9	7.818	8.2	7.5	0.045	0.211	7.58	7.7	8.	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	13	0.013	0.015	0.032	0.006	0.	0.007	0.006	0.01	0.02	0.027
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	12	4.3	4.458	7.8	1.4	3.694	1.922	1.7	3.125	6.175	7.56
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	12	166.5	165.167	200.	102.	799.242	28.271	111.3	148.75	187.5	199.4
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	12	203.	201.083	244.	124.	1221.538	34.951	135.4	178.5	229.	243.4
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	12	0.	0.167	2.	0.	0.333	0.577	0.	0.	0.	1.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	12	208.	208.75	261.	139.	1088.75	32.996	149.8	186.5	231.5	255.9
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	12	42.5	43.75	61.	34.	47.114	6.864	34.9	39.5	46.75	57.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	12	62.	61.833	78.	41.	94.697	9.731	44.3	55.	68.75	75.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	12	13.	12.983	16.	8.8	3.603	1.898	9.46	12.	14.	15.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	12	7.2	7.7	12.	4.7	4.682	2.164	5.06	6.	8.875	11.7
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	12	0.2	0.242	0.4	0.2	0.004	0.067	0.2	0.2	0.3	0.37
00932	SODIUM, PERCENT	08/09/63-03/16/83	12	7.	7.417	11.	5.	3.902	1.975	5.	6.	8.	11.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	12	3.2	3.225	3.8	2.5	0.168	0.409	2.53	3.025	3.6	3.77
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	12	14.5	15.	21.	10.	10.545	3.247	10.6	12.25	16.75	20.7
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	12	30.	29.417	34.	26.	4.811	2.193	26.3	28.	30.	33.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	12	0.2	0.242	0.3	0.2	0.003	0.051	0.2	0.2	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	12	6.65	6.667	9.	3.8	2.497	1.58	4.22	5.425	8.325	8.91
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	11	170.	201.818	510.	100.	16056.364	126.714	100.	110.	230.	480.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	11	30.	30.909	80.	0.	469.091	21.659	4.	20.	30.	76.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	12	1100.	1818.333	5000.	120.	3256124.242	1804.473	123.	272.5	3900.	4760.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	12	3.041	2.974	3.699	2.079	0.346	0.588	2.09	2.388	3.589	3.676
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			942.225								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	12	255.	250.333	305.	189.	1069.515	32.703	195.3	223.25	271.75	297.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	12	181.	199.167	456.	104.	9528.152	97.612	105.2	126.75	246.25	400.2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	12	0.35	0.343	0.41	0.26	0.002	0.046	0.269	0.305	0.37	0.41
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	12	14.	14.25	17.	10.	3.295	1.815	10.9	13.25	15.75	16.7

** - 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 1971 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	13	9.	10.923	22.	0.5	46.577	6.825	1.9	5.5	16.75	21.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	12	324.	345.5	825.	152.	36476.455	190.988	154.4	174.25	442.5	727.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	13	326.	352.385	825.	152.	34052.923	184.534	155.2	178.5	442.5	695.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	1	3.24	3.24	3.24	3.24	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	12	1.5	2.25	7.	0.	6.568	2.563	0.	0.	5.	6.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	12	445.	435.833	510.	290.	3621.97	60.183	317.	406.25	477.5	507.
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	12	10.2	10.692	13.9	8.9	3.272	1.809	8.9	9.025	11.975	13.75
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	12	7.8	7.708	8.3	6.8	0.17	0.412	6.98	7.4	8.05	8.24
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	12	7.8	7.498	8.3	6.8	0.218	0.467	6.98	7.4	8.05	8.24
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	12	0.016	0.032	0.158	0.005	0.002	0.042	0.006	0.009	0.04	0.123
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	9	4.9	5.111	10.	1.2	7.324	2.706	1.2	3.05	7.1	10.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	12	163.5	162.667	192.	103.	600.788	24.511	113.5	151.5	179.25	191.1
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	12	199.5	197.	234.	125.	831.273	28.832	137.9	185.	215.75	229.8
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	11	0.	0.727	8.	0.	5.818	2.412	0.	0.	0.	6.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	12	208.	206.5	237.	130.	879.909	29.663	145.	195.5	230.25	236.1
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	12	45.	43.833	53.	28.	39.242	6.264	31.	42.25	48.	51.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	12	62.	61.583	72.	39.	79.72	8.929	43.5	58.	68.5	71.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	12	13.	12.742	15.	7.9	3.564	1.888	8.83	12.	14.	14.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	12	7.95	15.783	98.	5.3	674.594	25.973	5.63	6.8	10.75	72.2
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	12	0.25	0.458	2.8	0.2	0.546	0.739	0.2	0.2	0.3	2.05
00932	SODIUM, PERCENT	08/09/63-03/16/83	11	8.	8.091	11.	6.	2.291	1.514	6.2	7.	9.	10.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	11	3.3	3.409	4.2	2.9	0.141	0.375	2.94	3.1	3.5	4.14
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	12	15.5	15.833	22.	9.	11.242	3.353	10.5	14.	17.75	21.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	12	28.	28.5	33.	24.	6.091	2.468	24.6	27.	30.75	32.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	12	0.3	0.275	0.3	0.2	0.002	0.045	0.2	0.225	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	12	7.4	7.05	10.	3.6	3.261	1.806	3.81	6.075	8.175	9.64
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	12	135.	235.	920.	20.	61918.182	248.834	44.	100.	267.5	794.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	12	25.	38.167	120.	20.	880.333	29.67	20.	20.	53.5	102.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	12	480.	1095.917	8000.	13.	4878972.083	2208.84	29.5	155.	910.	5990.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	12	2.68	2.553	3.903	1.114	0.493	0.702	1.33	2.19	2.955	3.666
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			357.338								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	12	253.5	250.583	287.	169.	1123.174	33.514	184.6	234.	274.	287.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	12	216.	225.583	492.	118.	11178.083	105.726	119.8	130.75	279.	438.3
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	12	0.36	0.345	0.39	0.23	0.002	0.047	0.251	0.323	0.385	0.39
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	12	15.	15.417	20.	11.	5.174	2.275	11.9	14.	16.75	19.4

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

Annual Analysis for 1972 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	17	10.	11.324	19.	1.	28.936	5.379	3.8	7.	16.75	18.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	3	15.5	14.5	23.5	4.5	91.	9.539	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	11	350.	400.273	835.	179.	38533.018	196.298	189.6	232.	450.	802.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	17	350.	404.294	1100.	157.	66126.721	257.151	157.	215.	485.	888.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	4	3.25	3.488	4.71	2.74	0.764	0.874	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	7	1.	1.286	3.	0.	1.905	1.38	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	13	450.	442.	490.	370.	1637.	40.46	372.4	412.5	475.	490.
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	13	10.	10.292	12.6	7.7	2.141	1.463	8.22	9.15	11.6	12.56
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	13	7.8	7.754	8.2	7.2	0.116	0.341	7.2	7.45	8.05	8.16
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	13	7.8	7.622	8.2	7.2	0.135	0.367	7.2	7.45	8.05	8.16
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	13	0.016	0.024	0.063	0.006	0.	0.021	0.007	0.009	0.038	0.063
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	3	3.	5.	9.2	2.8	13.24	3.639	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	12	177.	169.5	196.	112.	666.455	25.816	121.3	148.5	193.	195.7
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	12	215.5	206.333	239.	136.	995.152	31.546	147.4	180.5	234.	238.7
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	12	0.	0.083	1.	0.	0.083	0.289	0.	0.	0.	0.7

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Annual Analysis for 1972 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	12	227.	219.75	260.	149.	1175.295	34.283	158.3	194.	247.5	260.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	12	50.5	50.083	65.	36.	91.72	9.577	36.3	43.25	57.5	64.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	12	68.	65.917	78.	43.	114.265	10.689	46.3	58.75	75.25	77.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	12	14.	13.333	16.	10.	4.242	2.06	10.	11.5	14.75	16.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	12	6.85	7.3	10.	5.7	1.798	1.341	5.7	6.175	8.15	9.7
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	12	0.2	0.217	0.3	0.2	0.002	0.039	0.2	0.2	0.2	0.3
00932	SODIUM, PERCENT	08/09/63-03/16/83	12	7.	6.75	9.	5.	1.659	1.288	5.	5.25	7.75	8.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	12	3.25	3.267	4.	2.5	0.226	0.475	2.53	2.925	3.6	3.97
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	12	13.	13.333	17.	11.	3.697	1.923	11.	12.	14.75	16.7
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	12	29.	28.667	34.	23.	8.424	2.902	23.9	26.5	30.5	33.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	12	0.2	0.225	0.3	0.2	0.002	0.045	0.2	0.2	0.275	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	12	7.4	7.208	7.8	5.3	0.481	0.693	5.69	7.	7.6	7.8
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	10	190.	249.	550.	80.	24921.111	157.864	83.	140.	347.5	544.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	10	40.	44.	90.	0.	715.556	26.75	2.	20.	62.5	88.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	13	170.	1255.077	12000.	3.	10602429.91	3256.137	10.2	32.	770.	7760.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	13	2.23	2.256	4.079	0.477	0.882	0.939	0.815	1.497	2.866	3.706
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			180.318								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	12	263.5	256.5	295.	182.	1184.273	34.413	193.4	230.75	286.5	294.7
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	12	246.5	252.5	496.	125.	10012.455	100.062	133.7	177.	316.25	446.2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	12	0.36	0.353	0.43	0.25	0.002	0.05	0.265	0.315	0.39	0.421
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	12	15.	15.492	19.	12.	5.126	2.264	12.12	13.5	17.525	18.7

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Annual Analysis for 1973 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	11.25	11.667	22.	2.	42.515	6.52	2.9	5.625	17.625	21.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	12	395.5	422.75	1010.	146.	75900.75	275.501	150.5	173.5	587.5	936.5
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	3	10.	10.333	18.	3.	56.333	7.506	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	12	430.	430.	515.	285.	3809.091	61.718	309.	405.	477.5	507.5
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	11	11.2	10.936	14.6	7.8	4.225	2.055	7.84	9.2	12.1	14.32
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	12	8.	8.025	8.4	7.8	0.033	0.182	7.8	7.9	8.175	8.34
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	12	8.	7.993	8.4	7.8	0.034	0.185	7.8	7.9	8.175	8.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	12	0.01	0.01	0.016	0.004	0.	0.004	0.005	0.007	0.013	0.016
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	12	3.25	4.058	8.3	1.5	5.423	2.329	1.59	2.2	5.975	8.21
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	12	178.5	171.667	201.	107.	747.152	27.334	118.1	155.5	192.75	201.
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	12	218.	209.167	245.	129.	1132.333	33.65	142.8	190.	235.25	245.
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	12	0.	0.083	1.	0.	0.083	0.289	0.	0.	0.	0.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	12	220.	213.333	240.	140.	842.424	29.025	152.	202.5	237.5	240.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	12	40.	42.667	55.	31.	65.152	8.072	32.2	35.25	50.25	54.7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	12	66.5	65.	75.	43.	70.	8.367	47.2	62.75	70.	74.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	12	13.	12.633	16.	7.6	4.777	2.186	8.32	12.	13.75	15.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	12	7.2	7.733	11.	3.9	4.877	2.208	4.47	6.05	9.75	11.
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	12	0.2	0.225	0.3	0.1	0.004	0.062	0.13	0.2	0.3	0.3
00932	SODIUM, PERCENT	08/09/63-03/16/83	12	7.	7.167	10.	5.	2.152	1.467	5.3	6.	8.	9.7
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	12	2.9	3.092	4.	2.6	0.235	0.485	2.6	2.625	3.575	3.88
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	12	13.5	13.917	20.	7.	11.72	3.423	8.2	11.5	16.75	19.1
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	12	28.	27.583	32.	20.	12.265	3.502	21.2	25.25	31.	31.7
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	12	0.4	0.342	0.5	0.2	0.01	0.1	0.2	0.225	0.4	0.47
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	12	7.	6.917	8.3	5.	1.127	1.062	5.09	6.1	7.775	8.21
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	10	265.	327.	830.	140.	43667.778	208.968	141.	165.	430.	796.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	10	30.	30.5	60.	5.	474.722	21.788	5.	5.	52.5	60.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	12	175.	1078.25	5200.	31.	2397086.205	1548.253	39.1	82.5	1925.	4330.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	12	2.234	2.525	3.716	1.491	0.56	0.748	1.573	1.916	3.283	3.61
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			335.198								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	12	256.5	252.583	298.	167.	1126.811	33.568	183.8	243.	273.25	294.4

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Annual Analysis for 1973 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	12	273.5	280.	559.	108.	24028.545	155.011	111.6	137.75	387.25	541.9
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	12	0.355	0.352	0.43	0.28	0.002	0.04	0.286	0.33	0.37	0.418
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	9	17.	16.222	20.	10.	8.944	2.991	10.	14.5	18.5	20.

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Annual Analysis for 1974 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	7.75	12.333	23.5	4.5	50.652	7.117	4.95	7.	19.25	22.75
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	13.	14.	25.	1.5	96.625	9.83	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	12	171.5	242.167	720.	108.	28125.97	167.708	109.5	152.75	286.5	609.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	7	2.66	2.731	3.03	2.42	0.049	0.221	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	6	3.5	4.667	10.	1.	16.267	4.033	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	7	444.	441.714	540.	341.	4834.238	69.529	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	1	12.2	12.2	12.2	12.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	6	7.85	7.85	8.2	7.5	0.075	0.274	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	6	7.847	7.781	8.2	7.5	0.081	0.284	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	6	0.014	0.017	0.032	0.006	0.	0.01	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	6	4.85	5.4	11.	2.1	10.324	3.213	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	8	173.	169.875	191.	138.	261.554	16.173	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	8	211.	207.125	233.	168.	394.411	19.86	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	8	210.	207.5	230.	180.	307.143	17.525	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	8	40.	38.875	54.	28.	69.554	8.34	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	8	61.5	62.125	72.	54.	34.696	5.89	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	8	13.	13.	15.	11.	1.429	1.195	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	8	7.45	8.038	12.	6.	3.997	1.999	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	8	0.2	0.238	0.4	0.2	0.006	0.074	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	8	7.	7.625	11.	6.	2.268	1.506	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	8	3.5	3.413	4.2	2.5	0.416	0.645	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	8	13.	13.125	18.	7.	12.696	3.563	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	8	26.	26.5	31.	24.	6.857	2.619	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	8	0.3	0.363	1.	0.2	0.068	0.262	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	8	6.8	6.763	8.5	4.9	1.374	1.172	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	8	355.	558.75	1600.	70.	302555.357	550.05	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	8	55.	49.375	90.	5.	717.411	26.785	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	1	420.	420.	420.	420.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	1	2.623	2.623	2.623	2.623	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			420.								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	8	234.	235.5	270.	199.	500.571	22.373	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	8	138.5	168.338	387.	82.4	9859.448	99.295	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	8	0.32	0.321	0.37	0.27	0.001	0.032	**	**	**	**

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Annual Analysis for 1975 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	13	14.	13.077	22.	2.	41.952	6.477	3.4	7.25	19.	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	21.	17.3	30.	-4.	171.45	13.094	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	13	426.	475.231	875.	217.	35946.859	189.597	217.	359.5	650.	791.4
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	9	3.38	3.432	4.15	2.79	0.159	0.398	2.79	3.165	3.715	4.15
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	7	3.	4.143	8.	1.	9.476	3.078	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	9	460.	453.333	510.	380.	2418.75	49.181	380.	407.5	500.	510.

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Annual Analysis for 1975 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	8	7.8	7.825	8.3	7.3	0.108	0.328	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	8	7.8	7.719	8.3	7.3	0.121	0.348	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	8	0.016	0.019	0.05	0.005	0.	0.015	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	7	4.7	6.343	19.	1.7	35.076	5.923	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	7	175.	176.286	210.	153.	438.571	20.942	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	7	213.	214.714	256.	187.	648.905	25.474	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	7	220.	218.571	250.	190.	547.619	23.401	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	7	39.	42.286	59.	28.	129.905	11.398	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	7	67.	64.857	72.	58.	29.81	5.46	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	7	13.	13.714	17.	11.	4.571	2.138	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	7	6.5	6.671	7.7	5.7	0.442	0.665	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	7	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	7	6.	6.286	7.	5.	0.571	0.756	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	7	3.	2.957	3.4	2.5	0.103	0.321	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	7	12.	11.857	13.	10.	1.143	1.069	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	7	26.	26.286	31.	23.	7.238	2.69	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	7	0.2	0.271	0.4	0.2	0.009	0.095	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	7	7.8	7.514	8.9	5.9	0.945	0.972	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	7	430.	625.714	1500.	260.	234961.905	484.729	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	7	40.	85.	380.	5.	17458.333	132.13	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	7	236.	239.857	269.	213.	440.476	20.988	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	7	269.	281.857	472.	156.	8874.143	94.203	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	7	0.32	0.326	0.37	0.29	0.001	0.029	**	**	**	**

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Annual Analysis for 1976 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	15	15.5	14.9	22.5	3.	51.829	7.199	3.3	7.	21.5	22.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	10	17.	17.3	30.	-5.	107.344	10.361	7.6	10.	28.	29.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	15	223.	308.4	1030.	118.	63522.4	252.037	120.4	134.	361.	764.8
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	11	2.95	3.069	4.47	2.42	0.367	0.606	2.436	2.58	3.54	4.286
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	8	480.	476.25	500.	400.	1083.929	32.923	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	7	8.1	8.014	8.3	7.3	0.111	0.334	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	7	8.1	7.864	8.3	7.3	0.138	0.371	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	7	0.008	0.014	0.05	0.005	0.	0.016	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	3	2.8	2.767	3.7	1.8	0.903	0.95	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	3	187.	186.333	190.	182.	16.333	4.041	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	3	228.	227.333	232.	222.	25.333	5.033	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	3	230.	230.	240.	220.	100.	10.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	3	45.	41.333	51.	28.	142.333	11.93	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	3	68.	67.667	72.	63.	20.333	4.509	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	3	14.	14.333	15.	14.	0.333	0.577	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	3	7.7	7.967	9.9	6.3	3.293	1.815	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	3	7.	7.	8.	6.	1.	1.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	3	3.2	3.167	3.4	2.9	0.063	0.252	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	3	14.	13.667	15.	12.	2.333	1.528	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	3	27.	27.333	29.	26.	2.333	1.528	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	3	6.3	6.367	7.	5.8	0.363	0.603	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	4	335.	385.	560.	310.	13900.	117.898	**	**	**	**

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Annual Analysis for 1976 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	4	30.	32.5	40.	30.	25.	5.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	1	530.	530.	530.	530.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	1	2.724	2.724	2.724	2.724	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			530.								
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	3	249.	253.	265.	245.	112.	10.583	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	3	138.	127.733	148.	97.2	724.213	26.911	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	3	0.4	0.383	0.42	0.33	0.002	0.047	**	**	**	**

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Annual Analysis for 1977 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	11.75	12.563	22.5	2.5	57.103	7.557	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	19.	17.125	29.5	2.	118.768	10.898	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	8	189.	238.625	666.	108.	31435.125	177.3	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	2.695	2.798	3.83	2.38	0.196	0.443	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	3	5.	5.	10.	0.	25.	5.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	8	480.	468.75	510.	370.	2412.5	49.117	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	8	8.25	8.125	8.4	7.5	0.085	0.292	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	8	8.247	8.017	8.4	7.5	0.098	0.314	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	8	0.006	0.01	0.032	0.004	0.	0.009	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	3	1.9	2.1	3.	1.4	0.67	0.819	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	3	184.	181.333	200.	160.	405.333	20.133	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	3	224.	218.	240.	190.	652.	25.534	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	3	220.	220.	240.	200.	400.	20.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	3	39.	41.667	48.	38.	30.333	5.508	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	3	66.	66.333	71.	62.	20.333	4.509	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	3	14.	13.333	14.	12.	1.333	1.155	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	3	10.	8.867	11.	5.6	8.253	2.873	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	3	0.3	0.267	0.3	0.2	0.003	0.058	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	3	9.	8.	9.	6.	3.	1.732	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	3	3.3	3.233	3.7	2.7	0.253	0.503	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	3	16.	14.667	17.	11.	10.333	3.215	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	3	26.	26.333	30.	23.	12.333	3.512	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	3	7.6	6.667	8.	4.4	3.893	1.973	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	3	1000.	780.	1200.	140.	317200.	563.205	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	3	40.	36.667	50.	20.	233.333	15.275	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	3	251.	247.	272.	218.	741.	27.221	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	3	138.	230.333	423.	130.	27856.333	166.902	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	3	0.37	0.363	0.4	0.32	0.002	0.04	**	**	**	**

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Annual Analysis for 1978 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	11.25	12.	22.5	0.5	85.5	9.247	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	22.	15.417	30.	-4.5	243.942	15.619	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	8	242.5	282.125	550.	115.	26300.982	162.176	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	3	2.98	2.947	3.44	2.42	0.261	0.511	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	3	5.	6.667	10.	5.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	7	485.	500.714	570.	450.	1936.905	44.01	**	**	**	**

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Annual Analysis for 1978 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	7	8.3	8.114	8.4	7.4	0.125	0.353	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	7	8.3	7.955	8.4	7.4	0.155	0.393	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	7	0.005	0.011	0.04	0.004	0.	0.013	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	3	1.8	1.933	2.4	1.6	0.173	0.416	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	3	180.	180.	200.	160.	400.	20.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	3	220.	220.	240.	200.	400.	20.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	3	220.	216.667	250.	180.	1233.333	35.119	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	3	42.	36.667	50.	18.	277.333	16.653	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	3	66.	66.667	74.	60.	49.333	7.024	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	3	14.	12.267	15.	7.8	15.213	3.9	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	3	10.	9.7	12.	7.1	6.07	2.464	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	3	8.	8.667	10.	8.	1.333	1.155	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	3	3.8	3.533	4.1	2.7	0.543	0.737	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	3	18.	17.333	21.	13.	16.333	4.041	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	3	34.	31.667	34.	27.	16.333	4.041	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	3	6.6	7.233	9.4	5.7	3.723	1.93	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	3	270.	390.	720.	180.	83700.	289.31	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	3	30.	25.	40.	5.	325.	18.028	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	3	269.	257.	280.	222.	949.	30.806	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	3	133.	207.667	368.	122.	19310.333	138.962	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	3	0.4	0.383	0.41	0.34	0.001	0.038	**	**	**	**

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Annual Analysis for 1979 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	12.75	13.	24.	2.5	62.071	7.879	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	17.	15.188	27.	-1.	123.71	11.122	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	8	336.5	406.5	854.	173.	50902.	225.615	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	3.115	3.225	4.22	2.62	0.265	0.515	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	3	440.	451.667	485.	430.	858.333	29.297	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	3	8.2	8.2	8.3	8.1	0.01	0.1	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	3	8.2	8.192	8.3	8.1	0.01	0.1	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	3	0.006	0.006	0.008	0.005	0.	0.001	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	1	320.	320.	320.	320.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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Annual Analysis for 1979 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	1	231.	231.	231.	231.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	1	366.	366.	366.	366.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**

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Annual Analysis for 1980 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	9	11.	11.6	22.	1.	60.24	7.761	1.	3.5	18.5	22.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	9	16.	13.667	27.	-7.	183.5	13.546	2.	-5.	26.5	27.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	9	213.	283.	719.	106.	38258.75	195.598	106.	137.	386.	719.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	8	2.69	2.878	3.91	2.32	0.305	0.552	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	1	442.	442.	442.	442.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	1	40.	40.	40.	40.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	1	232.	232.	232.	232.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	1	204.	204.	204.	204.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**

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Annual Analysis for 1981 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	15.05	14.308	22.	0.	48.803	6.986	1.5	9.	20.	21.88
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	22.5	17.75	28.	3.	79.295	8.905	3.9	8.25	25.25	27.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	12	178.	253.417	1140.	99.	81970.447	286.305	99.6	114.75	243.5	883.5
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	10	2.72	2.83	4.82	2.08	0.564	0.751	2.103	2.385	2.875	4.636
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	4	4.	3.875	7.	0.5	7.729	2.78	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	4	485.5	483.5	510.	453.	915.	30.249	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	3	12.2	11.867	14.8	8.6	9.693	3.113	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	4	7.7	7.6	7.8	7.2	0.073	0.271	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	4	7.7	7.527	7.8	7.2	0.08	0.284	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	4	0.02	0.03	0.063	0.016	0.	0.022	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	4	230.	227.5	240.	210.	158.333	12.583	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	4	68.	67.75	73.	62.	20.25	4.5	**	**	**	**

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Annual Analysis for 1981 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	4	14.	14.	15.	13.	0.667	0.816	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	4	13.	12.825	16.	9.3	7.522	2.743	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	4	0.4	0.4	0.5	0.3	0.007	0.082	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	4	10.5	10.75	13.	9.	2.917	1.708	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	4	3.65	3.475	3.9	2.7	0.282	0.532	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	4	21.	20.25	24.	15.	14.25	3.775	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	4	35.	33.5	38.	26.	27.	5.196	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	4	0.3	0.275	0.3	0.2	0.002	0.05	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	4	5.05	5.	6.7	3.2	2.527	1.59	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	4	225.	292.5	620.	100.	57158.333	239.078	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	4	20.	23.75	50.	5.	422.917	20.565	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	4	277.	269.5	287.	237.	508.333	22.546	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	4	98.	123.05	212.	84.2	3582.81	59.857	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	4	0.42	0.418	0.45	0.38	0.001	0.03	**	**	**	**

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Annual Analysis for 1982 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	13.6	12.65	23.	3.5	39.319	6.27	3.8	6.	18.25	21.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	12	17.	15.333	31.	-2.	91.333	9.557	6.	5.5	21.75	29.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	12	237.5	279.	583.	100.	30411.818	174.39	100.6	114.75	418.75	558.4
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	11	2.73	2.843	3.6	2.35	0.228	0.477	2.352	2.41	3.28	3.564
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	2	6.5	6.5	10.	3.	24.5	4.95	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	2	489.5	489.5	556.	423.	8844.5	94.045	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	2	8.1	8.1	8.2	8.	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	2	8.089	8.089	8.2	8.	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	2	0.008	0.008	0.01	0.006	0.	0.003	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	2	230.	230.	250.	210.	800.	28.284	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	2	67.	67.	75.	59.	128.	11.314	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	2	14.5	14.5	15.	14.	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	2	13.	13.	14.	12.	2.	1.414	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	2	11.	11.	11.	11.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	2	3.2	3.2	3.8	2.6	0.72	0.849	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	2	18.5	18.5	20.	17.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	2	29.	29.	35.	23.	72.	8.485	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	2	5.95	5.95	7.1	4.8	2.645	1.626	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	2	290.	290.	440.	140.	45000.	212.132	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	2	35.	35.	50.	20.	450.	21.213	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	2	262.	262.	295.	229.	2178.	46.669	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	2	185.5	185.5	269.	102.	13944.5	118.087	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	2	0.4	0.4	0.45	0.35	0.005	0.071	**	**	**	**

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Annual Analysis for 1983 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	13	11.	12.569	23.	3.	33.354	5.775	4.6	8.	18.25	21.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	13	16.	16.346	29.	2.	75.641	8.697	3.6	8.5	24.5	28.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	13	273.	380.308	1060.	113.	109499.397	330.907	113.4	123.	574.	1018.8

** - 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 1983 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	12	2.95	3.108	4.6	2.41	0.597	0.773	2.41	2.443	3.755	4.513
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	2	430.5	430.5	476.	385.	4140.5	64.347	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	2	10.4	10.4	10.8	10.	0.32	0.566	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	2	8.047	8.047	8.1	8.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	2	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	2	61.	61.	69.	53.	128.	11.314	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	2	14.	14.	15.	13.	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/63-03/16/83	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	2	2.85	2.85	3.	2.7	0.045	0.212	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	2	17.5	17.5	18.	17.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	2	16.5	16.5	23.	10.	84.5	9.192	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	2	7.8	7.8	8.3	7.3	0.5	0.707	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	1	234.	234.	234.	234.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	1	171.	171.	171.	171.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**

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Annual Analysis for 1984 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	7.5	10.	22.	2.	52.4	7.239	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	6	10.	12.333	27.	2.	97.067	9.852	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	6	299.	417.667	1000.	168.	102537.867	320.215	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	6	3.015	3.215	4.41	2.62	0.463	0.681	**	**	**	**

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Annual Analysis for 1985 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	17.85	15.213	23.	2.	54.561	7.387	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	8	20.25	16.813	27.	-5.	137.996	11.747	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	8	179.	236.25	652.	100.	32129.929	179.248	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	7	2.75	2.83	3.7	2.47	0.185	0.43	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	1	551.	551.	551.	551.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	1	71.	71.	71.	71.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	1	300.	300.	300.	300.	0.	0.	**	**	**	**

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Annual Analysis for 1985 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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Annual Analysis for 1986 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	4	11.8	12.65	21.	6.	43.69	6.61	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	4	15.	16.25	30.	5.	122.917	11.087	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	4	191.	217.5	396.	92.	22355.667	149.518	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	3	2.33	2.54	2.97	2.32	0.139	0.372	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	1	505.	505.	505.	505.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	1	10.9	10.9	10.9	10.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	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 box-and-whisker plot

Annual Analysis for 1987 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	18.	14.4	21.	5.	48.8	6.986	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	5	24.	20.2	29.	9.	82.7	9.094	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	5	198.	215.6	363.	119.	8292.3	91.062	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	5	2.73	2.756	3.16	2.44	0.07	0.265	**	**	**	**

** - Less 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 HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	1	302.	302.	302.	302.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	1	3.02	3.02	3.02	3.02	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	1	552.	552.	552.	552.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/63-06/07/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	100	18.5	17.771	25.5	6.	20.289	4.504	11.	15.	22.	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	73	22.	21.788	34.5	6.5	45.131	6.718	13.	16.5	26.5	30.
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	31	128.	136.742	299.	54.	4116.265	64.158	61.	88.	160.	235.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	96	129.5	182.271	1030.	55.	32243.821	179.566	78.4	107.25	174.5	243.2
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	69	2.44	2.571	4.47	2.15	0.205	0.453	2.27	2.33	2.63	2.8
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	30	5.	5.65	20.	0.	23.503	4.848	0.55	1.75	7.	10.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	48	485.	476.021	570.	370.	2177.212	46.661	409.	450.	506.25	540.
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	18	8.95	8.967	11.	7.6	0.898	0.947	7.78	8.	9.7	10.46
00400p	PH (STANDARD UNITS)	08/09/63-06/07/94	47	8.	7.872	8.4	7.	0.156	0.395	7.2	7.7	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	47	8.	7.664	8.4	7.	0.2	0.448	7.2	7.7	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	47	0.01	0.022	0.1	0.004	0.001	0.026	0.005	0.006	0.02	0.063
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	29	3.3	8.062	41.	1.2	119.576	10.935	1.8	2.4	7.2	25.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	36	194.	189.	212.	138.	264.8	16.273	163.4	184.	200.	206.5
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	36	234.5	229.611	258.	168.	398.244	19.956	199.1	217.25	243.5	251.8
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	28	0.	0.464	8.	0.	2.776	1.666	0.	0.	0.	1.3
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/04/65-09/12/73	15	3.2	2.861	4.5	0.07	1.903	1.379	0.352	1.8	4.1	4.44
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/17/73-04/02/86	11	3.6	3.467	4.7	0.54	1.377	1.173	0.992	2.9	4.5	4.68
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/69-06/07/94	15	0.38	0.47	0.96	0.17	0.043	0.207	0.212	0.34	0.64	0.804
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	38	237.5	230.763	261.	177.	473.807	21.767	193.6	221.	244.5	251.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	36	42.	41.25	65.	0.	169.164	13.006	24.	35.	49.75	57.5
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	38	71.	69.	83.	36.	68.108	8.253	57.9	67.	73.25	77.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	38	15.	14.379	35.	3.9	20.074	4.48	10.54	13.	16.	16.
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	36	10.5	10.908	18.	5.7	10.259	3.203	6.77	8.725	13.	17.
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	36	0.3	0.336	1.	0.2	0.021	0.146	0.2	0.3	0.4	0.5
00932	SODIUM, PERCENT	08/09/63-03/16/83	36	8.5	9.417	25.	5.	12.364	3.516	6.	8.	11.	13.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	36	3.85	3.906	5.	3.1	0.226	0.476	3.2	3.6	4.2	4.6
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	39	17.	17.615	27.	7.	15.453	3.931	13.	15.	20.	23.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	39	31.	31.487	42.	25.	10.888	3.3	27.	29.	34.	35.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	38	0.3	0.321	0.5	0.2	0.004	0.062	0.29	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	37	6.5	6.311	10.	2.3	3.488	1.868	3.88	5.15	7.65	8.82
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	29	140.	187.931	560.	0.	18045.567	134.334	20.	85.	280.	320.
01046	IRON, DISSOLVED (UG/L AS FE)	11/07/67-04/02/86	9	23.	27.889	50.	5.	217.861	14.76	5.	20.	41.5	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	31	20.	21.226	60.	0.	338.247	18.392	0.	5.	30.	56.4
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/69-04/02/86	9	10.	54.111	350.	5.	12592.611	112.217	5.	7.	39.5	350.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	17	520.	874.706	5200.	140.	1572101.471	1253.835	156.	180.	1000.	2880.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	17	2.716	2.685	3.716	2.146	0.203	0.45	2.193	2.255	2.98	3.433
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			484.502								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/63-04/02/86	21	298.	301.286	336.	265.	410.214	20.254	274.	286.5	318.5	330.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	35	280.	276.771	306.	221.	401.534	20.038	243.8	266.	288.	300.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	38	103.5	118.445	472.	45.3	5297.814	72.786	57.77	82.4	129.5	184.1
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	38	0.39	0.39	0.46	0.3	0.001	0.036	0.347	0.37	0.41	0.432
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	28	13.5	11.714	20.	0.3	31.485	5.611	0.4	9.525	15.75	19.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/04/59-12/05/72	1	11.	11.	11.	11.	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 #2: 11/01 to 3/20 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	141	5.5	5.448	15.	0.	7.849	2.802	2.	3.5	7.	9.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	94	7.5	4.656	27.	-8.	43.008	6.558	1.95	4.	-5.	13.25
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	29	266.	310.828	855.	54.	42810.862	206.908	97.	163.5	390.5	670.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	137	273.	354.423	1150.	9.	68261.599	261.269	101.6	161.5	497.5	704.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	97	2.92	2.961	4.96	2.08	0.319	0.565	2.328	2.52	3.29	3.604
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	37	3.	4.541	50.	0.	68.422	8.272	0.	0.	5.	9.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	56	456.5	443.518	545.	310.	2660.763	51.583	380.	401.	480.	509.3
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	26	12.	11.946	14.8	10.	1.521	1.233	10.34	11.	12.375	14.11

** - Less 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: 11/01 to 3/20 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	08/09/63-06/07/94	54	7.9	7.889	8.7	6.8	0.177	0.421	7.25	7.6	8.2	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	54	7.9	7.674	8.7	6.8	0.224	0.473	7.25	7.6	8.2	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	54	0.013	0.021	0.158	0.002	0.001	0.027	0.004	0.006	0.025	0.057
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	38	3.3	5.	26.	0.6	25.798	5.079	1.17	1.775	7.025	11.4
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	44	166.	163.023	198.	102.	504.162	22.454	126.	153.25	179.75	188.
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	44	201.5	197.545	241.	124.	759.184	27.553	154.	180.5	219.5	229.
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	39	0.	0.744	9.	0.	4.564	2.136	0.	0.	0.	5.
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/04/65-09/12/73	20	3.45	3.35	4.1	1.5	0.409	0.639	2.52	2.9	3.8	3.98
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/17/73-04/02/86	13	3.6	3.7	4.2	3.2	0.09	0.3	3.28	3.5	4.	4.16
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/69-06/07/94	12	0.295	0.292	0.52	0.12	0.013	0.113	0.126	0.208	0.378	0.484
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	47	210.	205.766	244.	139.	591.401	24.319	167.8	194.	222.	234.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	44	42.	42.068	55.	30.	39.181	6.259	34.5	38.	46.5	52.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	47	62.	60.553	73.	41.	54.035	7.351	47.8	57.	66.	69.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	47	13.	13.226	25.	7.8	6.572	2.563	10.	12.	14.	15.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	47	7.9	10.766	98.	4.2	178.953	13.377	6.	6.8	11.	13.6
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	47	0.2	0.319	2.8	0.2	0.146	0.382	0.2	0.2	0.3	0.42
00932	SODIUM, PERCENT	08/09/63-03/16/83	46	7.5	8.37	14.	5.	5.571	2.36	6.	7.	10.	12.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	46	3.1	3.283	6.5	2.5	0.485	0.697	2.57	2.875	3.6	4.
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	47	14.	15.553	26.	7.	15.948	3.994	12.	13.	18.	21.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	47	28.	28.489	38.	22.	11.734	3.425	24.	26.	30.	34.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	47	0.2	0.243	0.5	0.	0.006	0.077	0.2	0.2	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	47	6.9	6.404	9.4	0.2	3.895	1.974	3.36	5.	7.8	8.4
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	38	150.	290.	1600.	10.	103464.865	321.66	60.	117.5	362.5	699.
01046	IRON, DISSOLVED (UG/L AS FE)	11/07/67-04/02/86	9	19.	26.222	90.	5.	758.944	27.549	5.	6.	40.	90.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	41	30.	40.	380.	0.	3707.5	60.889	0.	15.	40.	88.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/69-04/02/86	8 ##	5.	7.375	19.	3.	29.125	5.397	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	23	130.	1212.391	11000.	3.	6763860.885	2600.742	18.2	58.	1000.	5000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	23	2.114	2.258	4.041	0.477	0.785	0.886	1.234	1.763	3.	3.694
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			181.258								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/63-04/02/86	16	272.5	274.625	315.	201.	900.25	30.004	222.7	260.25	298.25	312.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	46	247.5	247.174	302.	182.	680.902	26.094	213.9	232.	268.25	282.9
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	47	176.	213.998	502.	53.2	12446.303	111.563	99.2	135.	270.	370.2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	47	0.35	0.343	0.43	0.25	0.002	0.042	0.27	0.32	0.37	0.402
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	33	15.	14.748	20.	6.6	8.185	2.861	11.	13.	17.	17.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/04/59-12/05/72	13	508.	748.031	2320.	2.3	573762.457	757.471	2.62	80.5	1425.	2080.

** - Less 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: 3/21 to 7/31 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/50-06/07/94	119	17.	16.877	28.	6.	26.948	5.191	9.	13.5	21.	23.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/12/50-06/07/94	83	23.	20.902	32.	1.9	58.823	7.67	8.	16.	27.	29.5
00060	FLOW, STREAM, MEAN DAILY CFS	08/09/63-09/19/72	29	304.	316.759	835.	80.	38782.618	196.933	85.	170.	402.5	695.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/12/50-06/07/94	119	290.	368.269	1260.	66.	66860.622	258.574	145.	186.	435.	778.
00065	STAGE, STREAM (FEET)	09/12/50-06/07/94	83	2.84	3.011	4.71	2.22	0.284	0.533	2.488	2.64	3.18	3.81
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/63-04/02/86	39	3.	3.564	18.	0.	10.779	3.283	0.	1.	5.	7.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/63-06/07/94	51	430.	425.902	552.	285.	3312.25	57.552	343.6	390.	470.	499.
00300	OXYGEN, DISSOLVED MG/L	07/17/69-06/07/94	22	9.15	9.405	13.4	6.8	2.628	1.621	7.63	7.95	10.2	12.11
00400p	PH (STANDARD UNITS)	08/09/63-06/07/94	51	7.9	7.902	8.4	7.2	0.088	0.297	7.4	7.7	8.1	8.3
00400p	CONVERTED PH (STANDARD UNITS)	08/09/63-06/07/94	51	7.9	7.793	8.4	7.2	0.1	0.317	7.4	7.7	8.1	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/63-06/07/94	51	0.013	0.016	0.063	0.004	0.	0.013	0.005	0.008	0.02	0.04
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/63-03/20/79	34	4.3	4.697	10.	1.2	7.575	2.752	1.7	2.5	6.625	9.55
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/63-06/10/83	42	167.	161.5	200.	103.	565.622	23.783	116.9	152.	179.	185.5
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/63-03/20/79	40	201.	196.075	240.	125.	879.866	29.663	139.6	183.25	218.	227.4
00445	CARBONATE ION (MG/L AS CO3)	08/09/63-03/20/79	35	0.	0.143	4.	0.	0.479	0.692	0.	0.	0.	0.
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/04/65-09/12/73	18	3.2	3.056	4.	2.1	0.3	0.548	2.1	2.65	3.425	3.64

** - 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

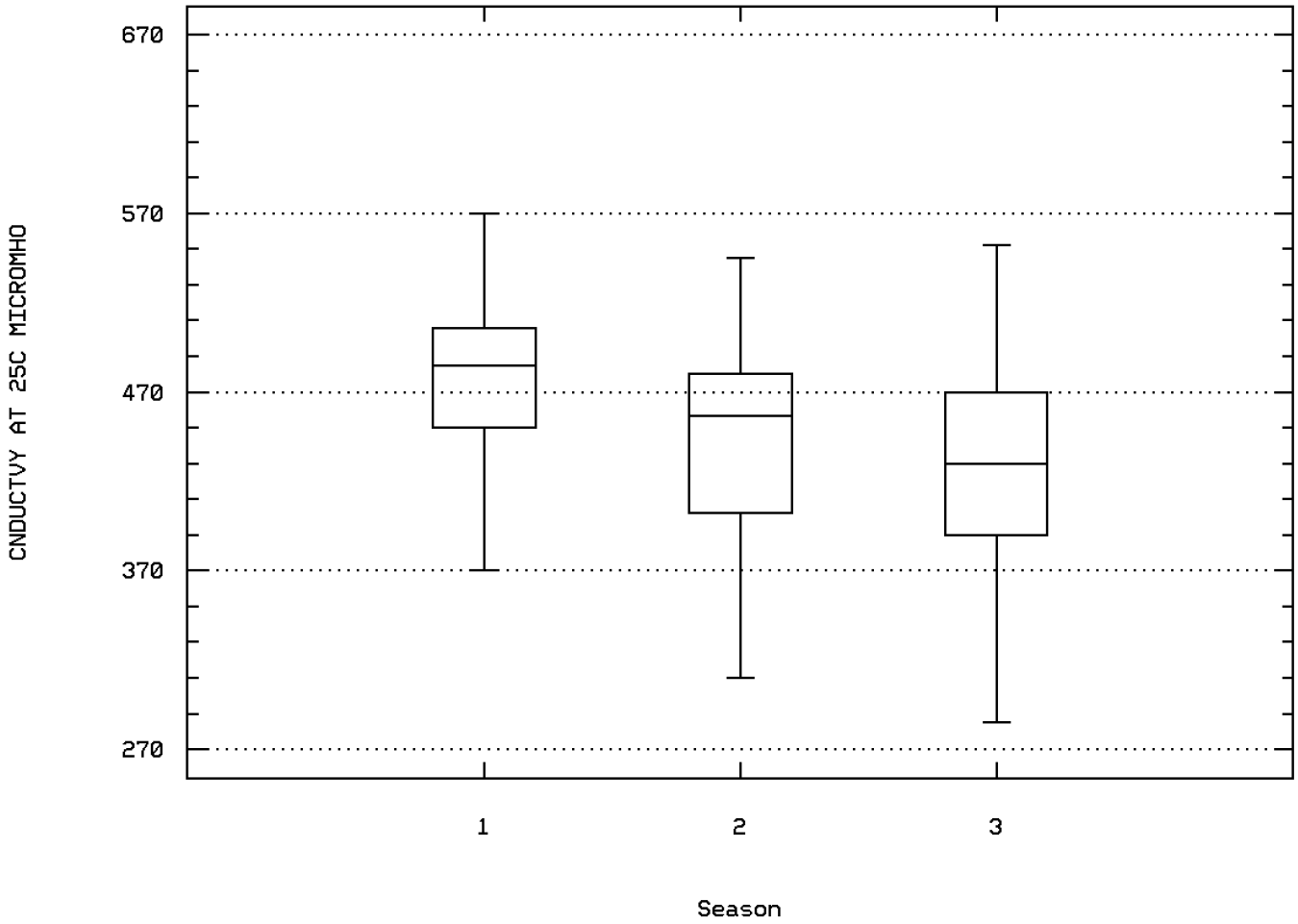
Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/17/73-04/02/86	14	3.6	3.614	4.8	2.9	0.321	0.567	2.95	3.075	4.075	4.55
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/69-06/07/94	16	0.19	0.213	0.45	0.1	0.01	0.1	0.107	0.13	0.245	0.422
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/63-03/16/83	43	208.	202.279	240.	130.	725.349	26.932	157.2	189.	222.	231.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/63-06/13/80	41	41.	40.805	59.	18.	71.411	8.451	29.2	36.	45.5	53.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/63-04/02/86	45	62.	60.822	73.	39.	65.786	8.111	46.	58.	66.5	69.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/63-04/02/86	45	13.	12.593	15.	7.6	3.698	1.923	9.24	12.	14.	14.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/63-04/02/86	45	6.8	7.422	13.	3.9	3.815	1.953	5.66	6.	8.65	10.4
00931	SODIUM ADSORPTION RATIO	08/09/63-03/16/83	43	0.2	0.228	0.4	0.1	0.003	0.059	0.2	0.2	0.3	0.3
00932	SODIUM, PERCENT	08/09/63-03/16/83	43	7.	7.302	11.	5.	2.597	1.611	5.	6.	8.	9.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/63-04/02/86	45	3.1	3.138	4.5	2.5	0.222	0.471	2.6	2.7	3.4	3.74
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/63-04/02/86	45	12.	12.911	20.	7.	7.765	2.787	9.6	11.	14.5	17.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/63-04/02/86	45	26.	25.978	36.	10.	15.977	3.997	22.2	24.	28.	30.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/63-04/02/86	45	0.2	0.269	1.	0.1	0.017	0.131	0.2	0.2	0.3	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/63-04/02/86	45	6.7	6.453	11.	0.6	3.573	1.89	3.66	5.7	7.65	8.18
01045	IRON, TOTAL (UG/L AS FE)	10/14/63-04/02/86	38	270.	417.895	1500.	50.	134011.664	366.076	99.	155.	567.5	1020.
01046	IRON, DISSOLVED (UG/L AS FE)	11/07/67-04/02/86	10	7.5	15.8	60.	4.	316.622	17.794	4.1	5.	22.75	57.1
01055	MANGANESE, TOTAL (UG/L AS MN)	10/14/63-04/02/86	41	40.	46.951	380.	0.	3491.098	59.086	6.	20.	55.	78.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/08/69-04/02/86	10	18.	14.6	21.	2.	48.711	6.979	2.3	8.75	20.	20.9
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	17	1000.	2340.059	12000.	21.	10670197.559	3266.527	76.2	460.	3100.	8800.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/17/69-08/31/76	17	3.	2.968	4.079	1.322	0.482	0.695	1.828	2.662	3.462	3.938
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			929.832								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/63-04/02/86	16	266.	258.688	307.	193.	1369.963	37.013	197.2	231.25	288.75	304.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/63-03/16/83	42	240.5	235.405	289.	167.	783.857	27.997	192.7	221.5	256.	271.7
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/09/63-03/16/83	43	210.	227.872	559.	55.4	14158.839	118.991	87.52	131.	285.	412.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/63-03/16/83	43	0.33	0.331	0.42	0.23	0.002	0.04	0.274	0.3	0.36	0.386
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/63-09/12/73	30	14.	13.483	20.	9.1	6.485	2.547	9.64	11.75	15.	16.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/04/59-12/05/72	5	1550.	1369.6	2790.	186.	1262084.8	1123.425	**	**	**	**

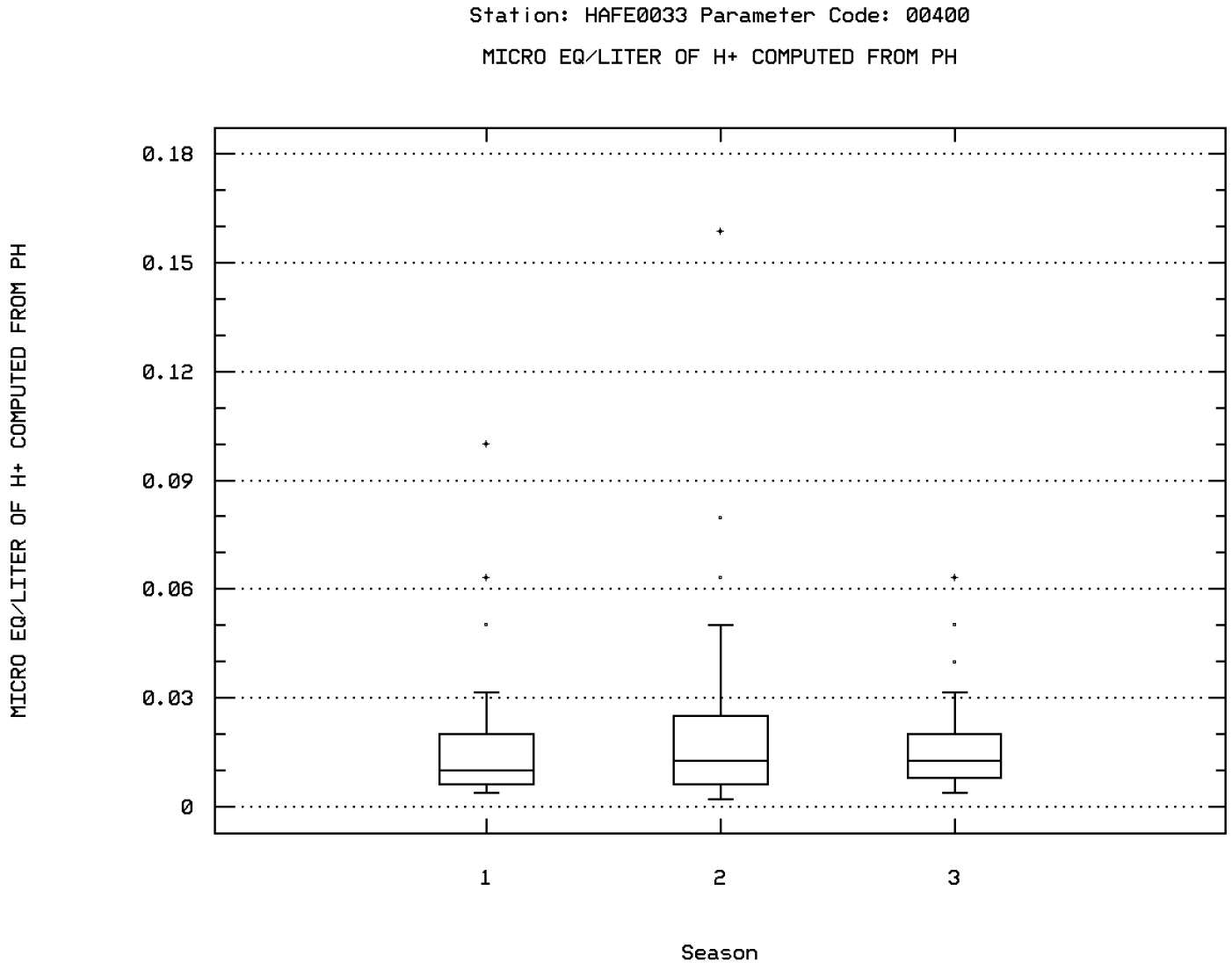
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: HAFE0033 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



ANTIETAM C NR SHARPSBURG, MD



ANTIETAM C NR SHARPSBURG, MD

Station Inventory for Station: HAFE0034

NPS Station ID: HAFE0034 LAT/LON: 39.450254/ -77.731920 Agency: 21MD Date Created: 10/06/79
Location: AT GAGING STA. JUST BELOW BURNSIDE BRIDGE NR. SH FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): ANT0044
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004002 RF1 Mile Point: 3.490 Distance from RF1: 13.70 On/Off RF1: OFF
RF3 Index: 02070004011900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.48 On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE ANTIETAM CREEK RIVER MILE IS 4.40
RECEIVING TRIBUTARY IS POTOMAC RIVER AT GAGING STA. JUST BELOW BURNSIDE BRIDGE NR. SHARPSBURG USGS-01619500

Parameter Inventory for Station: HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	84	17.75	16.394	26.5	1.	45.481	6.744	6.35	11.15	21.975	24.5
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	69	211.	286.986	940.	70.	38513.779	196.249	108.	143.	385.	618.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	77	12.	22.983	656.	2.6	5548.25	74.487	3.5	5.7	17.25	34.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	79	400.	387.063	550.	192.	6292.445	79.325	273.	340.	441.	475.
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	85	8.9	9.626	17.1	5.2	4.57	2.138	7.46	8.	11.4	13.
00400	PH (STANDARD UNITS)	03/21/66-06/02/81	56	8.	8.05	9.	7.3	0.15	0.387	7.6	7.8	8.275	8.7
00400	CONVERTED PH (STANDARD UNITS)	03/21/66-06/02/81	56	8.	7.903	9.	7.3	0.172	0.415	7.6	7.8	8.275	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/66-06/02/81	56	0.01	0.013	0.05	0.001	0.	0.011	0.002	0.005	0.016	0.025
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	45	8.	7.909	8.8	7.1	0.159	0.398	7.36	7.6	8.2	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	45	8.	7.73	8.8	7.1	0.191	0.437	7.36	7.6	8.2	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	45	0.01	0.019	0.079	0.002	0.	0.019	0.004	0.006	0.025	0.044
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	66	0.2	0.211	0.4	0.1	0.003	0.053	0.2	0.2	0.2	0.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	77	13.	34.526	942.	0.5	12025.901	109.663	2.	4.5	28.	56.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/75-06/02/81	36	0.04	0.081	0.58	0.01	0.012	0.112	0.01	0.02	0.08	0.209
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	60	0.031	0.045	0.38	0.001	0.003	0.052	0.014	0.021	0.05	0.086
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/21/66-06/02/81	70	3.105	2.804	4.22	0.02	1.037	1.018	1.205	2.075	3.625	3.933
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/75-06/02/81	36	0.51	0.532	1.5	0.12	0.081	0.285	0.234	0.335	0.65	0.864
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	66	0.215	0.247	0.9	0.005	0.025	0.158	0.087	0.138	0.34	0.452
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/08/75-04/08/81	39	19.5	20.933	61.5	2.	254.344	15.948	3.	7.	29.	48.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/21/66-06/02/81	65	4300.	15473.077	460000.	230.	3236681599.76	56891.841	930.	2300.	9300.	23000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/21/66-06/02/81	65	3.633	3.688	5.663	2.362	0.327	0.572	2.968	3.362	3.968	4.362
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			4872.696								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	65	750.	9251.015	460000.	43.	3243106447.672	56948.279	93.	220.	2300.	6300.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	65	2.875	2.881	5.663	1.633	0.567	0.753	1.968	2.342	3.362	3.767
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			760.612								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	77	276.	290.675	1732.	92.	31932.512	178.697	205.	239.	300.	341.2

** - 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: HAFE0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	77	4	0.05	19	0	0.00	17	2	0.12	41	2	0.05			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	85	0	0.00	27	0	0.00	17	0	0.00	41	0	0.00			
00400	PH	Other-Hi Lim.	9.	56	2	0.04	23	1	0.04	7	0	0.00	26	1	0.04			
		Other-Lo Lim.	6.5	56	0	0.00	23	0	0.00	7	0	0.00	26	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	45	0	0.00	10	0	0.00	12	0	0.00	23	0	0.00			
		Other-Lo Lim.	6.5	45	0	0.00	10	0	0.00	12	0	0.00	23	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	60	0	0.00	16	0	0.00	15	0	0.00	29	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	70	0	0.00	18	0	0.00	16	0	0.00	36	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	65	54	0.83	16	16	1.00	15	13	0.87	34	25	0.74			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	65	50	0.77	16	15	0.94	15	7	0.47	34	28	0.82			

& - 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 1966 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	10	15.9	16.61	25.2	5.	58.261	7.633	5.12	10.55	24.625	25.18
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	10	110.	116.5	162.	70.	1172.722	34.245	70.8	84.	150.75	162.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	10	3.9	4.66	7.7	3.	2.687	1.639	3.	3.375	6.4	7.57
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	9	440.	438.333	500.	380.	1912.5	43.732	380.	392.5	475.	500.
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	10	11.85	11.37	17.1	7.9	8.827	2.971	7.92	8.55	13.1	16.73
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	9	0.2	0.222	0.3	0.2	0.002	0.044	0.2	0.2	0.25	0.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	10	9.	12.2	36.	2.	111.511	10.56	2.2	4.	18.5	34.4
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	10	300.	295.4	368.	236.	2154.711	46.419	236.4	252.	337.	365.2

** - 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 1967 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	2	22.85	22.85	23.	22.7	0.045	0.212	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	2	168.	168.	171.	165.	18.	4.243	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	2	18.75	18.75	20.	17.5	3.125	1.768	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	2	365.	365.	390.	340.	1250.	35.355	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	2	7.5	7.5	8.1	6.9	0.72	0.849	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	2	36.	36.	52.	20.	512.	22.627	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	2	238.	238.	260.	216.	968.	31.113	**	**	**	**

** - 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 1968 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	5	26.	25.64	26.5	24.	0.973	0.986	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	5	8.	8.16	9.5	7.2	0.693	0.832	**	**	**	**

** - Less 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 HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	1	362.	362.	362.	362.	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 1974 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	10	15.25	14.3	22.	5.	40.289	6.347	5.15	6.5	20.	21.95
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	10	199.	305.2	940.	108.	74599.067	273.128	108.9	134.25	373.5	910.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	10 ##	12.5	23.85	68.	12.5	470.503	21.691	12.5	12.5	31.75	67.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	10	400.	430.	550.	380.	2705.556	52.015	381.5	398.75	458.75	542.
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	10	9.3	9.76	13.	7.6	3.332	1.825	7.64	8.45	11.7	12.9
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	10	0.2	0.24	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	10	6.	31.95	210.	0.5	4223.025	64.985	0.55	1.75	27.5	194.9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	10	0.39	0.382	0.9	0.03	0.068	0.26	0.036	0.165	0.518	0.867
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	10	288.	308.7	572.	221.	10472.456	102.335	222.3	243.75	330.5	551.3

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

Annual Analysis for 1975 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	7	10.	10.443	18.	1.	33.423	5.781	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	7	483.	495.714	640.	330.	14122.238	118.837	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	7	12.	13.4	25.	8.1	35.23	5.935	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	7	400.	401.571	465.	321.	2237.286	47.3	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	7	11.8	11.486	13.6	8.4	3.438	1.854	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	7	0.3	0.271	0.4	0.2	0.006	0.076	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	6	15.5	18.667	44.	5.	206.267	14.362	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	7	0.34	0.29	0.37	0.04	0.014	0.117	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	6	268.5	262.	284.	223.	544.4	23.332	**	**	**	**

** - Less 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 HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	4	19.	15.25	21.	2.	79.083	8.893	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	3	326.	334.333	384.	293.	2122.333	46.069	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	5	15.	17.1	22.5	14.	15.3	3.912	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	5	410.	401.6	440.	343.	1415.3	37.62	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	6	7.6	7.583	10.	5.2	2.442	1.563	**	**	**	**
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	5	22.	22.4	36.	6.	122.8	11.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	5	0.1	0.083	0.15	0.005	0.005	0.072	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	5	249.	254.	291.	213.	932.	30.529	**	**	**	**

** - Less 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 HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	12	20.65	19.475	23.	9.	16.393	4.049	10.8	17.75	22.35	22.94
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	9	172.	222.444	716.	105.	35171.778	187.541	105.	143.	196.	716.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	11	33.	88.182	656.	6.	35855.364	189.355	7.6	16.	45.	540.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	12	436.5	427.917	520.	290.	3103.902	55.713	319.1	404.75	455.25	506.5
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	12	7.9	8.208	11.2	7.2	1.154	1.074	7.26	7.625	8.6	10.54
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	12	0.2	0.2	0.2	0.2	0.	0.	0.2	0.2	0.2	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	11	38.	133.727	942.	10.	73681.818	271.444	11.6	23.	87.	785.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	11	0.18	0.201	0.4	0.005	0.011	0.107	0.028	0.15	0.3	0.384

** - Less 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 HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	11	296.	283.909	453.	92.	8792.891	93.77	109.8	227.	330.	431.6

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

Annual Analysis for 1978 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	12	18.	16.225	24.7	2.3	49.988	7.07	4.01	9.975	22.1	24.37
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	11	231.	253.273	420.	112.	12114.418	110.066	115.	144.	386.	415.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	11	10.	11.955	40.	3.	108.373	10.41	3.06	5.2	16.	35.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	12	384.	364.417	444.	210.	5256.447	72.501	234.	303.25	420.	442.2
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	12	9.1	9.958	13.5	7.5	4.672	2.161	7.5	8.35	12.125	13.44
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	12	0.2	0.192	0.2	0.1	0.001	0.029	0.13	0.2	0.2	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	11	8.	14.5	56.	0.5	332.85	18.244	0.8	3.	14.	53.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	11	0.3	0.287	0.44	0.12	0.009	0.097	0.13	0.22	0.34	0.436
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	11	287.	408.545	1732.	205.	193503.273	439.89	211.6	281.	300.	1445.6

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

Annual Analysis for 1979 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	10	17.2	14.14	20.9	3.4	44.865	6.698	3.6	7.35	19.925	20.81
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	10	365.5	402.7	790.	158.	42894.011	207.109	160.7	224.75	567.25	778.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	10	7.75	8.33	18.	2.6	27.538	5.248	2.6	3.35	12.	17.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	10	266.5	273.9	360.	192.	3598.989	59.992	192.3	223.5	335.	359.
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	10	10.25	10.26	12.8	8.3	2.629	1.622	8.31	8.625	11.675	12.74
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	10	0.2	0.16	0.2	0.1	0.003	0.052	0.1	0.1	0.2	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	10	12.	14.85	48.	0.5	200.114	14.146	0.85	4.	19.25	46.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	10	0.125	0.149	0.3	0.08	0.005	0.069	0.081	0.098	0.19	0.292
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	10	233.5	225.6	278.	104.	2511.378	50.114	113.6	203.75	262.	277.9

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

Annual Analysis for 1980 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	7	16.7	16.071	24.5	7.7	35.129	5.927	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	7	174.	280.143	594.	100.	40204.476	200.511	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	7	4.4	7.957	14.	3.5	25.806	5.08	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	7	325.	382.429	550.	273.	12544.619	112.003	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	7	9.3	9.457	11.6	7.4	1.846	1.359	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	7	9.	10.571	31.	2.	94.952	9.744	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	7	0.3	0.287	0.52	0.13	0.02	0.142	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	7	245.	250.857	319.	148.	3709.143	60.903	**	**	**	**

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

Annual Analysis for 1981 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	4	15.6	13.8	17.	7.	21.093	4.593	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	3	6.1	6.767	8.8	5.4	3.223	1.795	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	4	355.	337.5	370.	270.	2091.667	45.735	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	3	10.	10.167	12.	8.5	3.083	1.756	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	4	13.	10.	13.	1.	36.	6.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	4	0.255	0.255	0.36	0.15	0.013	0.116	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	4	250.5	258.	287.	244.	391.333	19.782	**	**	**	**

** - Less 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 10/31 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	27	21.	20.204	26.5	10.2	21.55	4.642	12.98	16.4	24.	26.04
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	19	142.	191.368	670.	70.	28027.801	167.415	100.	110.	158.	640.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	19	10.	12.489	34.	3.	67.812	8.235	3.8	7.7	16.	30.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	21	425.	412.619	550.	250.	5887.048	76.727	286.6	369.	456.	524.
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	27	8.3	8.715	11.8	7.2	1.347	1.161	7.66	8.	9.1	11.12
00400	PH (STANDARD UNITS)	03/21/66-06/02/81	23	8.	8.087	9.	7.6	0.088	0.296	7.64	7.9	8.3	8.36
00400	CONVERTED PH (STANDARD UNITS)	03/21/66-06/02/81	23	8.	8.004	9.	7.6	0.095	0.308	7.64	7.9	8.3	8.36
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/66-06/02/81	23	0.01	0.01	0.025	0.001	0.	0.006	0.004	0.005	0.013	0.023
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	10	8.15	8.11	8.8	7.4	0.152	0.39	7.43	7.85	8.325	8.76
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	10	8.147	7.95	8.8	7.4	0.181	0.425	7.43	7.85	8.325	8.76
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	10	0.007	0.011	0.04	0.002	0.	0.011	0.002	0.005	0.014	0.038
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	19	0.2	0.2	0.3	0.1	0.001	0.033	0.2	0.2	0.2	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	18	10.	15.778	62.	1.	255.242	15.976	1.9	4.	20.5	40.4
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	16	0.023	0.025	0.062	0.013	0.	0.011	0.014	0.02	0.028	0.042
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/21/66-06/02/81	18	2.85	2.689	4.22	0.02	1.647	1.283	0.299	1.85	3.833	4.139
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	16	0.3	0.296	0.57	0.03	0.024	0.155	0.072	0.18	0.4	0.535
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/21/66-06/02/81	16	9300.	40631.25	460000.	2300.	12674739625.	112582.146	2300.	4300.	21000.	168100.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/21/66-06/02/81	16	3.968	4.027	5.663	3.362	0.341	0.584	3.362	3.633	4.315	4.942
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			10640.561								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	16	1215.	31510.813	460000.	43.	13086673391.896	114396.999	173.9	430.	3800.	154100.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	16	3.072	3.204	5.663	1.633	0.813	0.902	2.143	2.633	3.566	4.752
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1598.713								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	18	287.	276.833	346.	104.	3102.029	55.696	215.6	246.5	319.	340.6

** - 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: 11/01 to 3/20 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	17	6.5	6.635	19.2	1.	17.305	4.16	1.8	4.2	7.85	12.72
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	16	328.	359.75	790.	86.	52328.6	228.754	104.2	137.25	574.	738.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	17	8.7	16.794	80.	2.6	499.981	22.36	2.6	4.25	16.	70.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	16	370.5	340.875	465.	192.	9802.383	99.007	194.1	242.25	422.5	465.
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	17	12.	11.806	13.6	7.6	2.244	1.498	9.52	11.4	13.	13.36
00400	PH (STANDARD UNITS)	03/21/66-06/02/81	7	8.1	8.057	8.4	7.7	0.086	0.294	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/21/66-06/02/81	7	8.1	7.977	8.4	7.7	0.094	0.306	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/66-06/02/81	7	0.008	0.011	0.02	0.004	0.	0.007	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	12	7.45	7.525	8.2	7.1	0.129	0.36	7.1	7.225	7.75	8.17
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	12	7.447	7.413	8.2	7.1	0.143	0.378	7.1	7.225	7.75	8.17
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	12	0.036	0.039	0.079	0.006	0.001	0.025	0.007	0.018	0.06	0.079
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	14	0.3	0.243	0.4	0.1	0.009	0.094	0.1	0.175	0.3	0.35
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	17	8.	31.912	210.	0.5	3539.007	59.49	1.7	4.5	20.	170.8
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	15	0.049	0.071	0.38	0.001	0.008	0.09	0.011	0.03	0.085	0.22
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/21/66-06/02/81	16	3.39	3.159	4.09	1.1	0.683	0.827	1.73	2.663	3.763	4.083
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	15	0.3	0.312	0.9	0.1	0.043	0.208	0.1	0.11	0.42	0.648
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/21/66-06/02/81	15	2300.	8384.	43000.	230.	132151854.286	11495.732	650.	1500.	9300.	31000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/21/66-06/02/81	15	3.362	3.577	4.633	2.362	0.359	0.599	2.726	3.176	3.968	4.47
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3775.069								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	15	150.	977.333	9300.	43.	5568675.952	2359.804	62.2	93.	430.	4980.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	15	2.176	2.429	3.968	1.633	0.389	0.624	1.778	1.968	2.633	3.581
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			268.505								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	17	276.	265.412	365.	181.	2707.882	52.037	196.2	214.	302.	341.8

** - 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: 3/21 to 7/31 - Station HAFE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/66-06/02/81	40	18.25	17.97	25.	8.	21.221	4.607	10.13	15.05	22.15	22.98
00060	FLOW, STREAM, MEAN DAILY CFS	03/21/66-12/02/80	34	276.	306.176	940.	78.	32077.604	179.102	143.5	171.75	388.5	553.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/21/66-06/02/81	41	12.5	30.412	656.	3.	10186.012	100.926	3.64	6.05	19.	39.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/66-06/02/81	42	390.	391.881	550.	255.	4322.205	65.743	295.3	348.25	438.5	480.5
00300	OXYGEN, DISSOLVED MG/L	03/21/66-06/02/81	41	8.8	9.322	17.1	5.2	5.149	2.269	7.24	7.8	10.4	12.96
00400	PH (STANDARD UNITS)	03/21/66-06/02/81	26	8.	8.015	9.	7.3	0.229	0.479	7.37	7.675	8.225	8.83
00400	CONVERTED PH (STANDARD UNITS)	03/21/66-06/02/81	26	8.	7.814	9.	7.3	0.271	0.521	7.37	7.675	8.225	8.83
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/66-06/02/81	26	0.01	0.015	0.05	0.001	0.	0.014	0.001	0.006	0.021	0.043
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	23	8.	8.022	8.6	7.6	0.078	0.28	7.64	7.8	8.3	8.46
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	23	8.	7.944	8.6	7.6	0.085	0.291	7.64	7.8	8.3	8.46
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	23	0.01	0.011	0.025	0.003	0.	0.007	0.003	0.005	0.016	0.023
00480	SALINITY - PARTS PER THOUSAND	03/21/66-12/03/79	33	0.2	0.203	0.3	0.1	0.001	0.03	0.2	0.2	0.2	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/66-06/02/81	42	16.	43.619	942.	0.5	20563.156	143.399	2.	7.	32.25	58.1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	29	0.038	0.042	0.137	0.001	0.001	0.03	0.013	0.021	0.056	0.086
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/21/66-06/02/81	36	3.06	2.704	3.96	0.65	0.877	0.937	1.122	2.025	3.368	3.699
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/70-06/02/81	35	0.17	0.196	0.5	0.005	0.014	0.117	0.028	0.12	0.3	0.354
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/21/66-06/02/81	34	4300.	6761.471	23000.	430.	51979006.863	7209.647	930.	930.	9300.	23000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/21/66-06/02/81	34	3.633	3.577	4.362	2.633	0.252	0.502	2.968	2.968	3.968	4.362
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			3776.156								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	34	930.	2425.971	23000.	75.	19460726.272	4411.431	121.5	230.	2300.	6800.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/21/66-06/02/81	34	2.968	2.929	4.362	1.875	0.419	0.647	2.072	2.362	3.362	3.801
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			848.893								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/66-06/02/81	42	259.	306.833	1732.	92.	56232.825	237.135	213.9	237.75	297.	366.2

** - 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: HAFE0035

NPS Station ID: HAFE0035 LAT/LON: 39.285003/ -77.731670 Agency: 21VASWCB Date Created: 03/13/93
Location: ROUTE 685 (LOUDOUN CO) FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 1APIA004.67
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070008 Depth of Water: 0 Aquifer:
Major Basin: 02-NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: 1-POTOMAC-SHENANDOAH ECO Region:
RF1 Index: 02070008 RF1 Mile Point: 0.000 Distance from RF1: 12.80 On/Off RF1:
RF3 Index: 02070004010303.75 RF3 Mile Point: 5.94 Distance from RF3: 0.02 On/Off RF3:
Description:
VIRGINIA STATE WATER CONTROL BOARD AMBIENT MONITORING BASIN: 1A POTOMAC REGION: 3 NORTHERN
RIVER: RINEY RUN SECTION: 10 TOPO MAP #: 0005 TOPO MAP NAME: HARPERS FERRY, VA - MD - WVA

Parameter Inventory for Station: HAFE0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	06/19/75-06/19/75	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/75-06/19/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	06/19/75-06/19/75	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/75-06/19/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/19/75-06/19/75	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/19/75-06/19/75	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/75-06/19/75	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/75-06/19/75	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	06/19/75-06/19/75	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/19/75-06/19/75	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	06/19/75-06/19/75	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/19/75-06/19/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/19/75-06/19/75	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/75-06/19/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/75-06/19/75	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/19/75-06/19/75	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/75-06/19/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/75-06/19/75	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/75-06/19/75	1	400.	400.	400.	400.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/75-06/19/75	1	2.602	2.602	2.602	2.602	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			400.								

** - Less 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: HAFE0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
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			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	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: HAFE0036

NPS Station ID: HAFE0036
LAT/LON: 39.450337/ -77.732088
Agency: 31POTOMA
Date Created: / /
Location: BURNSIDE BRG. ANTIETAM BATTLEFLD
FIPS State/County: 24000 MARYLAND/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 552028 /180-4.76
RMI-Indexes: 0214001 004600
Within Park Boundary: No
RMI-Miles: 0180.00 0004.76
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: POTOMAC RIVER
Elevation: 0
Water Body Id:
Minor Basin: ANTIETAM CREEK
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 3.490
Distance from RF1: 21.00
On/Off RF1: OFF
RF3 Index: 02070008078000.00
RF3 Mile Point: 0.70
Distance from RF3: 0.49
On/Off RF3:
Description:
STATION IS LOCATED ON ANTIETAM CREEK IN WASHINGTON COUNTY, MARYLAND. SAMPLING IS FROM THE BURNSIDE BRIDGE IN THE ANTIETAM BATTLEFIELD PARK 4.2 MILES UPSTREAM FROM THE CONFLUENCE WITH THE POTOMAC.

Parameter Inventory for Station: HAFE0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/71-02/12/74	54	12.35	11.983	21.	3.	34.704	5.891	4.	6.6	18.	19.75
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/08/71-02/12/74	56	15.	26.605	160.	2.7	885.048	29.75	5.	10.	30.	62.1
00300	OXYGEN, DISSOLVED MG/L	12/04/73-12/04/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/08/71-02/12/74	54	7.9	7.865	8.2	7.3	0.037	0.193	7.6	7.775	8.	8.1
00400	CONVERTED PH (STANDARD UNITS)	07/08/71-02/12/74	54	7.9	7.818	8.2	7.3	0.04	0.199	7.6	7.775	8.	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/71-02/12/74	54	0.013	0.015	0.05	0.006	0.	0.008	0.008	0.01	0.017	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/71-02/12/74	56	190.	177.714	228.	2.	1673.444	40.908	144.4	168.25	198.	210.6
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/05/74-02/12/74	2	6250.	6250.	11000.	1500.	45125000.	6717.514	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/05/74-02/12/74	2	3.609	3.609	4.041	3.176	0.374	0.612	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			4062.019								
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/08/71-01/22/74	50	2400.	13130.8	240000.	150.	1421035583.02	37696.626	262.	1100.	4600.	43800.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/08/71-01/22/74	50	3.38	3.385	5.38	2.176	0.536	0.732	2.408	3.041	3.663	4.635
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2428.325								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-12/04/73	2	23230.	23230.	46000.	460.	1036945800.	32201.643	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/30/73-12/04/73	2	3.663	3.663	4.663	2.663	2.	1.414	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			4600.								
51505	INVALID PARAMETER	08/02/71-08/16/71	2	14300.	14300.	24000.	4600.	188180000.	13717.872	**	**	**	**

** - Less 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: HAFE0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	56	8	0.14	15	2	0.13	22	2	0.09	19	4	0.21			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	54	0	0.00	14	0	0.00	21	0	0.00	19	0	0.00			
		Other-Lo Lim.	6.5	54	0	0.00	14	0	0.00	21	0	0.00	19	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	2	1.00				2	2	1.00						
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	50	39	0.78	13	13	1.00	19	10	0.53	18	16	0.89			

& - 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: HAFE0036

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	2	2	1.00	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: HAFE0037

NPS Station ID: HAFE0037
LAT/LON: 39.450837/ -77.731948
Agency: 1113PPWQ
Date Created: / /
Location: ANTIETAM CR. BURNSIDE BR GAG.STA
FIPS State/County: 24000 MARYLAND/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POTOMAC 028 /028 /ANT-A1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 3.490
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004001120.63
RF3 Mile Point: 22.19
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/18/69-08/18/69	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/28/69-08/18/69	2	45.	45.	45.	45.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/28/69-08/18/69	2	5.05	5.05	6.1	4.	2.205	1.485	**	**	**	**
00311	BOD, DISSOLVED, 5 DAY MG/L	07/28/69-08/18/69	2	5.75	5.75	7.4	4.1	5.445	2.333	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/28/69-08/18/69	2	0.358	0.358	0.662	0.053	0.185	0.431	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/69-08/18/69	1	2.959	2.959	2.959	2.959	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/28/69-08/18/69	2	2.125	2.125	2.34	1.91	0.092	0.304	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/28/69-08/18/69	2	107550.	107550.	160900.	54200.	5692445000.	75448.294	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/28/69-08/18/69	2	4.97	4.97	5.207	4.734	0.112	0.334	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			93385.117								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/28/69-08/18/69	2	57750.	57750.	91500.	24000.	2278125000.	47729.708	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/28/69-08/18/69	2	4.671	4.671	4.961	4.38	0.169	0.411	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			46861.498								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/28/69-08/18/69	2	16.875	16.875	25.5	8.25	148.781	12.198	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/28/69-08/18/69	2	2.86	2.86	3.8	1.92	1.767	1.329	**	**	**	**

** - Less 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: HAFE0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00				1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	0.50	1	0	0.00				1	1	1.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	2	2	1.00	1	1	1.00				1	1	1.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	2	1.00	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: HAFE0038

NPS Station ID: HAFE0038 | LAT/LON: 39.450199/ -77.732670 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: ANTIETAM CREEK AT BURNSIDE BRIDGE | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_ACBB
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 310 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED ON ANTIETAM CREEK AT THE HISTORIC BURNSIDE BRIDGE JUST BELOW AN AREA WITH HIGH RECREATIONAL USE. THE MAJOR PORTION OF THE ANTIETAM FLOWS THROUGH SOILS THAT ARE DEEP WELL DRAINED AND ARE MODER- ATELY OR MODERATELY RAPIDLY PERMEABLE WITH SLOPES FROM 0 TO 10 OR 15 PERCENT. A SMALL PORTION OF THE SOILS ARE ALL ROCKY OR VERY ROCKY OR EXTREMELY ROCKY WITH SLOPES OF 8 TO 15 PERCENT ACCORDING TO THE NATURAL SOILS GROUPS MAPS FOR WASHINGTON COUNTY MD. MORE SPECIFICALLY THE MAJOR SOIL THROUGH WHICH THE CREEK CARVES ITS WAY IS HUNTINGTON SILT LOAM. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. - CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590.
DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/85-07/08/88	30	14.15	13.553	23.3	2.2	47.565	6.897	3.3	5.45	19.55	22.09
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/30/85-07/08/88	30	580.	572.	680.	405.	4011.379	63.335	481.	537.5	620.	640.
00300	OXYGEN, DISSOLVED MG/L	05/30/85-07/08/88	30	10.5	10.7	15.	6.	5.872	2.423	8.	9.	13.	14.
00400	PH (STANDARD UNITS)	05/30/85-05/27/88	28	8.	7.914	8.7	7.1	0.178	0.422	7.29	7.475	8.2	8.32
00400	CONVERTED PH (STANDARD UNITS)	05/30/85-05/27/88	28	8.	7.706	8.7	7.1	0.223	0.473	7.29	7.475	8.2	8.32
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/85-05/27/88	28	0.01	0.02	0.079	0.002	0.	0.021	0.005	0.006	0.035	0.051
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/30/85-07/08/88	30	11.	10.267	14.	3.	5.513	2.348	8.	9.75	11.25	12.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/85-07/08/88	30	0.4	0.372	0.9	0.05	0.068	0.261	0.05	0.163	0.5	0.79
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/85-07/08/88	30	5.	4.84	7.	2.	1.547	1.244	3.	4.	6.	6.63
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/30/85-07/08/88	30	0.95	1.375	8.	0.05	2.986	1.728	0.05	0.275	1.625	2.86
00940	CHLORIDE,TOTAL IN WATER MG/L	07/25/85-07/08/88	29	5.	5.379	9.	3.	1.958	1.399	4.	4.	6.	7.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/08/88	24	1.9	3.433	16.	0.8	14.126	3.758	0.9	1.25	3.05	9.65

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

EPA Water Quality Criteria Analysis for Station: HAFE0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00400	PH	Other-Hi Lim.	9.	28	0	0.00	7	0	0.00	10	0	0.00	11	0	0.00			
		Other-Lo Lim.	6.5	28	0	0.00	7	0	0.00	10	0	0.00	11	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0039

NPS Station ID: HAFE0039 LAT/LON: 39.453476/ -77.733892 Agency: 11NPSWRD Date Created: 07/22/95
Location: SHARPSBURG CREEK ENTERING THE ANTIETAM FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): ANTI_SCEA
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 315 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 12.80 On/Off RF1:
RF3 Index: 02070004010303.75 RF3 Mile Point: 5.94 Distance from RF3: 0.02 On/Off RF3:
Description:
SITE IS LOCATED ON SHARPSBURG CREEK JUST BEFORE IT ENTERS ANTIETAM CREEK. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/31/85-07/07/88	30	14.15	13.157	18.9	5.6	11.897	3.449	8.3	9.4	15.6	17.69
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/31/85-07/07/88	30	607.5	608.	710.	520.	2518.276	50.182	541.	567.5	640.	680.
00300	OXYGEN, DISSOLVED MG/L	05/31/85-07/07/88	30	11.	10.233	13.	0.	5.633	2.373	8.	9.	12.	12.
00400	PH (STANDARD UNITS)	05/31/85-02/16/88	26	8.	7.923	8.8	6.9	0.149	0.386	7.47	7.6	8.2	8.33
00400	CONVERTED PH (STANDARD UNITS)	05/31/85-02/16/88	26	8.	7.735	8.8	6.9	0.186	0.431	7.47	7.6	8.2	8.33
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/31/85-02/16/88	26	0.01	0.018	0.126	0.002	0.001	0.024	0.005	0.006	0.025	0.034
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/85-07/07/88	30	13.	13.067	15.	11.	0.961	0.98	12.	12.	14.	14.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/31/85-07/07/88	30	0.3	0.31	1.4	0.05	0.077	0.277	0.05	0.1	0.425	0.6
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/31/85-07/07/88	30	5.25	5.53	9.9	2.5	2.434	1.56	3.55	4.	7.	7.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/31/85-07/07/88	30	0.2	0.71	3.8	0.05	1.063	1.031	0.05	0.05	0.85	2.92
00940	CHLORIDE,TOTAL IN WATER MG/L	07/23/85-07/07/88	29	5.	4.793	7.	4.	0.741	0.861	4.	4.	5.	6.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/07/88	24	1.6	2.421	9.2	0.6	4.387	2.095	0.9	0.95	3.3	5.9

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

EPA Water Quality Criteria Analysis for Station: HAFE0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	1	0.03	7	0	0.00	10	0	0.00	13	1	0.08			
00400	PH	Other-Hi Lim.	9.	26	0	0.00	7	0	0.00	10	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	26	0	0.00	7	0	0.00	10	0	0.00	9	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0040

NPS Station ID: HAFE0040 | LAT/LON: 39.440059/ -77.735781 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: ANTIETAM CREEK AT SNAVELY FORD | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_ACSF
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 305 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED ON ANTIETAM CREEK WHERE THE CREEK LEAVES PARK PROPERTY. THE HUNTINGTON SILT LOAM FALLS INTO CAPABILITY UNIT I-6 WHICH CONSISTS OF NEARLY LEVEL WELL-DRAINED FRIABLE SOILS ON FLOOD PLAINS AND ON LOW STREAM TERRACES. THE WOODLAND SUITABILITY GROUP FOR THIS SOIL IS FL AN EXCELLENT SOIL FOR WOODLAND. WITH THE EXCEPTION OF THE PORTION OF THE ANTIETAM THAT FLOWS THROUGH THE CITY OF HAGERSTOWN THE CREEK IS BORDERED PREDOMINANTLY BY AGRICULTURAL CROP AND PASTURE LAND AND BY FORESTED LAND MADE UP OF THE OAK-HICKORY HARDWOOD GROUP. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. - CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/30/85-07/08/88	30	14.15	13.847	25.6	2.2	52.191	7.224	2.85	5.3	19.55	22.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/30/85-07/08/88	30	580.	571.333	720.	420.	4956.782	70.404	480.	520.	620.	658.
00300	OXYGEN, DISSOLVED MG/L	05/30/85-07/08/88	30	10.	10.4	14.	4.	5.421	2.328	8.	9.	12.	14.
00400	PH (STANDARD UNITS)	05/30/85-05/27/88	27	8.	7.93	8.9	7.1	0.153	0.391	7.28	7.7	8.2	8.32
00400	CONVERTED PH (STANDARD UNITS)	05/30/85-05/27/88	27	8.	7.752	8.9	7.1	0.186	0.431	7.28	7.7	8.2	8.32
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/30/85-05/27/88	27	0.01	0.018	0.079	0.001	0.	0.019	0.005	0.006	0.02	0.053
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/30/85-07/08/88	30	11.	11.2	14.	9.	1.821	1.349	9.	10.75	12.	12.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/85-07/08/88	30	0.35	0.328	0.7	0.05	0.036	0.189	0.05	0.175	0.5	0.59
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/30/85-07/08/88	30	5.	4.973	9.9	2.	2.472	1.572	3.55	4.	5.5	6.27
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/30/85-07/08/88	30	0.9	1.402	9.	0.05	4.54	2.131	0.05	0.163	1.4	4.41
00940	CHLORIDE,TOTAL IN WATER MG/L	07/26/85-07/08/88	29	5.	5.517	9.	3.	1.901	1.379	4.	5.	6.	8.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/08/88	24	1.8	3.542	26.	0.7	28.485	5.337	0.9	1.325	2.85	9.

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

EPA Water Quality Criteria Analysis for Station: HAFE0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	1	0.03	7	0	0.00	10	0	0.00	13	1	0.08			
00400	PH	Other-Hi Lim.	9.	27	0	0.00	7	0	0.00	10	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	27	0	0.00	7	0	0.00	10	0	0.00	10	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0041

NPS Station ID: HAFE0041 | LAT/LON: 39.475503/ -77.738060 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: MUMMA SPRING LEAVING PARK | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_MSLP
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 425 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED AT THE POINT WHERE THE SPRING LEAVES ANTIETAM PARK. THE MORE SPECIFIC SOILS TYPES ARE THE HAGERSTOWN SILT LOAM 0 TO 8 PERCENT SLOPES MODERATELY ERODED. THIS UNIT FALLS INTO CAPABILITY IIE-1 DEEP WELL DRAINED GENTLY SLOPING SOILS THAT HAVE A FRIABLE SURFACE LAYER DEVELOPED IN OR STRONGLY INFLUENCED BY MATERIAL THAT WEATHERED FROM LIMESTONE. A SECOND MAJOR SOIL TYPE IS THE HAGERSTOWN VERY ROCKY SILTY CLAY LOAM 3 TO 15 PERCENT SLOPES MODERATELY ERODED. THIS TYPE IS ASSIGNED CAPABILITY UNIT VIS-1 SLOPING TO STEEP WELL DRAINED VERY ROCKY SOILS THAT ARE LIMITED BY ROCKINESS AND HAZARD OF EROSION. ROCKS ARE OUTCROPS OF LIMESTONE. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. ADDRESS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PH (970) 225-3581 FX (970) 225-9965.

Parameter Inventory for Station: HAFE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/05/85-07/08/88	30	15.6	15.06	27.8	3.9	32.1	5.666	8.3	10.675	16.975	23.79
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/85-07/08/88	30	555.	547.667	620.	480.	1494.368	38.657	491.	507.5	580.	590.
00300	OXYGEN, DISSOLVED MG/L	06/05/85-07/08/88	30	10.	9.767	15.	5.	5.909	2.431	6.1	8.	11.	13.9
00400	PH (STANDARD UNITS)	06/05/85-05/26/88	27	8.	7.93	8.9	6.9	0.214	0.463	7.4	7.6	8.3	8.46
00400	CONVERTED PH (STANDARD UNITS)	06/05/85-05/26/88	27	8.	7.7	8.9	6.9	0.269	0.519	7.4	7.6	8.3	8.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/85-05/26/88	27	0.01	0.02	0.126	0.001	0.001	0.025	0.004	0.005	0.025	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/85-07/08/88	30	11.5	11.467	14.	9.	1.43	1.196	10.	11.	12.	13.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/05/85-07/08/88	30	0.45	0.487	2.1	0.05	0.223	0.473	0.05	0.2	0.6	1.2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/85-07/08/88	30	6.	5.927	12.	2.	5.533	2.352	3.	4.	7.	9.81
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/05/85-07/08/88	30	0.25	0.98	8.	0.05	3.	1.732	0.05	0.05	1.025	2.97
00940	CHLORIDE,TOTAL IN WATER MG/L	07/22/85-07/08/88	29	4.	4.517	8.	3.	1.83	1.353	3.	4.	5.	7.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/28/85-07/08/88	23	5.1	8.209	52.	0.7	138.452	11.767	1.02	2.1	6.5	26.6

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: HAFE0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00400	PH	Other-Hi Lim.	9.	27	0	0.00	7	0	0.00	10	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	27	0	0.00	7	0	0.00	10	0	0.00	10	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	30	2	0.07	7	0	0.00	10	0	0.00	13	2	0.15			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	23	1	0.04	4	0	0.00	10	0	0.00	9	1	0.11			

& - 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: HAFE0042

NPS Station ID: HAFE0042 | LAT/LON: 39.455142/ -77.739031 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: SHARPSBURG CREEK SHERRICK FARM | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_SCSF
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 350 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED ON SHARPSBURG CREEK JUST DOWNSTREAM OF RODMAN AVE. ON THE WOODLAND/PASTURE BORDER. APPROXIMATELY 1/4 OF SHARPSBURG CREEK IS BORDERED BY THE TOWN OF SHARPSBURG ANOTHER 1/4 IS BORDERED BY AGRICULTURAL PASTURE LAND AND APPROXIMATELY 1/2 OF THE STREAM FLOWS THROUGH WOODLANDS OF THE OAK-HICKORY-MAPLE HARDWOOD GROUP. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. - CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/07/85-07/17/88	30	13.3	13.357	18.3	8.3	8.34	2.888	9.4	10.6	16.1	17.15
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/07/85-07/17/88	30	620.	624.	720.	520.	2052.414	45.304	580.	597.5	650.	680.
00300	OXYGEN, DISSOLVED MG/L	06/07/85-07/17/88	30	11.	10.567	12.	6.	2.875	1.695	7.1	10.	12.	12.
00400	PH (STANDARD UNITS)	06/07/85-02/16/88	26	8.1	7.992	8.9	6.8	0.174	0.417	7.47	7.7	8.225	8.4
00400	CONVERTED PH (STANDARD UNITS)	06/07/85-02/16/88	26	8.1	7.75	8.9	6.8	0.235	0.484	7.47	7.7	8.225	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/07/85-02/16/88	26	0.008	0.018	0.158	0.001	0.001	0.03	0.004	0.006	0.02	0.034
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/85-07/17/88	30	13.	13.2	15.	11.	1.131	1.064	12.	12.75	14.	14.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/85-07/17/88	30	0.3	0.303	1.1	0.05	0.058	0.24	0.05	0.1	0.4	0.6
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/85-07/17/88	30	6.	5.75	9.	2.5	2.065	1.437	3.1	5.	7.	7.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/07/85-07/17/88	30	0.25	0.908	5.	0.05	2.268	1.506	0.05	0.05	0.825	4.35
00940	CHLORIDE,TOTAL IN WATER MG/L	07/23/85-07/17/88	29	5.	5.	8.	3.	1.143	1.069	4.	4.	6.	6.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/17/88	24	2.15	2.796	9.2	0.5	4.822	2.196	0.95	1.1	3.6	6.9

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

EPA Water Quality Criteria Analysis for Station: HAFE0042

			Total	Exceed	Prop.	8/01-10/31			11/01-3/20			3/21-7/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00400	PH	Other-Hi Lim.	9.	26	0	0.00	7	0	0.00	10	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	26	0	0.00	7	0	0.00	10	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

EPA Water Quality Criteria Analysis for Station: HAFE0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	30	0	0.00	7	0	0.00	10	0	0.00	13	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0043

NPS Station ID: HAFE0043 LAT/LON: 39.332698/ -77.739198 Agency: 21MDEXP Date Created: 10/11/80
Location: S. OF PLEASANTVILLE ALONG HARPERS FERRY RD., 1 FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): POT1725
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004001 RF1 Mile Point: 0.740 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 02070004003100.00 RF3 Mile Point: 0.01 Distance from RF3: 0.04 On/Off RF3:
Description:
02-14-05-01 POTOMAC RIVER WASHINGTON CO. AREA DRAINAGE (SHENENDOAH RIVER TO LITTLE TONOLOWAY CREEK)
POTOMAC RIVER RIVER MILE IS 172.50 RECEIVING TRIBUTARY IS CHESAPEAKE BAY
S. OF PLEASANTVILLE ALONG HARPERS FERRY RD., 1 MILE ABOVE SHENANDOAH

Parameter Inventory for Station: HAFE0043

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: HAFE0044

NPS Station ID: HAFE0044
LAT/LON: 39.455281/ -77.740282
Agency: 112WRD
Date Created: 02/28/78
Location: WA Di 72
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392719077442501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 8.50
On/Off RF1:
RF3 Index: 02070004110700.00
RF3 Mile Point: 0.98
Distance from RF3: 0.71
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/59-05/20/59	1	627.	627.	627.	627.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/20/59-05/20/59	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/20/59-05/20/59	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/59-05/20/59	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/20/59-05/20/59	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	1	273.	273.	273.	273.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/20/59-05/20/59	1	333.	333.	333.	333.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/59-05/20/59	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	1	284.	284.	284.	284.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/59-05/20/59	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/59-05/20/59	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/20/59-05/20/59	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/20/59-05/20/59	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/59-05/20/59	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/59-05/20/59	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/20/59-05/20/59	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0044

Parameter				Total	Exceed	Prop.	8/01-10/31			11/01-3/20			3/21-7/31			n/a		
		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			
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			
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: HAFE0045

NPS Station ID: HAFE0045 | LAT/LON: 39.477142/ -77.740866 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: MUMMA SPRING AT SOURCE | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_MSAS
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 470 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED AT MUMMA SPRING SOURCE. THIS STREAM IS FED BY THE NATURAL SPRING ON THE HISTORIC MUMMA FARM FLOWING INTO A HOLDING POND OFF OF PARK PROPERTY. THE STREAM FLOWS THRU AN AREA THAT WAS PASTURED IT HAS NOW BEEN ALLOWED TO GROW UP AND RETURN TO AN OLD FIELD SITUATION THIS STREAM FLOWS THROUGH THE HAGERSTOWN-DUFFIELD-FRANKSTOWN GENERAL SOIL ASSOCIATION SOILS OF LIMESTONE VALLEYS. THE NATURAL SOILS GROUPS ARE INITIALLY THE DEEP WELL DRAINED SOILS THAT ARE MODERATELY OR MODERATELY RAPIDLY PERMEABLE WITH SLOPES OF 0 TO 10 PERCENT. THIS RAPIDLY CHANGES TO THE ALL ROCKY SOILS WITH SLOPES OF 15+ PERCENT. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFORMATION CALL ED WENSCHOHOF JR. - CHIEF OF NATURAL RESOURCES MANAGEMENT AND RESOURCES PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/30/85-07/08/88	27	11.1	11.785	15.6	10.6	1.249	1.118	11.1	11.1	12.2	13.12
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/30/85-07/08/88	27	570.	565.185	750.	350.	4479.772	66.931	500.	540.	600.	624.
00300	OXYGEN, DISSOLVED MG/L	09/30/85-07/08/88	27	9.	8.778	11.	7.	1.333	1.155	7.	8.	10.	10.
00400	PH (STANDARD UNITS)	09/30/85-02/16/88	23	7.3	7.209	8.1	6.4	0.168	0.41	6.58	7.	7.5	7.7
00400	CONVERTED PH (STANDARD UNITS)	09/30/85-02/16/88	23	7.3	7.023	8.1	6.4	0.204	0.452	6.58	7.	7.5	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/30/85-02/16/88	23	0.05	0.095	0.398	0.008	0.01	0.099	0.02	0.032	0.1	0.27
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/30/85-07/08/88	27	11.	11.296	14.	8.	1.293	1.137	10.	11.	12.	13.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/30/85-07/08/88	27	0.3	0.269	0.9	0.05	0.04	0.2	0.05	0.05	0.3	0.52
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/30/85-07/08/88	27	6.	6.478	16.	1.	7.117	2.668	4.2	5.	7.5	9.92
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/30/85-07/08/88	27 ##	0.05	0.887	6.	0.05	2.402	1.55	0.05	0.05	1.1	3.3
00940	CHLORIDE,TOTAL IN WATER MG/L	09/30/85-07/08/88	27	4.	4.296	7.	3.	1.37	1.171	3.	3.	5.	6.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/30/85-07/08/88	24	0.7	0.813	2.7	0.2	0.334	0.578	0.25	0.4	1.075	1.6

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: HAFE0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	27	0	0.00	6	0	0.00	10	0	0.00	11	0	0.00			
00400	PH	Other-Hi Lim.	9.	23	0	0.00	6	0	0.00	10	0	0.00	7	0	0.00			
		Other-Lo Lim.	6.5	23	2	0.09	6	0	0.00	10	2	0.20	7	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	27	2	0.07	6	0	0.00	10	0	0.00	11	2	0.18			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	27	0	0.00	6	0	0.00	10	0	0.00	11	0	0.00			
		Drinking Water	250.	27	0	0.00	6	0	0.00	10	0	0.00	11	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0046

NPS Station ID: HAFE0046
LAT/LON: 39.476670/ -77.740837
Agency: 112WRD
Date Created: 03/02/91
Location: WA Di 103
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392836077442701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 12.10
On/Off RF1:
RF3 Index: 02070004003200.77
RF3 Mile Point: 1.33
Distance from RF3: 0.13
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/04/90-06/16/94	7	12.3	12.4	13.4	11.8	0.24	0.49	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/04/90-06/16/94	7	18.5	18.929	29.	9.5	52.119	7.219	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/04/90-06/16/94	7	2.	1.857	5.	0.5	2.393	1.547	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/04/90-06/16/94	7	512.	519.286	563.	467.	1506.905	38.819	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/12/90-06/16/94	6	6.7	6.833	8.7	5.7	1.243	1.115	**	**	**	**
00400	PH (STANDARD UNITS)	10/04/90-06/16/94	7	7.2	7.233	7.34	7.12	0.006	0.078	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/04/90-06/16/94	7	7.2	7.227	7.34	7.12	0.006	0.078	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/04/90-06/16/94	7	0.063	0.059	0.076	0.046	0.	0.011	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/04/90-06/16/94	7	7.4	7.429	7.6	7.2	0.016	0.125	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/04/90-06/16/94	7	7.4	7.412	7.6	7.2	0.016	0.127	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/04/90-06/16/94	7	0.04	0.039	0.063	0.025	0.	0.012	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/92-07/08/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/04/90-06/16/94	7	201.5	199.929	219.	172.	259.702	16.115	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/08/92-07/08/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00449	BICARBONATE,INCREMENTAL TITRATION,(HCO3) LAB MG/L	04/21/93-06/16/94	2	220.	220.	230.	210.	200.	14.142	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/04/90-07/08/92	5	250.	253.24	267.1	240.	134.493	11.597	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/21/93-06/16/94	2	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/04/90-07/08/92	5	0.02	0.015	0.02	0.005	0.	0.007	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/21/93-06/16/94	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/04/90-07/08/92	5 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/90-03/19/91	2	5.85	5.85	9.6	2.1	28.125	5.303	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/21/93-06/16/94	2	7.35	7.35	7.4	7.3	0.005	0.071	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/04/90-04/21/93	6 ##	0.005	0.009	0.03	0.005	0.	0.01	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/21/93-06/16/94	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-06/16/94	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/04/90-06/16/94	6	0.7	0.9	1.5	0.6	0.16	0.4	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/04/90-06/16/94	7	69.	67.857	77.	58.	53.81	7.335	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/04/90-06/16/94	7	24.	23.	27.	19.	7.333	2.708	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/04/90-06/16/94	7	5.9	6.143	11.	3.5	6.726	2.593	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/04/90-06/16/94	7	2.	1.971	2.3	1.6	0.052	0.229	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/04/90-06/16/94	7	12.	11.429	17.	6.	14.619	3.823	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/04/90-06/16/94	7	27.	27.857	32.	24.	8.476	2.911	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/04/90-06/16/94	7	0.4	0.386	0.5	0.3	0.005	0.069	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/04/90-06/16/94	7	11.	10.857	11.	10.	0.143	0.378	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	06/17/91-06/17/91	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	06/17/91-06/17/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	10/04/90-10/04/90	1	10.	10.	10.	10.	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: HAFE0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/17/91-06/17/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/17/91-06/17/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/04/90-06/16/94	7	40.	40.714	90.	5.	903.571	30.059	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/04/90-06/16/94	7	3.	3.071	5.	1.5	2.619	1.618	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/90-06/16/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/90-06/16/94	7 ##	0.5	0.571	1.	0.5	0.036	0.189	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/17/91-06/17/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/17/91-06/17/91	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/17/91-06/17/91	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/90-10/04/90	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	06/17/91-06/17/91	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/17/91-06/17/91	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/17/91-06/17/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	06/16/94-06/16/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	1 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
30217	DIBROMOMETHANE, WATER, WHOLE, RECOVERABLE UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
30234	BROMACIL, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30235	BUTACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
30236	BUTYLATE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
30245	CARBOXIN, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30254	CYCLOATE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
30255	DIPHENAMID, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
30264	HEXAZINONE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
30311	TERBACIL, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30324	VERNOLATE, WATER, WHOLE, RECOVERABLE, UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	06/17/91-07/08/92	2	5.95	5.95	7.4	4.5	4.205	2.051	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34210	ACROLEIN TOTWUG/L	07/08/92-07/08/92	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34215	ACRYLONITRILE TOTWUG/L	07/08/92-07/08/92	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34253	A-BHC-ALPHA DISSUG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34561	1,3-DICHLOROPROPENE TOTWUG/L	06/17/91-06/17/91	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34653	P,P'-DDE DISSUG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34668	DICHLORODIFUOROMETHANE TOTWUG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39054	SIMETRYNE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39055	SIMAZINE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39056	PROMETONE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39057	PROMETRYNE IN WHOLE WATER (UG/L)	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	06/17/91-07/08/92	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	07/08/92-06/16/94	2 ##	0.005	0.005	0.006	0.005	0.	0.	**	**	**	**
39352	CHLORDANE(TECH MIX & METABS),DISSOLVED,UG/L	07/08/92-07/08/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	2 ##	0.005	0.005	0.005	0.004	0.	0.001	**	**	**	**
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	06/16/94-06/16/94	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT SAMP (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39517	PCBS IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-07/08/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	2 ##	0.006	0.006	0.007	0.005	0.	0.001	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	2 ##	0.008	0.008	0.011	0.005	0.	0.004	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	07/08/92-06/16/94	2 ##	0.005	0.005	0.005	0.004	0.	0.001	**	**	**	**
39602	METHYL PARATHION IN FILT. FRAC. WATER SAMP.(UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39756	MIREX, DISSOLVED (UG/L)	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	06/17/91-06/17/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/04/90-06/16/94	7	292.	297.143	334.	254.	829.143	28.795	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/04/90-07/08/92	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75980	ATRAZINE,DE-ISOPROPYL-, WATER, TOTAL UG/L	06/17/91-06/17/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
75981	ATRAZINE,DE-ETHYL-, WATER, TOTAL UG/L	06/17/91-06/17/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	07/08/92-07/08/92	1	28.	28.	28.	28.	0.	0.	**	**	**	**
77093	CIS-1,2-DICHLOROETHYLENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77128	STYRENE WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77168	1,1-DICHLOROPROPENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77170	2,2-DICHLOROPROPANE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77173	1,3-DICHLOROPROPANE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77222	1,2,4-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77223	ISOPROPYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77224	N-PROPYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77226	1,3,5-TRIMETHYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77275	1-METHYL-2-CHLOROBENZENE (O-CHLOR*WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77277	1-METHYL-4-CHLOROBENZENE (P-CHLOR*WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77342	N-BUTYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
77350	SEC-BUTYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77353	TERT-BUTYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77356	1-METHYL-4-ISOPROPYLBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77443	1,2,3-TRICHLOROPROPANE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77562	1,1,1,2-TETRACHLOROETHANE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77613	1,2,3-TRICHLOROBENZENE WHOLE WATER,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77651	1,2-DIBROMOETHANE WHOLE WATER,UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
77825	ALACHLOR WHOLE WATER,UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	06/17/91-07/08/92	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
81555	BROMOBENZENE WHL WATER SMPL UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	06/17/91-06/17/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	07/08/92-07/08/92	1	490.	490.	490.	490.	0.	0.	**	**	**	**
82342	TRITHION, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82344	METHYLTRITHION, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82346	ETHION, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82348	PERTHANE, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82350	METHOXYCHLOR, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82354	ENDOSULFAN, DISSOLVED IN WATER UG/L	07/08/92-07/08/92	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82360	NAPTHALENES,POLYCHLORINATED DISSOLVED IN WATR UG/L	07/08/92-07/08/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/17/91-06/17/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/17/91-06/17/91	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82625	DIBROMOCHLOROPROPANE, WATER,TOTAL RECOVERABLE,UG/L	07/08/92-07/08/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	06/16/94-06/16/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	06/16/94-06/16/94	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	06/16/94-06/16/94	1 ##	0.01	0.01	0.01	0.01	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: HAFE0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00				2	0	0.00	4	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00							2	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	250.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	7	0	0.00	1	0	0.00	2	0	0.00	4	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.	1	0	0.00							1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
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			
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	1	0	0.00							1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	2	0	0.00							2	0	0.00			
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	2	0	0.00							2	0	0.00			
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	2	0	0.00							2	0	0.00			
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	2	0	0.00							2	0	0.00			
		Drinking Water	100.	2	0	0.00							2	0	0.00			
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	2	0	0.00							2	0	0.00			
		Drinking Water	1000.	2	0	0.00							2	0	0.00			
34210	ACROLEIN, TOTAL	Fresh Acute	68.	1	0	0.00							1	0	0.00			
34215	ACRYLONITRILE, TOTAL	Fresh Acute	7550.	1	0	0.00							1	0	0.00			
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	2	0	0.00							2	0	0.00			
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	2	0	0.00							2	0	0.00			
		Drinking Water	700.	2	0	0.00							2	0	0.00			
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	2	0	0.00							2	0	0.00			
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	2	0	0.00							2	0	0.00			
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	2	0	0.00							2	0	0.00			
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	2	0	0.00							2	0	0.00			
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00							2	0	0.00			
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	2	0	0.00							2	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	2	0	0.00							2	0	0.00			
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00							1	0	0.00			
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00							2	0	0.00			
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	2	0	0.00							2	0	0.00			
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00							1	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	1	0	0.00							1	0	0.00			
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	1	0	0.00							1	0	0.00			
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	2	0	0.00							2	0	0.00			
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00							1	0	0.00			
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	2	0	0.00							2	0	0.00			
		Drinking Water	0.2	2	0	0.00							2	0	0.00			
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	2	0	0.00							2	0	0.00			
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.4	1	0	0.00							1	0	0.00			
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	2	0	0.00							2	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	1	0	0.00							1	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	1	0	0.00							1	0	0.00			
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPL	Fresh Acute	90.	1	0	0.00							1	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			
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	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			
77093	CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	Drinking Water	70.	1	0	0.00							1	0	0.00			
77128	STYRENE, WHOLE WATER	Drinking Water	100.	2	0	0.00							2	0	0.00			
77651	1,2-DIBROMOETHANE, WHOLE WATER	Drinking Water	0.05	0 &	0	0.00												
82350	METHOXYCHLOR, DISSOLVED IN WATER	Drinking Water	40.	1	0	0.00							1	0	0.00			
82354	ENDOSULFAN, DISSOLVED IN WATER	Fresh Acute	0.22	1	0	0.00							1	0	0.00			
82625	DIBROMOCHLOROPROPANE, WATER, TOTAL RECOV	Drinking Water	0.2	0 &	0	0.00												

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

Station Inventory for Station: HAFE0047

NPS Station ID: HAFE0047
LAT/LON: 39.455281/ -77.741115
Agency: 112WRD
Date Created: 10/27/90
Location: WA Di 72
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392719077442801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 02070004000405.61
RF3 Mile Point: 5.61
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/59-05/20/59	1	627.	627.	627.	627.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/20/59-05/20/59	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/20/59-05/20/59	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/59-05/20/59	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/20/59-05/20/59	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	1	273.	273.	273.	273.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/20/59-05/20/59	1	333.	333.	333.	333.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/59-05/20/59	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	1	284.	284.	284.	284.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/59-05/20/59	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/59-05/20/59	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/20/59-05/20/59	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/20/59-05/20/59	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/59-05/20/59	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/59-05/20/59	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/20/59-05/20/59	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0047

Parameter				Total	Exceed	Prop.	8/01-10/31			11/01-3/20			3/21-7/31			n/a		
		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			
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			
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: HAFE0048

NPS Station ID: HAFE0048
LAT/LON: 39.320003/ -77.741948
Agency: 1112A9WQ
Date Created: / /
Location: SHENDOAH RIV RT 340 HARPER FERRY
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): UP-POT-102 /SHEN 102 /102 /SH RIV 102
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 999
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 1.160
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070004003123.79
RF3 Mile Point: 24.90
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/72-04/17/73	4	16.5	14.	20.	3.	60.667	7.789	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/24/72-04/17/73	4	9.75	10.325	13.	8.8	3.756	1.938	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/24/72-05/25/72	2	1.9	1.9	2.2	1.6	0.18	0.424	**	**	**	**
00400	PH (STANDARD UNITS)	05/24/72-05/25/72	2	7.65	7.65	8.2	7.1	0.605	0.778	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/24/72-05/25/72	2	7.368	7.368	8.2	7.1	0.764	0.874	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/72-05/25/72	2	0.043	0.043	0.079	0.006	0.003	0.052	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/72-05/25/72	2	146.5	146.5	239.	54.	17112.5	130.815	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/24/72-05/25/72	2	11.	11.	13.	9.	8.	2.828	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/72-04/17/73	5	0.085	0.091	0.155	0.065	0.001	0.037	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/72-04/17/73	5	0.387	0.573	1.099	0.32	0.117	0.342	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/72-04/17/73	5	1.16	1.198	1.8	0.81	0.152	0.39	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/24/72-04/17/73	5	0.12	0.232	0.71	0.04	0.074	0.272	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/24/72-02/13/73	4	3.95	4.15	5.6	3.1	1.377	1.173	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	05/24/72-02/13/73	4	22.05	24.075	38.7	13.5	117.923	10.859	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/72-05/25/72	2	7.8	7.8	15.	0.6	103.68	10.182	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/72-05/25/72	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/24/72-05/25/72	2 ##	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/24/72-05/25/72	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/24/72-05/25/72	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/24/72-05/25/72	2	0.045	0.045	0.07	0.02	0.001	0.035	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/24/72-05/25/72	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/24/72-04/17/73	5	0.27	0.288	0.44	0.13	0.013	0.114	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/24/72-05/25/72	2	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0048

				Total	Exceed	Prop.	----------8/01-10/31----------			----------11/01-3/20----------			----------3/21-7/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00							2	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00							2	0	0.00			
		Drinking Water	5.	2	0	0.00							2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00							2	0	0.00			
		Drinking Water	1300.	2	0	0.00							2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00							2	0	0.00			
		Drinking Water	15.	2	0	0.00							2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00							2	0	0.00			
		Drinking Water	5000.	2	0	0.00							2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			

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

Station Inventory for Station: HAFE0049

NPS Station ID: HAFE0049
LAT/LON: 39.320281/ -77.742226
Agency: 1113SHWQ
Date Created: / /
Location: SHEN.R. RTE 340 BR HARPERS FERRY
FIPS State/County: 51000 VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POTOMAC 006 /006 /SHEN M-4
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 1.160
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000109.75
RF3 Mile Point: 9.75
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/67-06/16/67	2	24.75	24.75	25.5	24.	1.125	1.061	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/14/67-06/16/67	2	6.6	6.6	6.8	6.4	0.08	0.283	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	06/14/67-06/16/67	2	6.3	6.3	8.3	4.3	8.	2.828	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	06/14/67-06/14/67	1	490.	490.	490.	490.	0.	0.	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	06/14/67-06/14/67	1	2.69	2.69	2.69	2.69	0.	0.	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			490.								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/14/67-06/14/67	1	50.	50.	50.	50.	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/14/67-06/14/67	1	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			50.								

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

EPA Water Quality Criteria Analysis for Station: HAFE0049

				Total	Exceed	Prop.	----------8/01-10/31----------			----------11/01-3/20----------			----------3/21-7/31----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: HAFE0050

NPS Station ID: HAFE0050 | LAT/LON: 39.322781/ -77.742505 | Agency: 21WVWQAS | Date Created: 06/08/96
Location: Shenandoah River at Harpers Ferry, W. Va. | FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WA96-S01 /S-001
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 02070007 | Depth of Water: 4 | Aquifer:
Major Basin: Mid Atlantic | Elevation: 280 | Water Body Id: WVS
Minor Basin: Potomac River / Shenandoah River | ECO Region: 66G
RF1 Index: 02070007001 | RF1 Mile Point: 0.930 | Distance from RF1: 12.80 | On/Off RF1: ON
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
Mid - Stream Sample of Shenandoah River at U.S. Route 340 Highway at the Town of Harpers Ferry, Jefferson County, West Virginia.
> Harpers Ferry, WV-MD-VA Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 15 00 Long. 77 37 30 **>

Parameter Inventory for Station: HAFE0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/11/96-06/17/96	2	14.3	14.3	24.4	4.2	204.02	14.284	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	03/11/96-06/17/96	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	06/17/96-06/17/96	1	3.79	3.79	3.79	3.79	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/11/96-06/17/96	2	269.	269.	295.	243.	1352.	36.77	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/11/96-06/17/96	2	10.5	10.5	13.1	7.9	13.52	3.677	**	**	**	**
00400	PH (STANDARD UNITS)	03/11/96-06/17/96	2	8.2	8.2	8.6	7.8	0.32	0.566	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/11/96-06/17/96	2	8.037	8.037	8.6	7.8	0.373	0.611	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/11/96-06/17/96	2	0.009	0.009	0.016	0.003	0.	0.009	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/96-06/17/96	2	104.	104.	120.	88.	512.	22.627	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/11/96-06/17/96	2 ##	8.75	8.75	15.	2.5	78.125	8.839	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/11/96-06/17/96	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/17/96-06/17/96	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/11/96-06/17/96	2 ##	3.825	3.825	7.4	0.25	25.561	5.056	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/11/96-03/11/96	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/11/96-06/17/96	2 ##	0.05	0.05	0.09	0.01	0.003	0.057	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/17/96-06/17/96	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/11/96-06/17/96	2	13.	13.	15.	11.	8.	2.828	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/17/96-06/17/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/17/96-06/17/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/17/96-06/17/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/11/96-06/17/96	2	150.	150.	150.	150.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/17/96-06/17/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/11/96-06/17/96	2 ##	18.5	18.5	27.	10.	144.5	12.021	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/17/96-06/17/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/17/96-06/17/96	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/11/96-06/17/96	2	180.	180.	210.	150.	1800.	42.426	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/11/96-06/17/96	2 ##	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/11/96-06/17/96	2 ##	0.423	0.423	0.845	0.	0.357	0.598	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.646								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	03/11/96-06/17/96	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/17/96-06/17/96	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: HAFE0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00				1	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00				1	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: HAFE0051

NPS Station ID: HAFE0051
LAT/LON: 39.322531/ -77.742505
Agency: 31POTOMA
Date Created: / /
Location: RT. 340 BRG. NEAR HARPER'S FERRY
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550471
RMI-Indexes: 0214001 004600
Within Park Boundary: Yes
RMI-Miles: 0171.00 0000.60
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: POTOMAC RIVER
Elevation: 0
Water Body Id:
Minor Basin: SHENANDOAH RIVER
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 1.070
Distance from RF1: 15.30
On/Off RF1: ON
RF3 Index: 02070004036800.00
RF3 Mile Point: 1.52
Distance from RF3: 0.02
On/Off RF3:
Description:
STATION IS LOCATED ON THE SHENANDOAH RIVER IN JEFFERSON COUNTY WEST VA. SAMPLING IS FROM THE RT. 340 BRIDGE NEAR HARPER'S FERRY 0.6 MILES ABOVE THE CONFLUENCE WITH THE POTOMAC.

Parameter Inventory for Station: HAFE0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/71-12/11/72	27	11.	12.815	25.	2.	65.695	8.105	2.8	5.	20.	24.2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/19/71-12/11/72	28	14.5	26.929	210.	3.	1578.513	39.731	5.	10.	20.	61.5
00400	PH (STANDARD UNITS)	07/19/71-12/11/72	28	7.6	7.786	8.6	7.2	0.181	0.425	7.3	7.45	8.15	8.51
00400	CONVERTED PH (STANDARD UNITS)	07/19/71-12/11/72	28	7.6	7.631	8.6	7.2	0.205	0.453	7.3	7.45	8.15	8.51
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/71-12/11/72	28	0.025	0.023	0.063	0.003	0.	0.017	0.003	0.007	0.036	0.05
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/71-12/11/72	28	79.	84.321	126.	51.	440.597	20.99	57.6	68.25	104.	115.2
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	07/19/71-12/11/72	28	1100.	4057.607	24000.	23.	31769263.284	5636.423	231.	460.	6775.	11000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	07/19/71-12/11/72	28	3.041	3.132	4.38	1.362	0.538	0.734	2.36	2.663	3.822	4.041
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1354.996								
51505	INVALID PARAMETER	08/02/71-08/16/71	2	1430.	1430.	2400.	460.	1881800.	1371.787	**	**	**	**

** - Less 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: HAFE0051

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	28	4	0.14	8	1	0.13	11	2	0.18	9	1	0.11			
00400	PH	Other-Hi Lim.	9.	28	0	0.00	8	0	0.00	11	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	28	0	0.00	8	0	0.00	11	0	0.00	9	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	28	16	0.57	8	5	0.63	11	6	0.55	9	5	0.56			

& - 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: HAFE0052

NPS Station ID: HAFE0052
LAT/LON: 39.322781/ -77.742505
Agency: 21WV7IWQ
Date Created: 05/26/79
Location: Shenandoah River at Harpers Ferry, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): 550471 /S-001 /WVEPAN0471
RMI-Indexes: 0214001 004230
Within Park Boundary: Yes
RMI-Miles: 0169.70 0000.80
HUC: 02070007
Depth of Water: 4
Aquifer:
Major Basin: Mid Atlantic
Elevation: 280
Water Body Id: WVS
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007001
RF1 Mile Point: 0.930
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070004003123.79
RF3 Mile Point: 24.93
Distance from RF3: 0.02
On/Off RF3:
Description:
Shenandoah River at U.S. Route 340 Highway Bridge at the Town of Harpers Ferry, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by Division of Water Resources, W. Va. Dept. of Natural Resources,
Charleston, West Virginia (Sampling done monthly) *** Biological Multi-Plate Collection and Analysis ***
U.S. Environmental Protection Agency National Core Network Station in West Virginia, established October 1978
> Harpers Ferry, WV-MD-VA Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 15 00 Long. 77 37 30 **>

Parameter Inventory for Station: HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	217	14.8	14.576	31.	0.	78.352	8.852	2.58	6.45	22.95	25.72
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	116	59.5	59.349	88.2	32.	271.116	16.466	36.16	44.25	74.975	81.29
00035	WIND VELOCITY (MILES PER HOUR)	01/13/92-06/13/95	40 ##	2.5	4.638	20.	0.	26.949	5.191	0.1	2.5	5.	14.75
00057	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	173	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	234	1649.	2614.406	20200.	401.	8755264.86	2958.93	562.	886.75	2959.	5124.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	119	1390.	3143.908	128000.	224.	138126267.559	11752.713	561.	786.	2760.	4300.
00065	STAGE, STREAM (FEET)	01/13/92-05/03/94	21	3.38	4.121	9.27	1.71	4.318	2.078	1.864	2.625	6.04	7.37
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/08/60-06/11/74	77	10.	19.435	120.	0.	457.062	21.379	2.	5.	29.	49.2
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	166	6.	7.608	25.	2.5	16.576	4.071	2.5	5.	10.	15.
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	07/17/67-10/20/70	29	2.	2.162	6.	0.5	1.663	1.29	1.	1.	3.	4.
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	02/02/71-01/28/75	30	1.	1.08	2.	1.	0.068	0.261	1.	1.	1.	1.36
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	105	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	161	345.	352.248	800.	90.	11848.1	108.849	237.2	279.5	391.	506.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	271	330.	338.834	740.	17.	11528.672	107.372	220.	259.	400.	491.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	143	9.3	9.537	14.5	1.3	4.819	2.195	7.04	7.7	11.1	12.56
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	159	10.4	10.561	17.7	4.9	5.33	2.309	7.8	8.8	12.1	13.5
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	214	95.	97.075	188.	50.	224.99	15.	84.	90.	102.925	115.3
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	172	2.2	2.651	10.4	0.05	3.648	1.91	0.7	1.4	3.475	5.2
00340	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	156	8.	11.218	44.	0.2	82.219	9.067	2.	4.	15.	25.3
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	227	8.	8.088	9.6	6.	0.421	0.649	7.38	7.7	8.5	9.2
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	227	8.	7.55	9.6	6.	0.712	0.844	7.38	7.7	8.5	9.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	227	0.01	0.028	1.	0.	0.01	0.099	0.001	0.003	0.02	0.042
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	292	8.1	8.137	9.2	7.	0.138	0.372	7.7	7.9	8.4	8.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	292	8.1	7.955	9.2	7.	0.172	0.414	7.7	7.9	8.4	8.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	292	0.008	0.011	0.1	0.001	0.	0.015	0.003	0.004	0.013	0.02
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	320	118.	117.407	252.	0.2	910.277	30.171	81.	100.	135.75	150.

** - Less 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: HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/18/67-06/05/79	49	2.	2.551	7.	0.	2.909	1.706	1.	1.	3.	5.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	09/18/46-10/18/49	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	116	245.5	263.319	608.	88.	7497.923	86.591	176.4	212.	289.	397.5
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/29/60-12/10/74	79	214.	207.873	522.	4.	8305.343	91.134	86.	154.	257.	329.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	308	12.	27.849	563.	0.	3244.183	56.958	1.	5.	26.	60.2
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/10/74-10/23/74	2	0.68	0.68	0.79	0.57	0.024	0.156	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	112	0.07	0.231	17.	0.01	2.559	1.6	0.03	0.05	0.098	0.13
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-07/19/83	61	0.9	1.288	6.2	0.005	1.939	1.393	0.092	0.39	1.46	3.86
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	226	0.38	0.435	1.41	0.05	0.055	0.235	0.2	0.27	0.553	0.816
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	227	1.03	1.024	4.2	0.01	0.291	0.54	0.318	0.68	1.35	1.654
00655	PHOSPHATE, POLY (MG/L AS PO4)	01/02/79-06/05/79	6	0.11	0.152	0.3	0.06	0.01	0.099	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/10/74-12/10/75	8	0.105	0.106	0.25	0.02	0.006	0.079	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	228	0.097	0.124	1.5	0.009	0.015	0.122	0.028	0.062	0.159	0.237
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	65	9.	13.538	39.	2.	104.377	10.217	4.	5.	19.5	32.
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	40	0.002	0.002	0.008	0.001	0.	0.002	0.001	0.001	0.004	0.005
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	193	154.	154.478	296.	0.3	1834.071	42.826	106.	128.	184.	208.
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	52	14.1	19.233	90.	5.3	258.652	16.083	5.84	8.625	24.75	35.88
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/17/67-12/08/70	31	26.	27.729	64.	5.	189.187	13.755	10.12	20.	33.	49.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/17/67-12/08/70	31	2.	2.242	7.1	1.2	1.143	1.069	1.32	1.6	2.6	2.9
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	48	2.2	2.346	3.9	0.2	0.686	0.828	1.5	1.725	3.275	3.51
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	198	15.	16.005	50.	3.	61.863	7.865	8.	11.	20.	26.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	279	39.	49.136	230.	9.	1347.744	36.712	15.	21.	64.	97.
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	157	0.12	0.299	14.	0.005	1.849	1.36	0.08	0.09	0.145	0.202
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	37 ##	1.	3.635	15.	1.	22.565	4.75	1.	1.	5.	14.2
01007	BARIUM, TOTAL (UG/L AS BA)	03/06/79-09/18/84	11 ##	20.	107.273	520.	20.	31461.818	177.375	20.	20.	80.	496.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/21/68-12/08/70	20 ##	1.	1.325	5.	0.5	1.955	1.398	0.5	0.5	1.	4.8
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	126 ##	2.	2.274	12.	1.	2.138	1.462	1.85	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	153 ##	0.5	1.706	11.	0.5	3.67	1.916	0.5	0.5	3.	4.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	54 ##	2.	14.796	560.	2.	5738.656	75.754	2.	2.	5.	11.
01040	COPPER, DISSOLVED (UG/L AS CU)	12/08/70-12/08/70	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	49	7.	7.908	28.	0.5	33.226	5.764	2.	3.	12.	16.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	218	180.	317.206	7800.	5.	387870.33	622.792	69.4	114.5	298.5	600.
01046	IRON, DISSOLVED (UG/L AS FE)	09/07/69-03/02/70	4	115.	132.5	250.	50.	8425.	91.788	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/10/67-12/08/70	28 ##	25.	32.5	100.	10.	336.111	18.333	19.	25.	38.75	52.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	132 ##	20.	19.636	74.	10.	122.08	11.049	10.	10.	20.	30.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	234	28.	55.056	1840.	2.	26092.585	161.532	10.	16.	50.	84.
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	29 ##	20.	25.862	180.	10.	903.695	30.062	20.	20.	20.	30.
01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/68-12/08/70	20 ##	2.5	2.95	10.	1.	4.024	2.006	1.1	2.	2.5	5.9
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	43 ##	2.	3.337	12.	1.	8.794	2.966	1.	2.	4.	10.
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/21/68-12/08/70	3	40.	39.333	50.	28.	121.333	11.015	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	57	44.	106.447	2250.	0.5	88196.747	296.979	20.	30.	84.	168.8
01097	ANTIMONY, TOTAL (UG/L AS SB)	03/06/79-03/26/84	10	60.	66.	140.	20.	2315.556	48.12	20.	20.	120.	138.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	153	160.	263.915	4600.	10.	216017.341	464.777	64.	100.	240.	432.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	22 ##	0.5	0.841	4.	0.5	0.866	0.931	0.5	0.5	0.5	2.7
01501	ALPHA, TOTAL	07/01/80-04/05/83	14 ##	0.4	0.496	2.	0.25	0.207	0.456	0.25	0.25	0.45	1.4
01502	ALPHA, TOTAL, COUNTING ERROR	04/05/83-04/05/83	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03221	INVALID PARAMETER	10/04/77-10/04/77	1	78.21	78.21	78.21	78.21	0.	0.	**	**	**	**
03501	BETA, TOTAL	07/01/80-04/05/83	14	2.5	2.786	7.	1.	3.412	1.847	1.	1.	3.25	6.5
03502	BETA, TOTAL, COUNTING ERROR	07/01/80-04/05/83	11	2.	1.627	3.	0.9	0.468	0.684	0.92	1.	2.	2.8
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	162	640.	5358.13	74000.	5.	183647145.48	13551.647	40.	100.	2000.	14700.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	162	2.805	2.765	4.869	0.699	0.963	0.981	1.602	2.	3.301	4.167
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			582.053								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	270	30.	3073.272	430000.	0.5	903283911.443	30054.682	5.	10.	100.	484.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	270	1.477	1.579	5.633	-0.301	0.701	0.837	0.699	1.	2.	2.685
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			37.914								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	55	20.	75.	770.	5.	19636.111	140.129	5.	5.	70.	234.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	55	1.301	1.341	2.886	0.699	0.444	0.666	0.699	0.699	1.845	2.369
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			21.905								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/02/87-06/13/95	49	3.04	4.651	34.9	0.82	36.707	6.059	1.24	1.935	5.01	7.14
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/03/77-06/13/95	77	3.2	13.552	123.9	0.26	536.633	23.165	1.164	1.85	12.31	43.48
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/02/87-06/13/95	49	1.49	2.424	12.7	0.	6.95	2.636	0.22	0.78	2.985	5.53
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/02/87-06/13/95	56	1.41	1.418	1.88	1.07	0.021	0.145	1.267	1.313	1.488	1.609
32223	CHLOROPHYLL A MG/M2 SPECTROPHOTOMETRIC CORRECTED	05/01/79-09/04/79	4	22.065	20.385	31.74	5.67	174.141	13.196	**	**	**	**

** - Less 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: HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	05/01/79-09/04/79	4	23.84	23.895	36.12	11.78	190.472	13.801	**	**	**	**
32230	CHLOROPHYLL A (MG/L)	04/02/87-06/13/95	56	0.356	0.593	3.66	0.084	0.526	0.726	0.12	0.197	0.6	1.513
32231	CHLOROPHYLL B (MG/L)	04/02/87-06/13/95	56 ##	0.001	0.057	0.71	0.	0.016	0.128	0.	0.	0.061	0.108
32232	CHLOROPHYLL C (MG/L)	04/02/87-06/13/95	56	0.014	0.044	0.41	0.	0.005	0.071	0.	0.	0.07	0.123
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/03/82-10/02/84	24 ##	0.5	0.896	2.	0.5	0.304	0.551	0.5	0.5	1.	2.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	106	233.	240.745	546.	115.	6749.144	82.153	143.7	176.75	292.	354.3
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/10/75-06/07/77	17	0.052	0.085	0.276	0.02	0.005	0.072	0.026	0.031	0.124	0.215
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	182 ##	0.5	0.503	1.	0.5	0.001	0.037	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	64 ##	0.1	0.138	1.	0.05	0.018	0.134	0.1	0.1	0.1	0.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	105	9.	13.031	140.	1.	319.288	17.869	3.	4.	14.	26.6

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EPA Water Quality Criteria Analysis for Station: HAFE0052

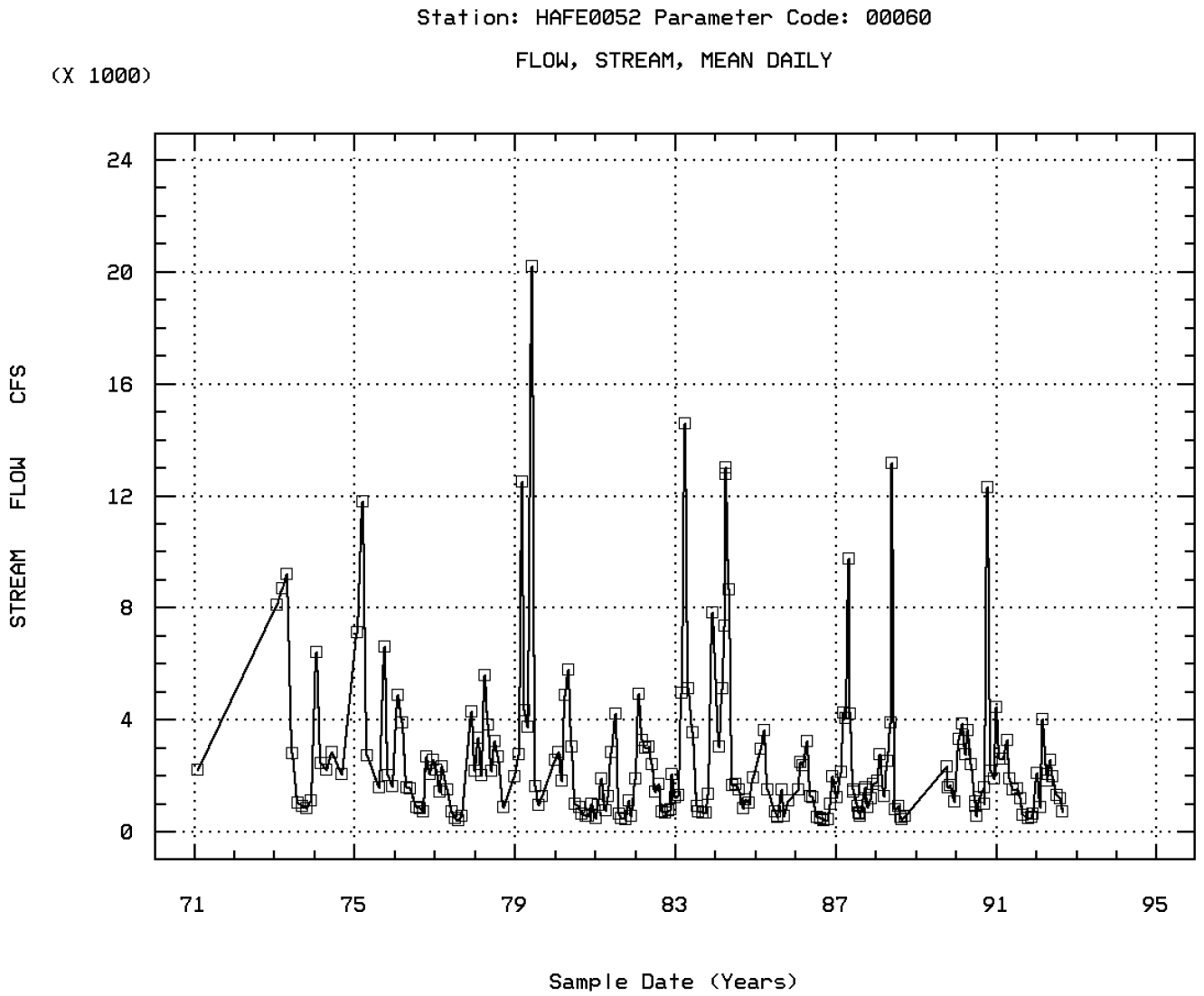
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	76 &	6	0.08	20	0	0.00	28	3	0.11	28	3	0.11			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	143	1	0.01	35	0	0.00	54	1	0.02	54	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	159	0	0.00	48	0	0.00	62	0	0.00	49	0	0.00			
00400	PH	Other-Hi Lim.	9.	227	26	0.11	60	7	0.12	90	14	0.16	77	5	0.06			
		Other-Lo Lim.	6.5	227	3	0.01	60	0	0.00	90	3	0.03	77	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	292	2	0.01	75	0	0.00	116	1	0.01	101	1	0.01			
		Other-Lo Lim.	6.5	292	0	0.00	75	0	0.00	116	0	0.00	101	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	61	0	0.00	17	0	0.00	22	0	0.00	22	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	227	0	0.00	56	0	0.00	91	0	0.00	80	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	40	0	0.00	12	0	0.00	19	0	0.00	9	0	0.00			
		Drinking Water	0.2	40	0	0.00	12	0	0.00	19	0	0.00	9	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	198	0	0.00	59	0	0.00	75	0	0.00	64	0	0.00			
		Drinking Water	250.	198	0	0.00	59	0	0.00	75	0	0.00	64	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	279	0	0.00	73	0	0.00	108	0	0.00	98	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	157	2	0.01	41	0	0.00	65	1	0.02	51	1	0.02			
01002	ARSENIC, TOTAL	Fresh Acute	360.	37	0	0.00	10	0	0.00	15	0	0.00	12	0	0.00			
		Drinking Water	50.	37	0	0.00	10	0	0.00	15	0	0.00	12	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	11	0	0.00	5	0	0.00	5	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	18 &	0	0.00	6	0	0.00	6	0	0.00	6	0	0.00			
		Drinking Water	5.	18 &	0	0.00	6	0	0.00	6	0	0.00	6	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	122 &	6	0.05	32	2	0.06	48	4	0.08	42	0	0.00			
		Drinking Water	5.	122 &	4	0.03	32	1	0.03	48	3	0.06	42	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	153	0	0.00	41	0	0.00	60	0	0.00	52	0	0.00			
		Drinking Water	100.	153	0	0.00	41	0	0.00	60	0	0.00	52	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	54	1	0.02	17	0	0.00	24	0	0.00	13	1	0.08			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	49	3	0.06	13	0	0.00	22	1	0.05	14	2	0.14			
		Drinking Water	1300.	49	0	0.00	13	0	0.00	22	0	0.00	14	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	28	1	0.04	8	0	0.00	11	0	0.00	9	1	0.11			
		Drinking Water	15.	15 &	13	0.87	5	5	1.00	5	4	0.80	5	4	0.80			
01051	LEAD, TOTAL	Fresh Acute	82.	132	0	0.00	34	0	0.00	50	0	0.00	48	0	0.00			
		Drinking Water	15.	73 &	29	0.40	18	9	0.50	30	12	0.40	25	8	0.32			
01067	NICKEL, TOTAL	Fresh Acute	1400.	29	0	0.00	11	0	0.00	13	0	0.00	5	0	0.00			
		Drinking Water	100.	29	1	0.03	11	0	0.00	13	0	0.00	5	1	0.20			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	17 &	0	0.00	6	0	0.00	6	0	0.00	5	0	0.00			
		Drinking Water	100.	20	0	0.00	7	0	0.00	6	0	0.00	7	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	39 &	6	0.15	13	1	0.08	17	3	0.18	9	2	0.22			
		Drinking Water	100.	43	0	0.00	14	0	0.00	17	0	0.00	12	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	57	9	0.16	18	1	0.06	24	6	0.25	15	2	0.13			
		Drinking Water	5000.	57	0	0.00	18	0	0.00	24	0	0.00	15	0	0.00			

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

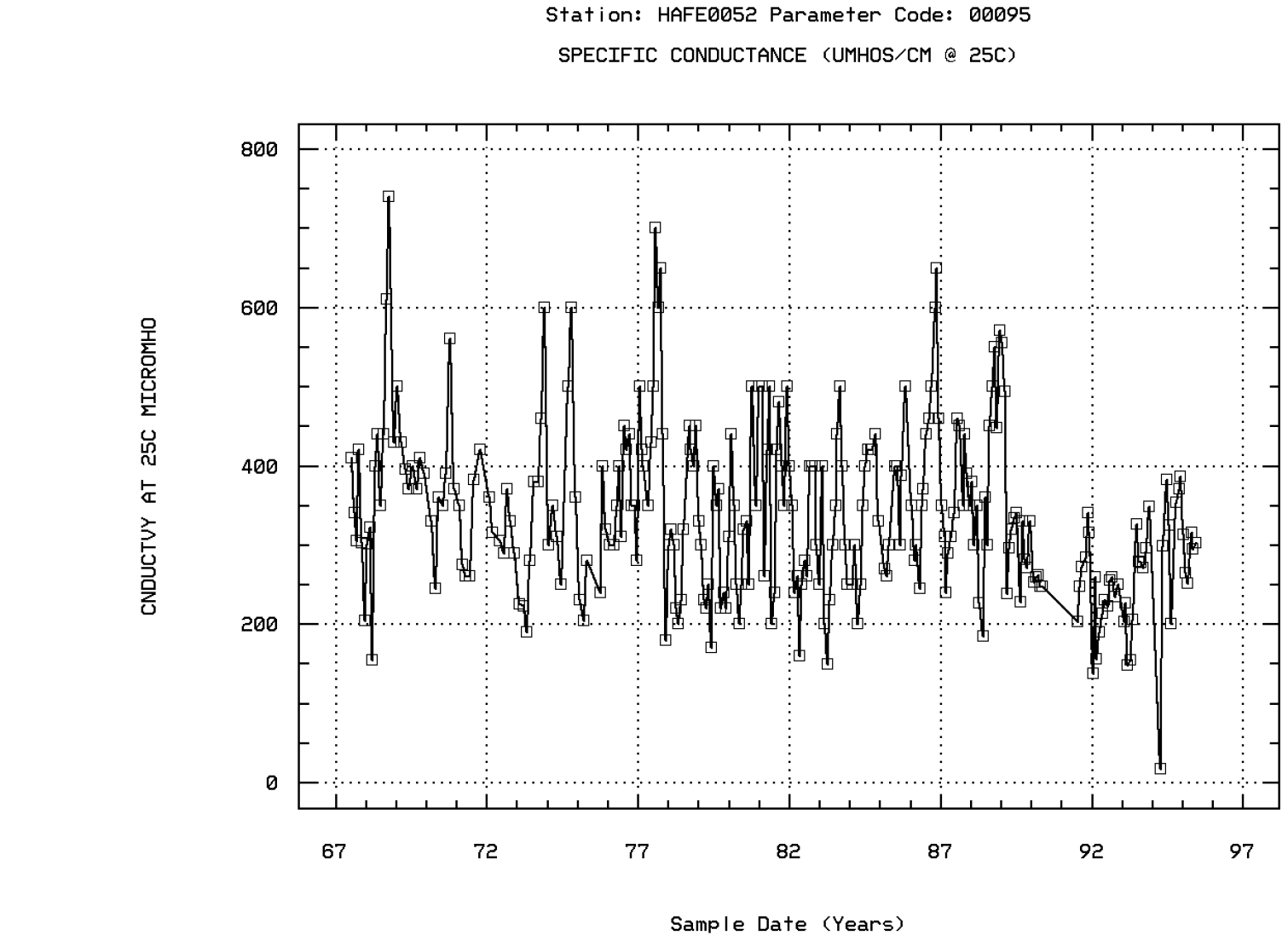
EPA Water Quality Criteria Analysis for Station: HAFE0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01097	ANTIMONY, TOTAL	Fresh Acute	88.	10	3	0.30	5	1	0.20	4	1	0.25	1	1	1.00			
		Drinking Water	6.	6 &	6	1.00	2	2	1.00	3	3	1.00	1	1	1.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	22	0	0.00	8	0	0.00	10	0	0.00	4	0	0.00			
		Drinking Water	50.	22	0	0.00	8	0	0.00	10	0	0.00	4	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	162	75	0.46	43	27	0.63	67	20	0.30	52	28	0.54			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	265 &	40	0.15	67	14	0.21	110	12	0.11	88	14	0.16			
71900	MERCURY, TOTAL	Fresh Acute	2.4	64	0	0.00	20	0	0.00	28	0	0.00	16	0	0.00			
		Drinking Water	2.	64	0	0.00	20	0	0.00	28	0	0.00	16	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	105	3	0.03	29	0	0.00	41	1	0.02	35	2	0.06			

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



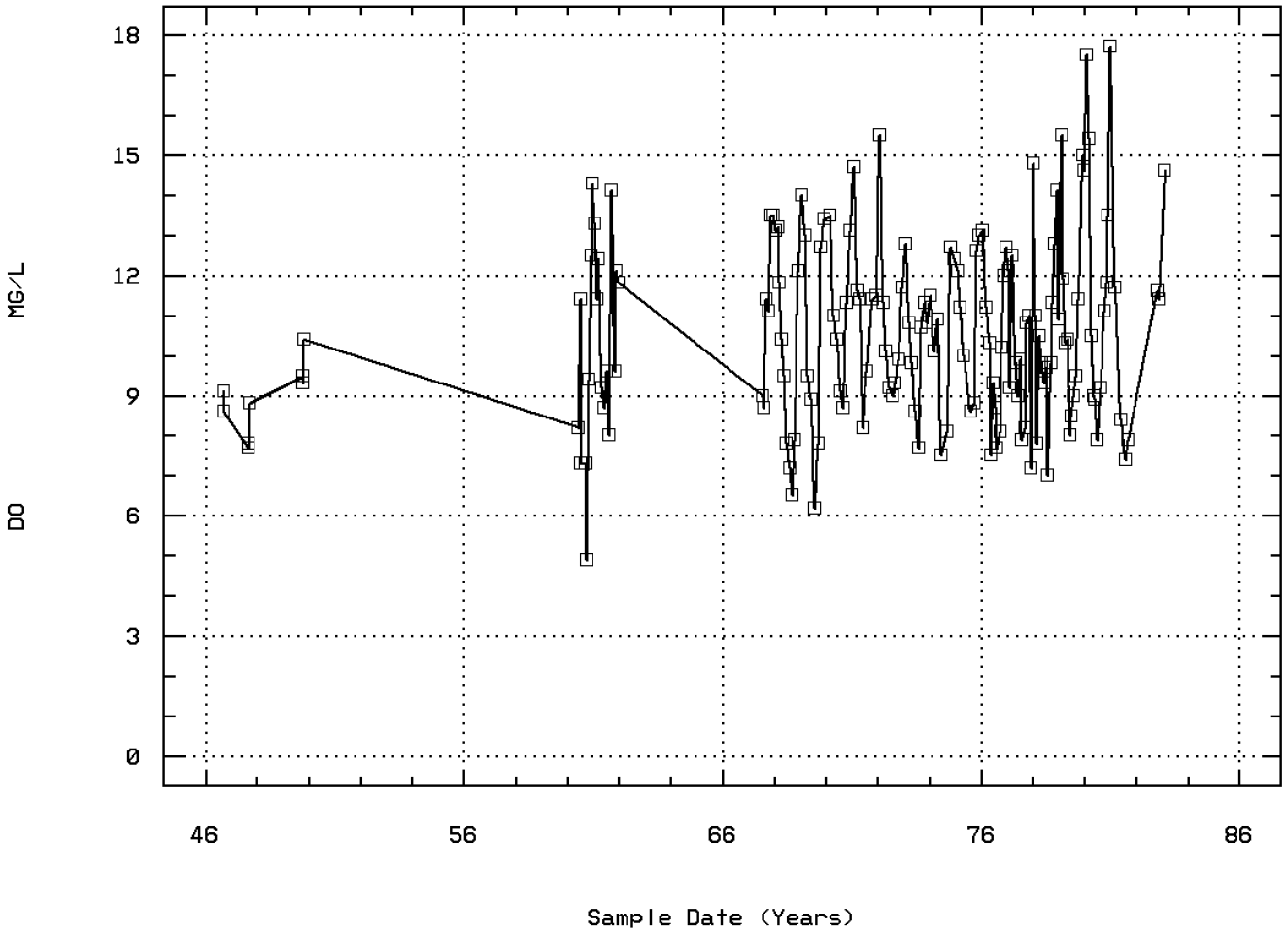
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00300

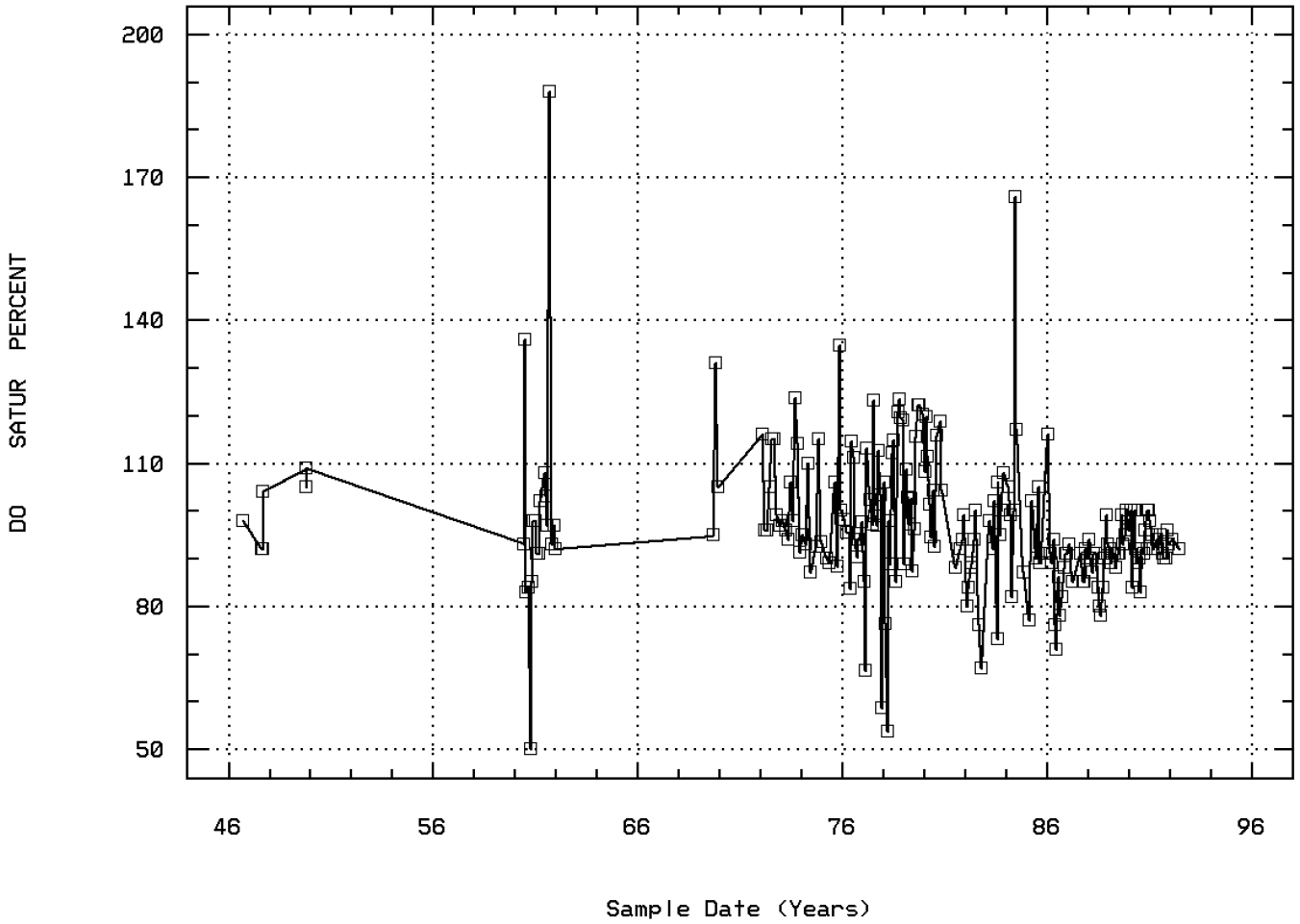
OXYGEN, DISSOLVED



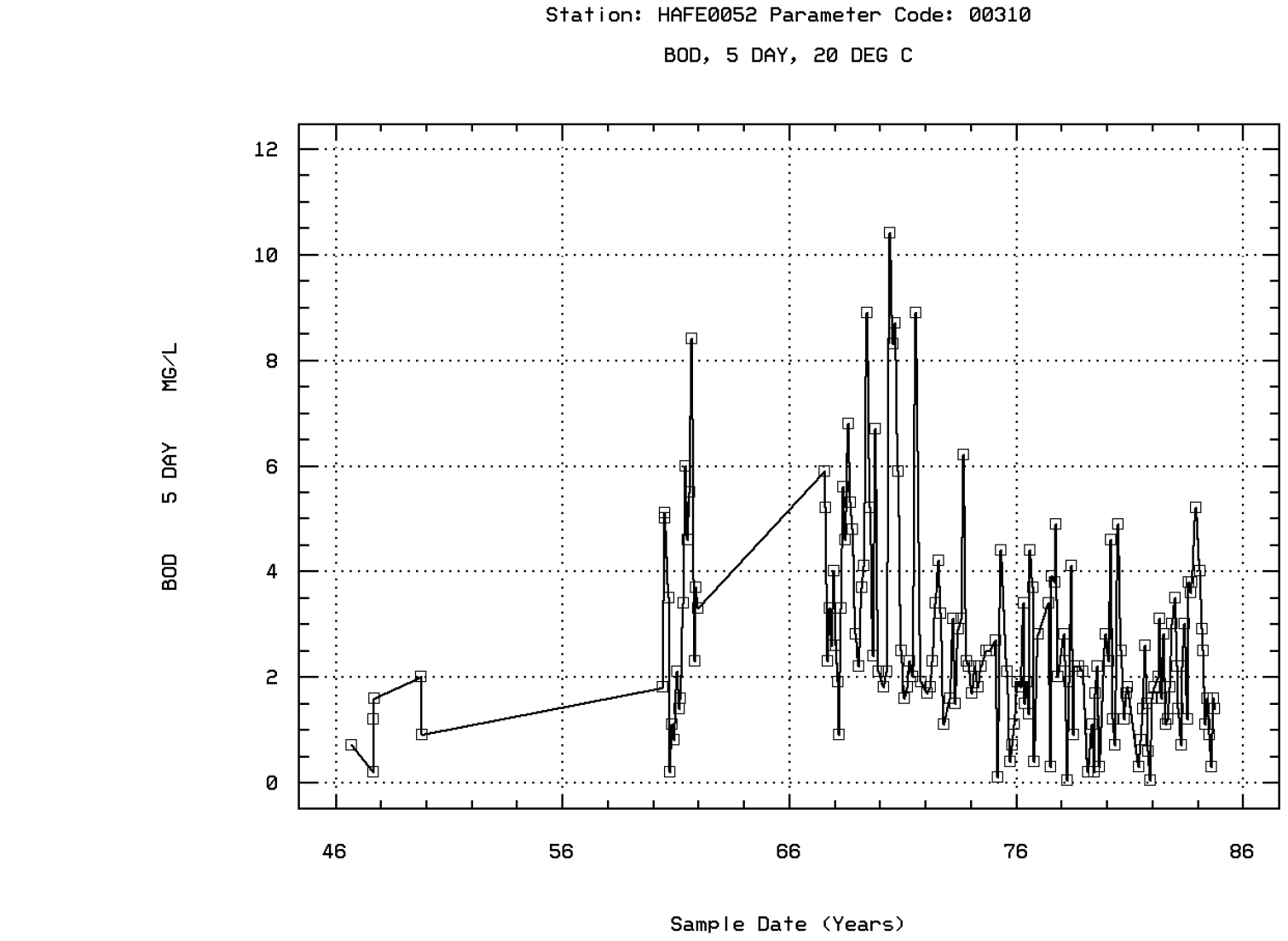
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00301

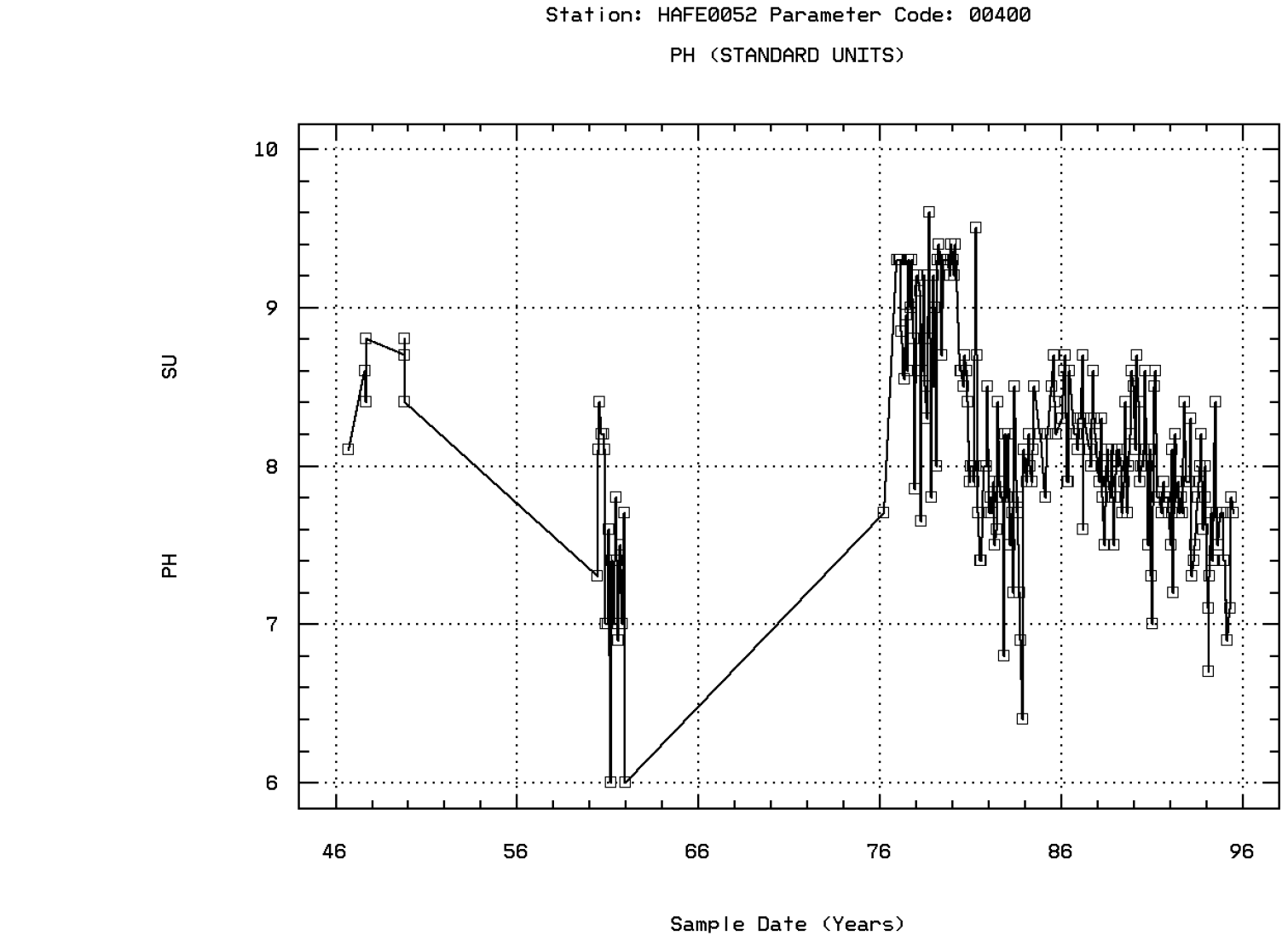
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



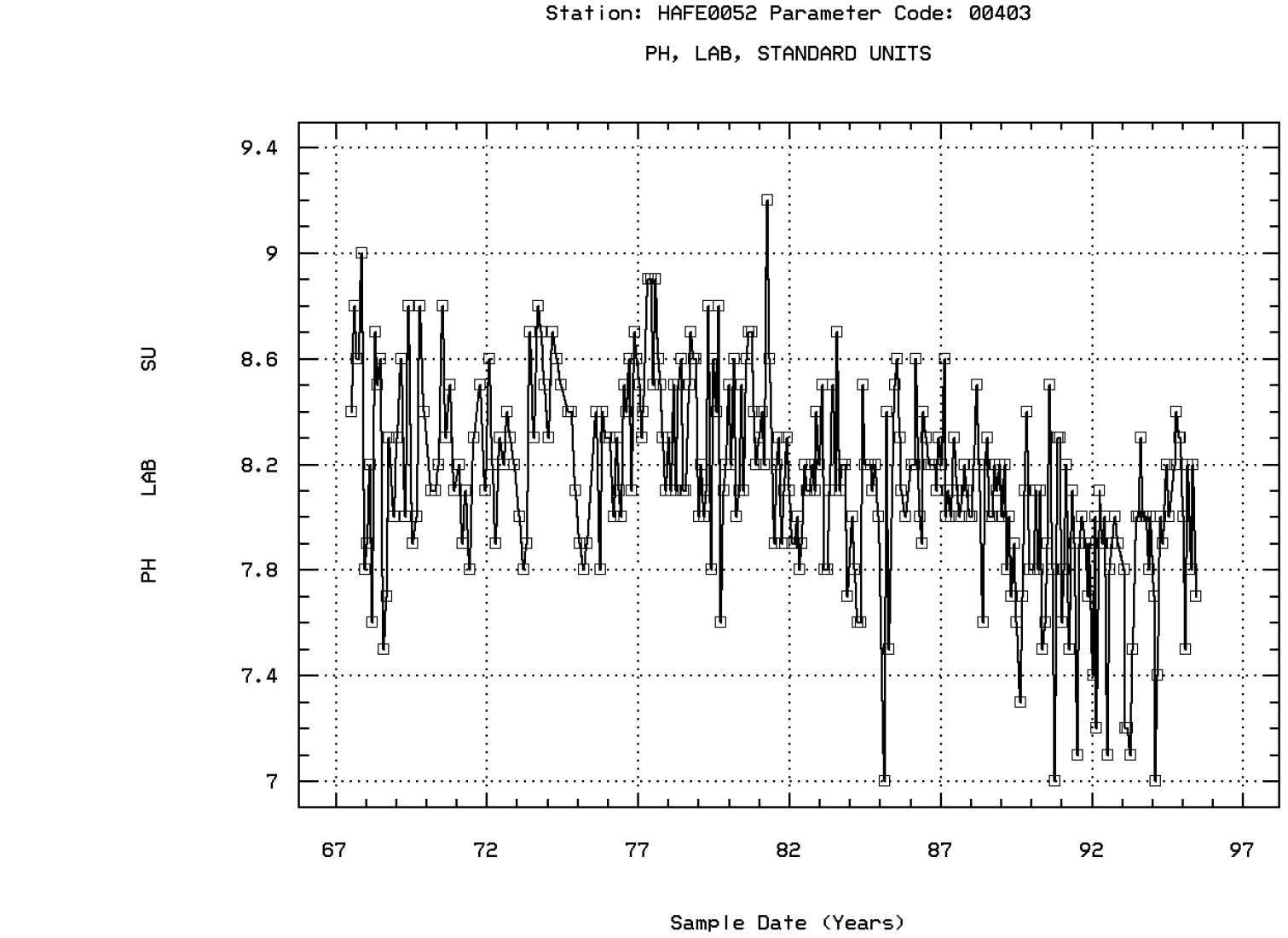
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V



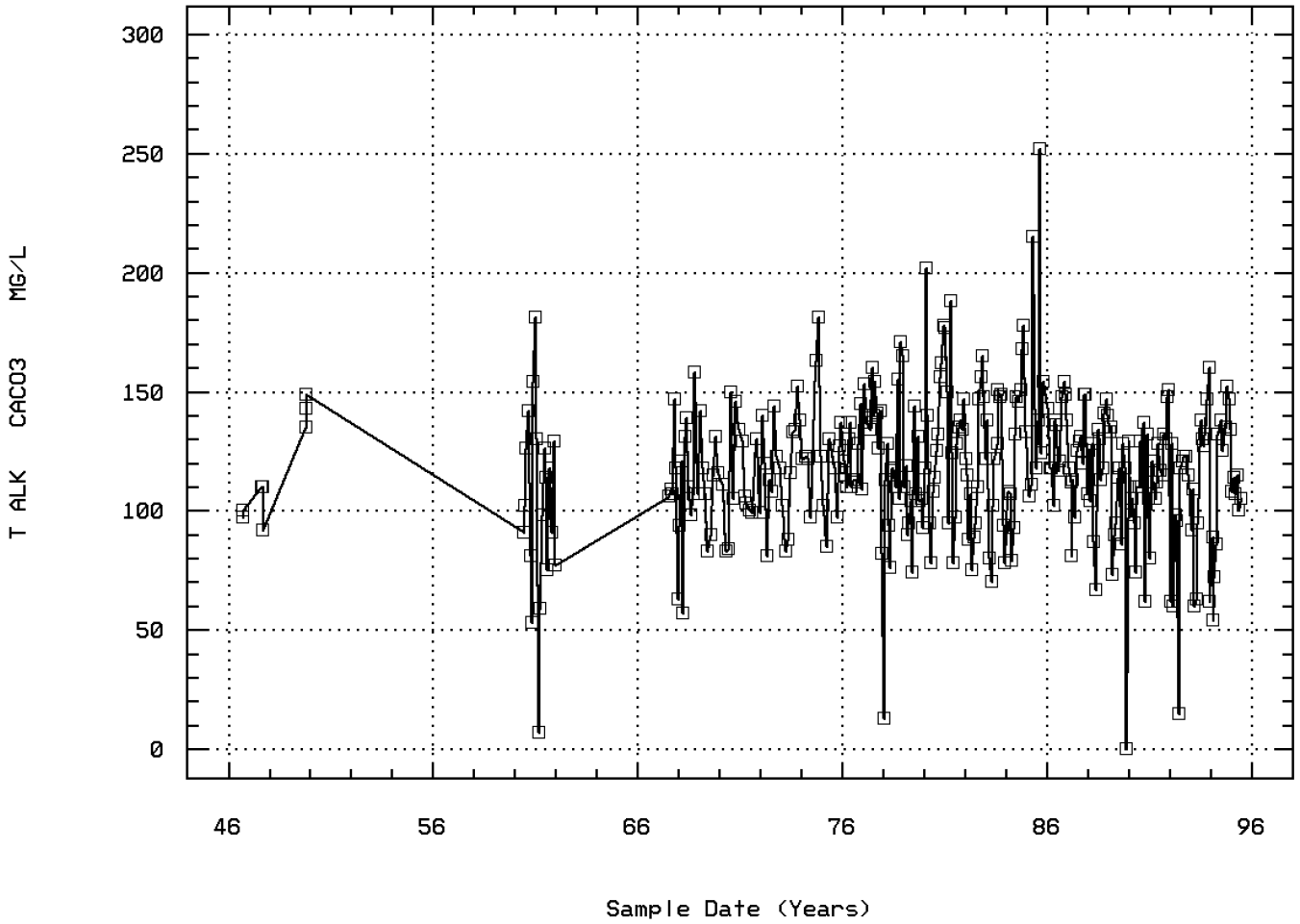
Shenandoah River at Harpers Ferry, W. V



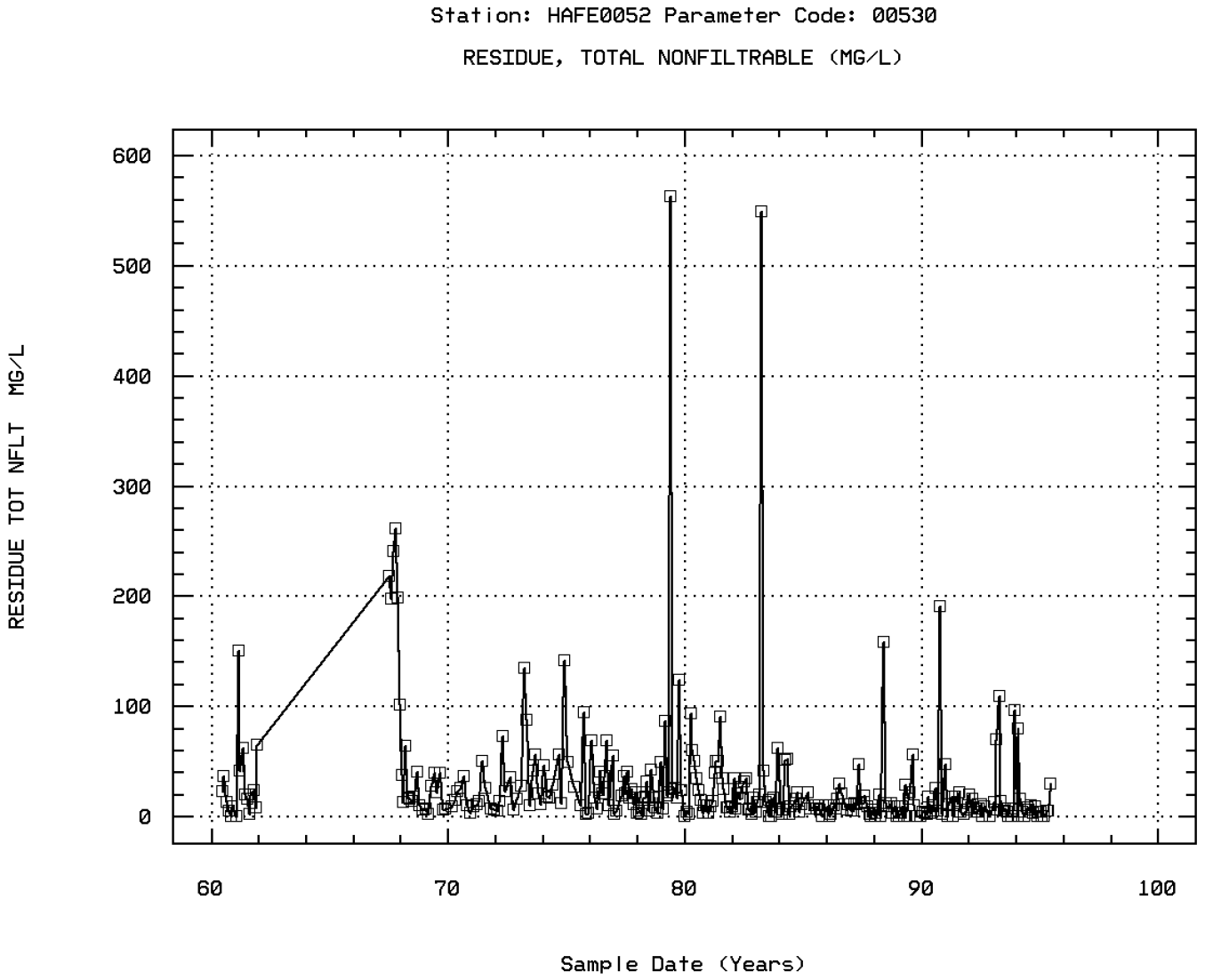
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00410

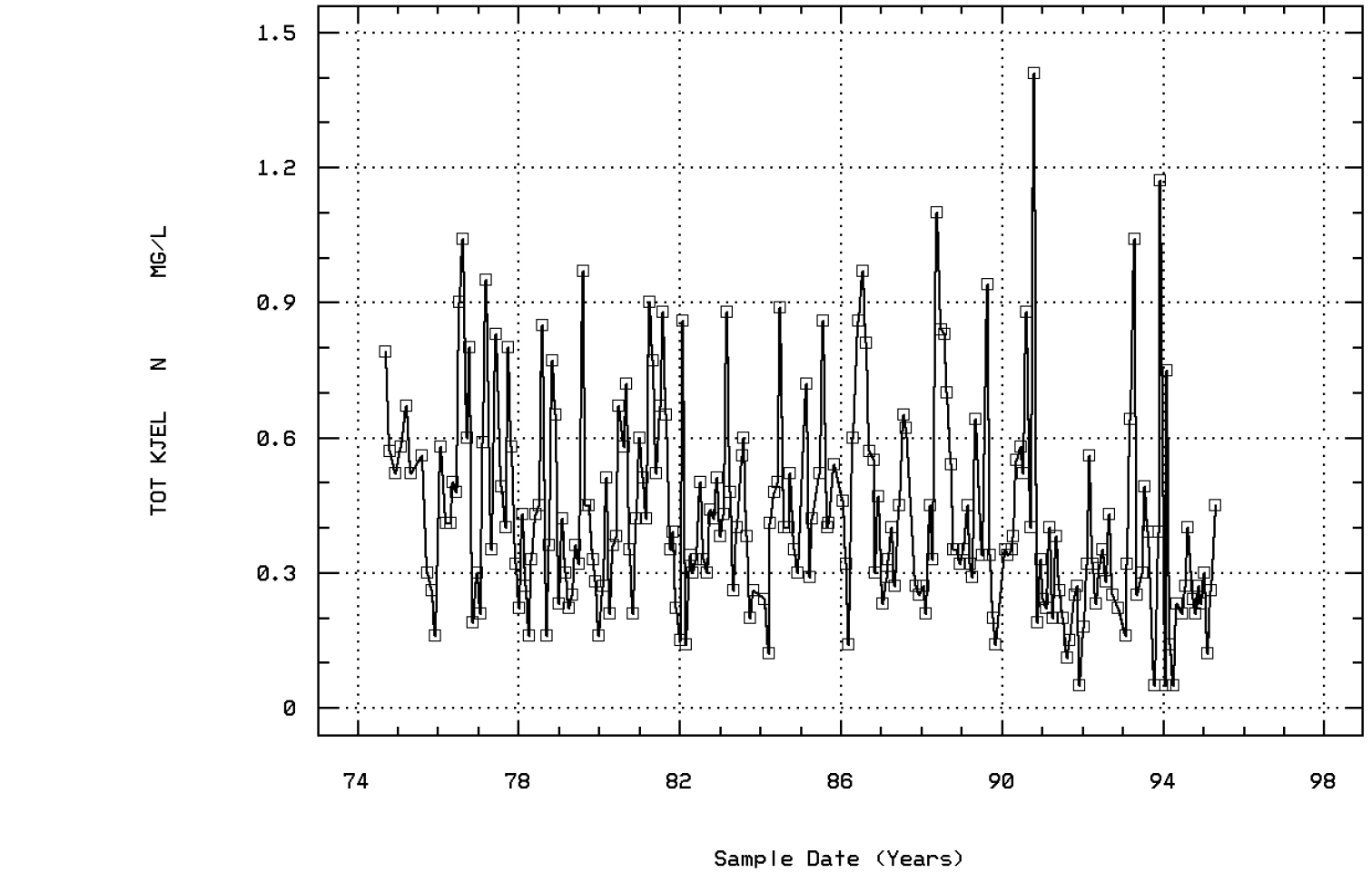
ALKALINITY, TOTAL (MG/L AS CACO3)



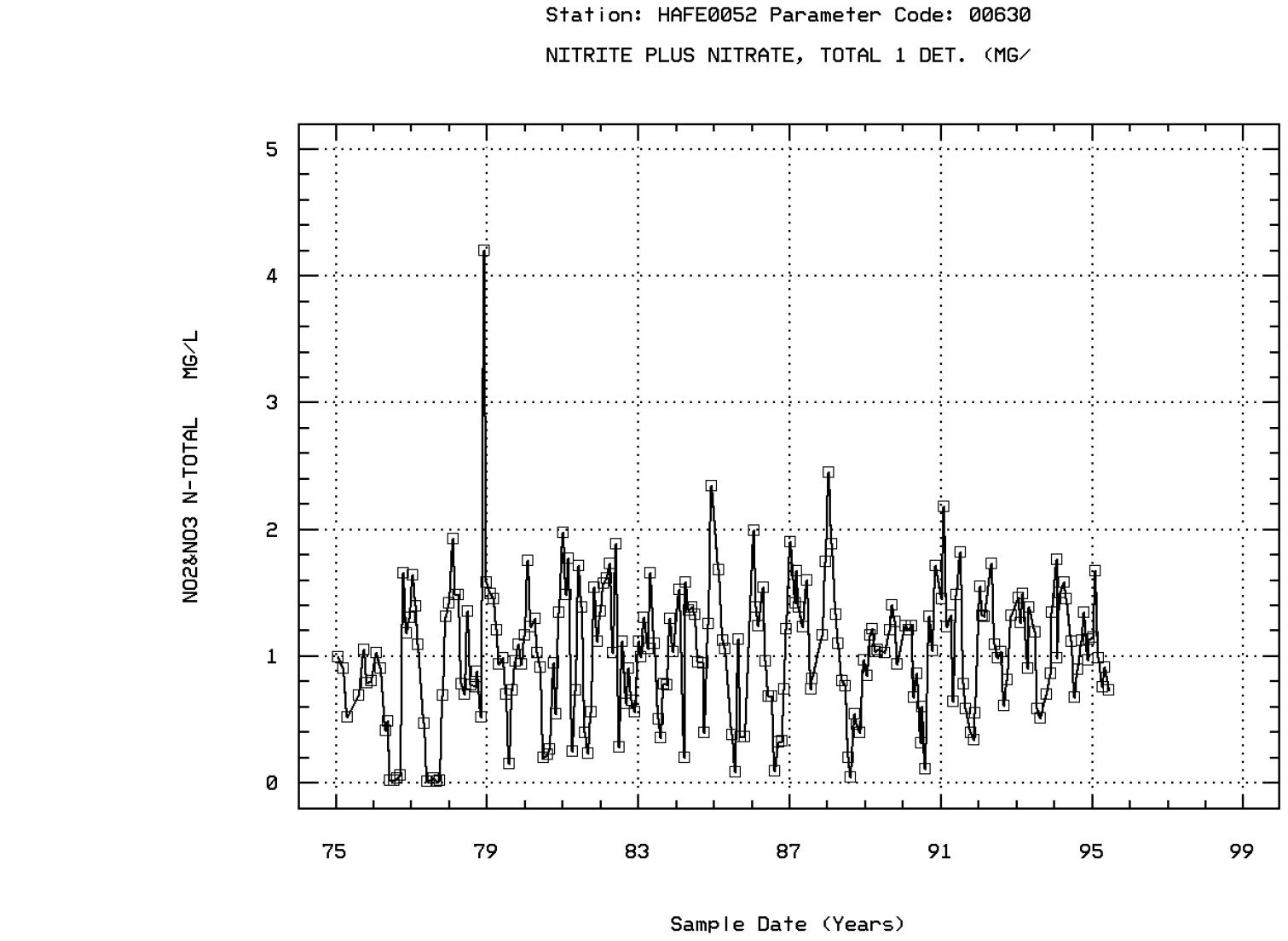
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V



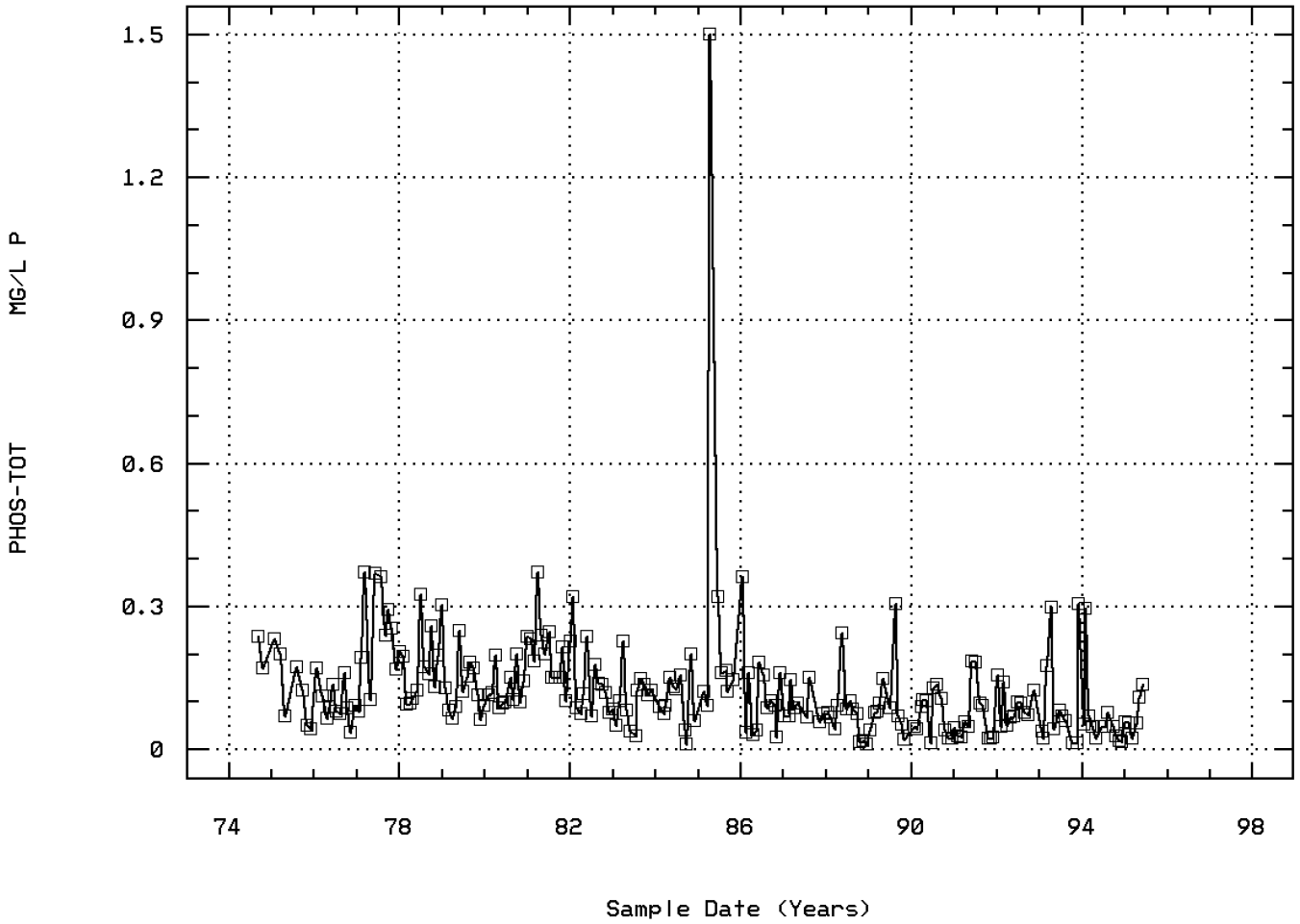
Shenandoah River at Harpers Ferry, W. V



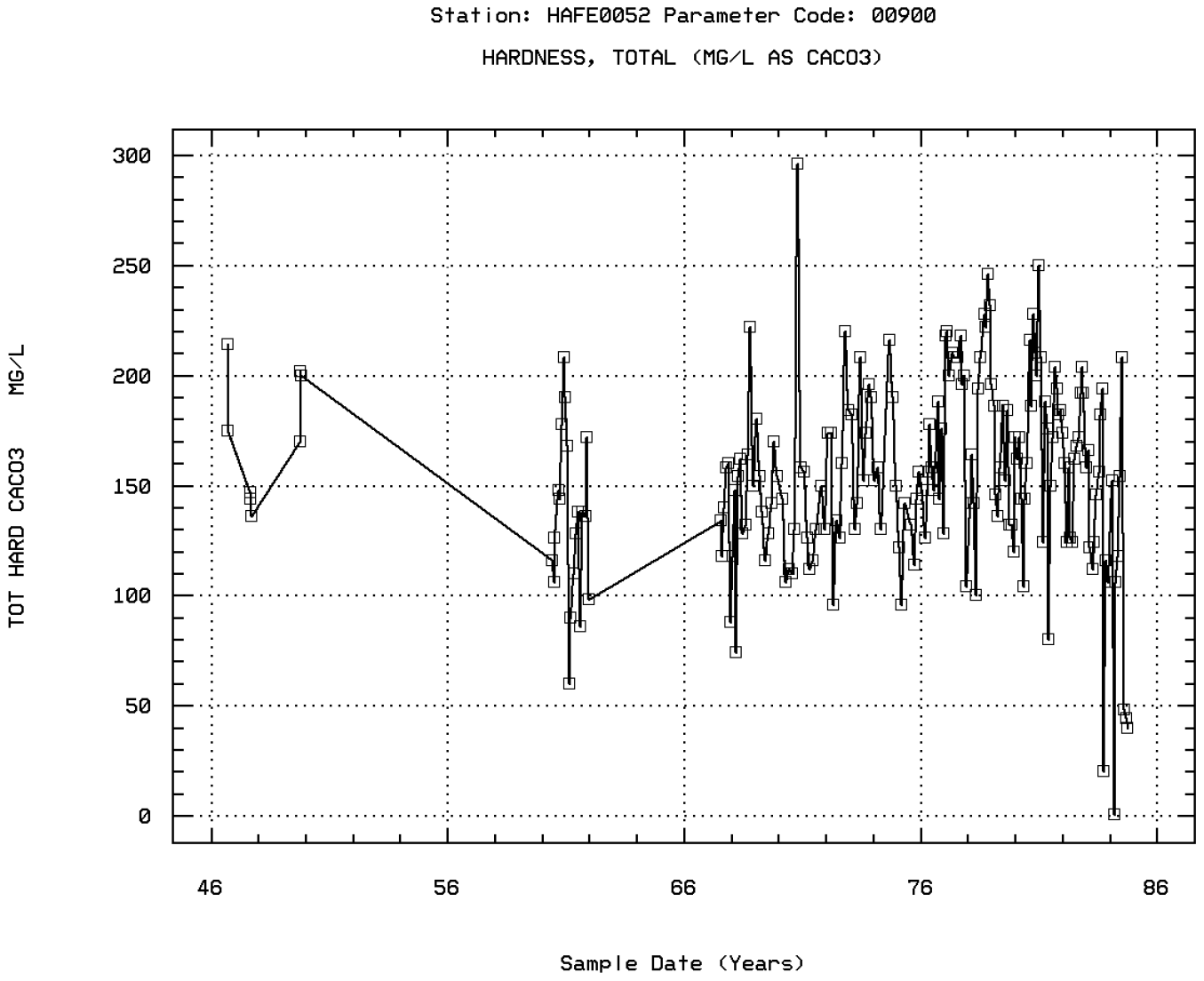
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00665

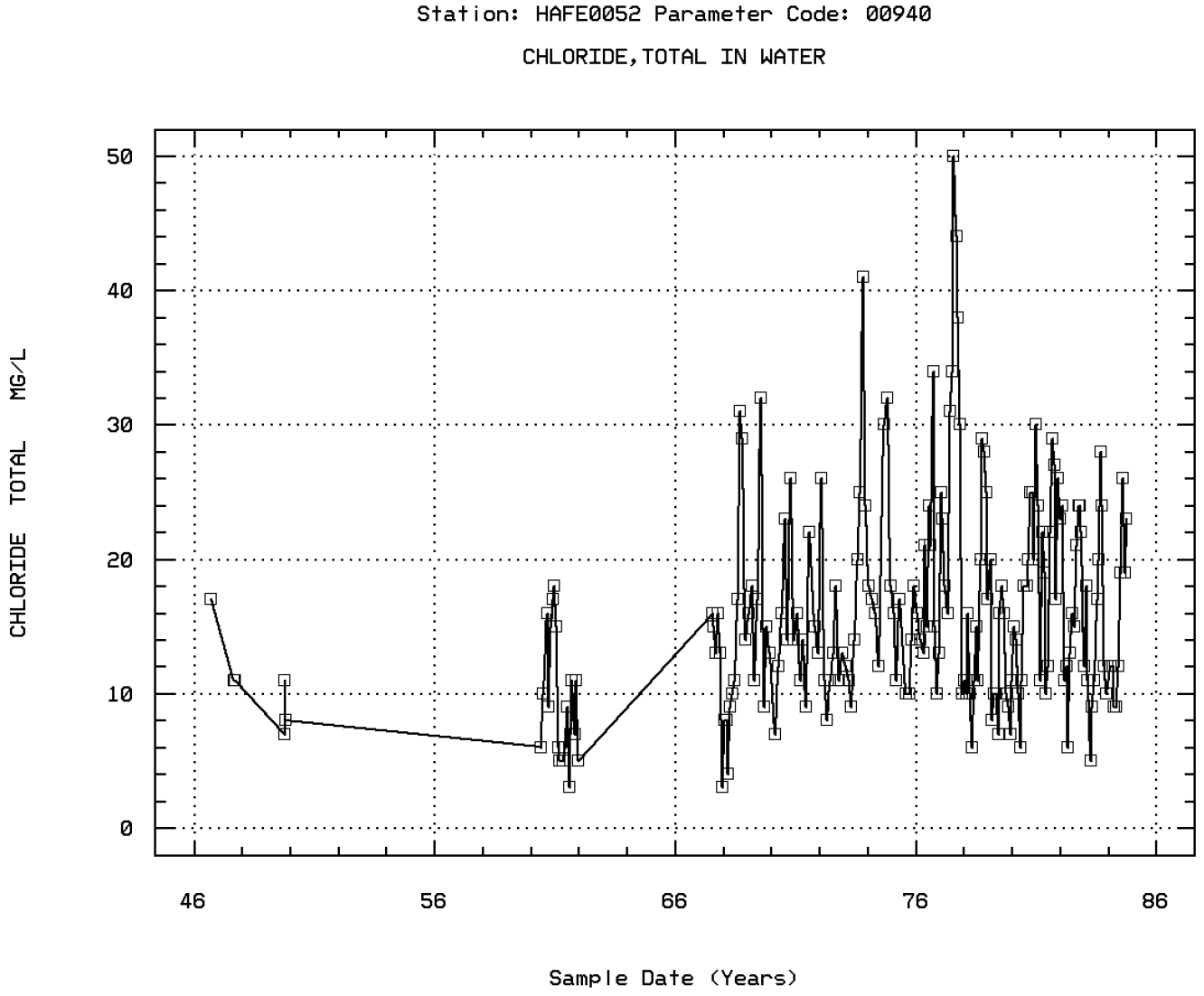
PHOSPHORUS, TOTAL (MG/L AS P)



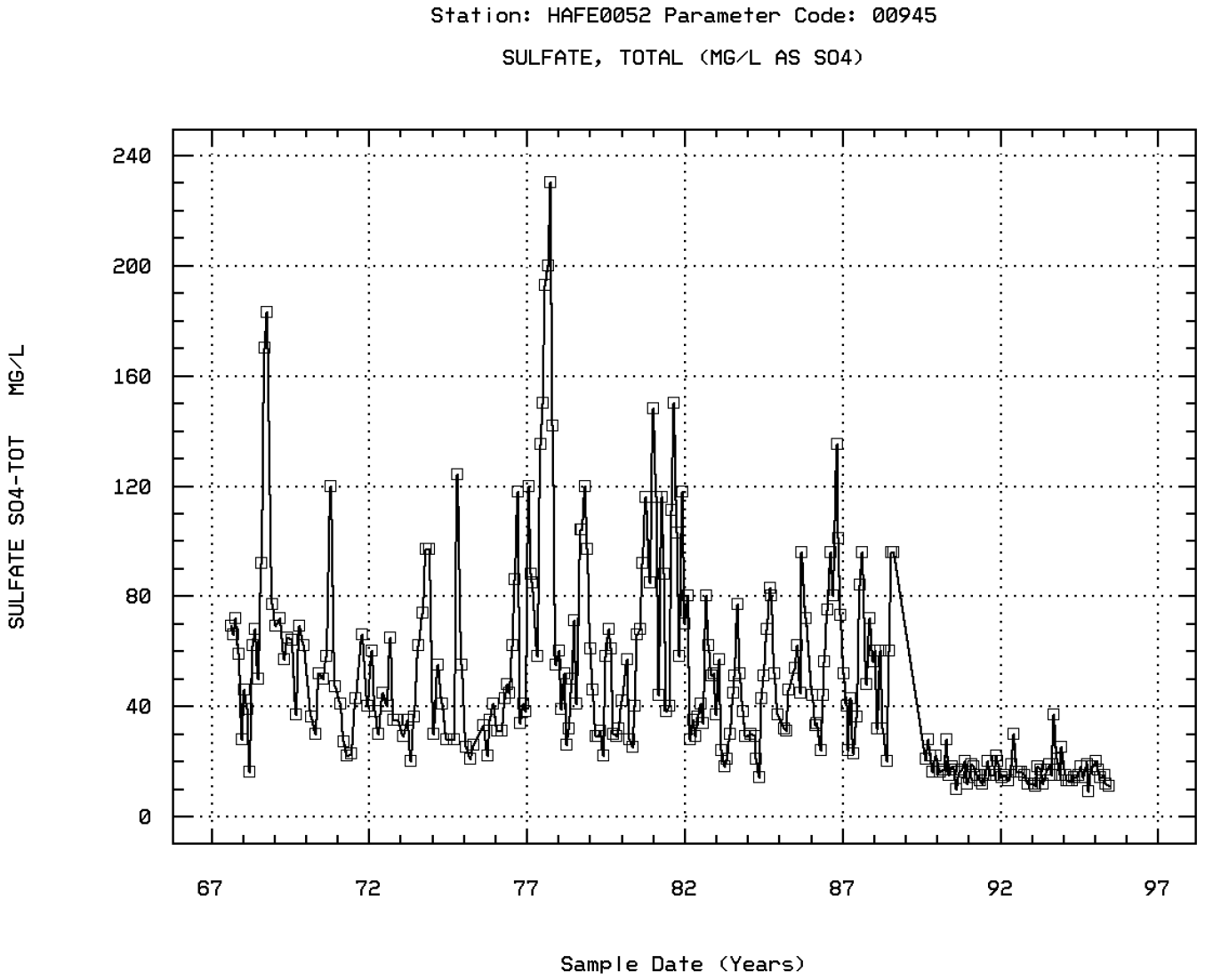
Shenandoah River at Harpers Ferry, W. V



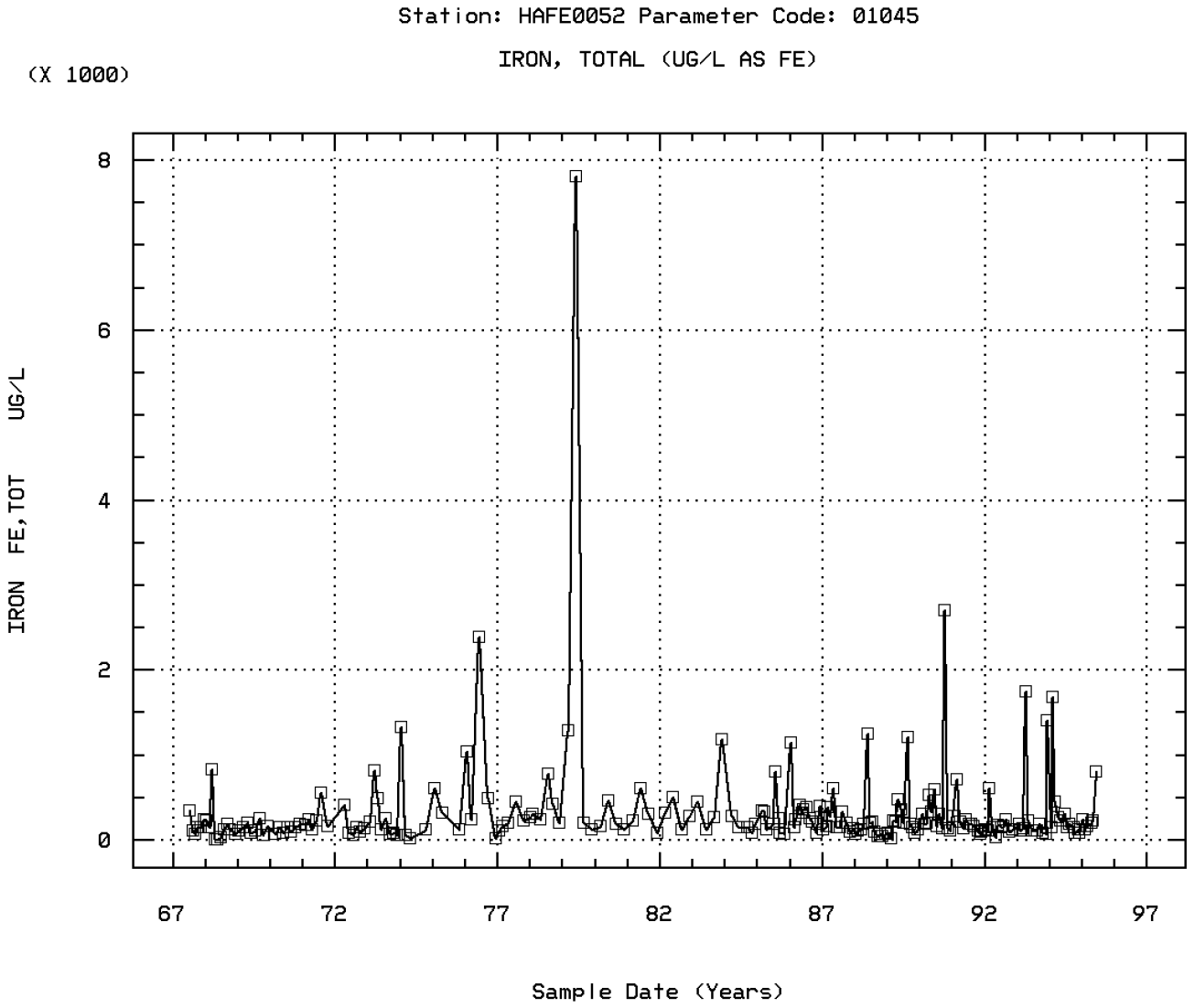
Shenandoah River at Harpers Ferry, W. V



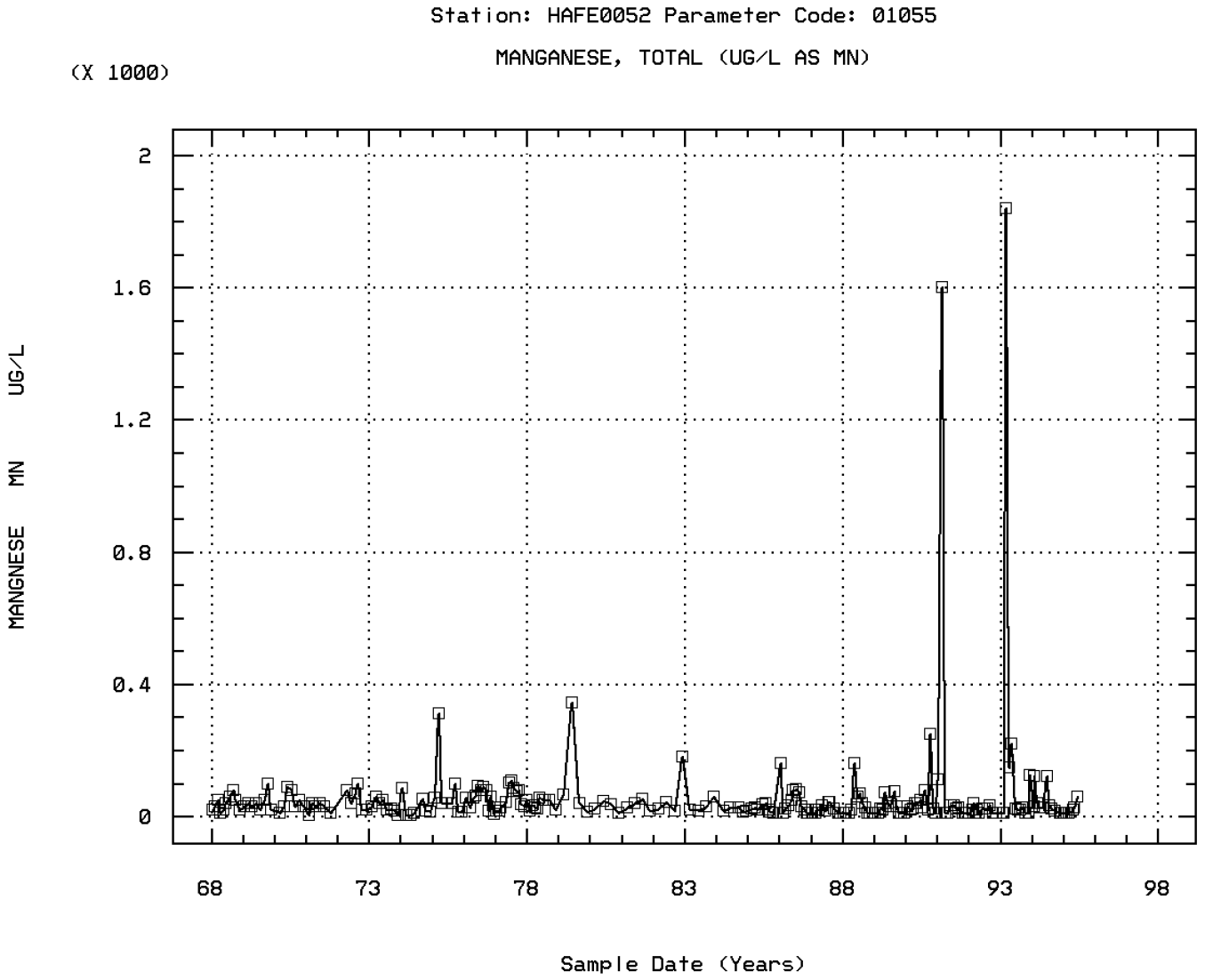
Shenandoah River at Harpers Ferry, W. V



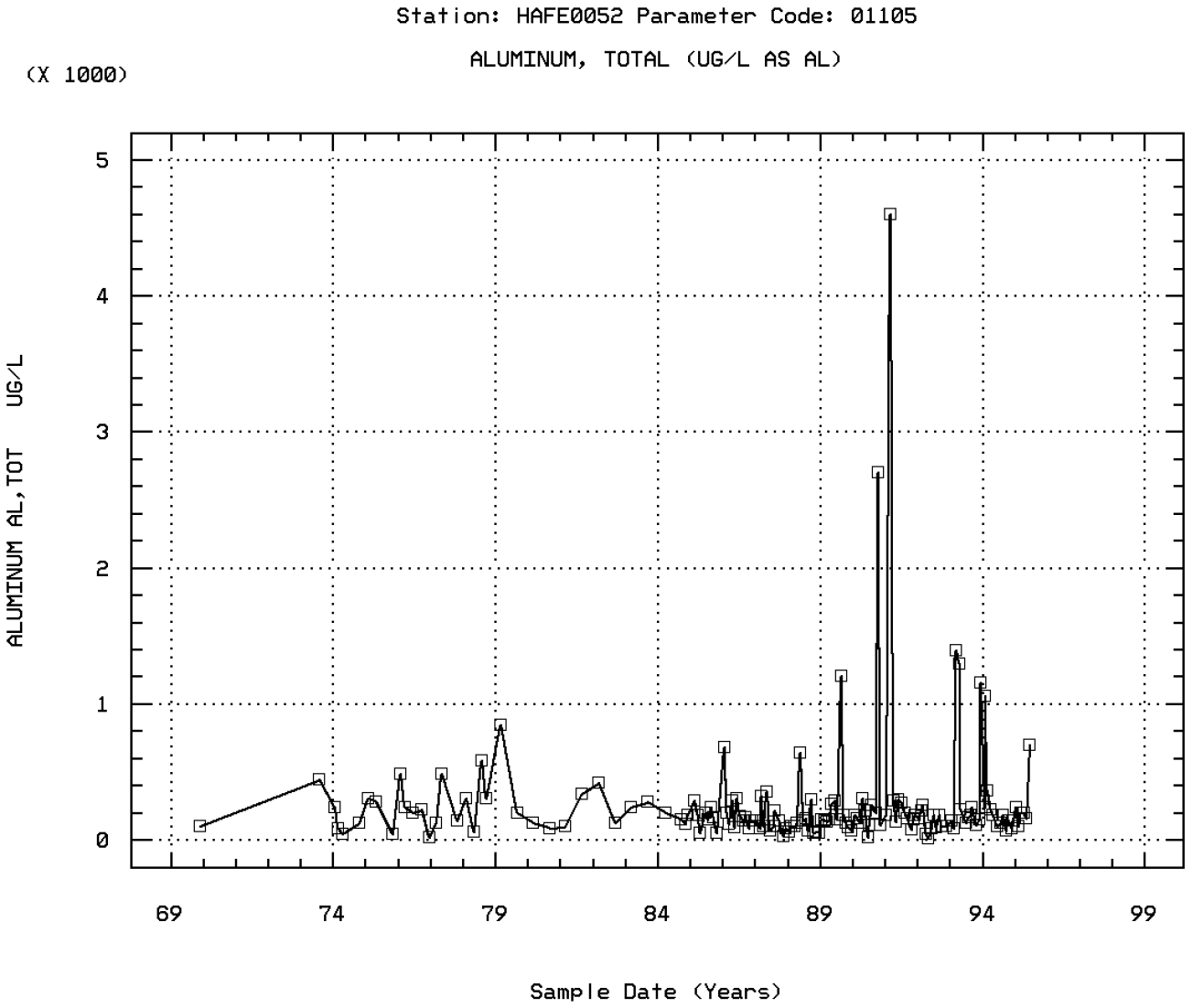
Shenandoah River at Harpers Ferry, W. V



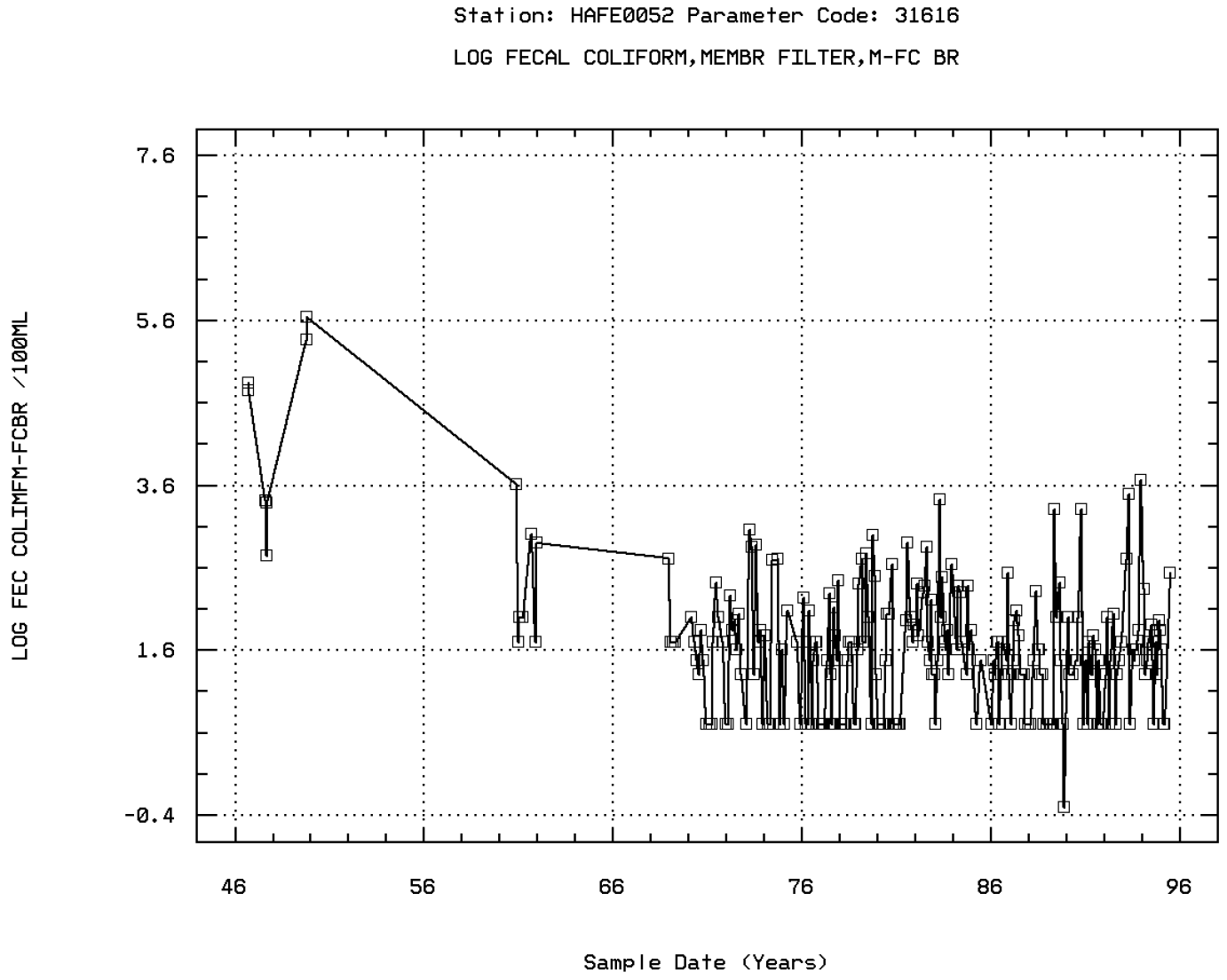
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Annual Analysis for 1946 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	2	20.5	20.5	22.	19.	4.5	2.121	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	2	765.	765.	765.	765.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	2	8.85	8.85	9.1	8.6	0.125	0.354	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	2	98.	98.	98.	98.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	2	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	2	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	2	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	2	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	2	98.5	98.5	100.	97.	4.5	2.121	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	2	194.5	194.5	214.	175.	760.5	27.577	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	2	17.	17.	17.	17.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2	##61500.	61500.	68000.	55000.	84500000.	9192.388	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2	## 4.786	4.786	4.833	4.74	0.004	0.065	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			61155.539								

** - Less 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 1947 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	3	25.	25.	26.	24.	1.	1.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	3	800.	783.333	910.	640.	18433.333	135.769	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	3	7.8	8.1	8.8	7.7	0.37	0.608	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	3	92.	96.	104.	92.	48.	6.928	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	3	1.2	1.	1.6	0.2	0.52	0.721	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	3	8.6	8.6	8.8	8.4	0.04	0.2	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	3	8.6	8.57	8.8	8.4	0.041	0.203	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	3	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	3	110.	104.	110.	92.	108.	10.392	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	3	144.	142.333	147.	136.	32.333	5.686	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	3	11.	11.	11.	11.	0.	0.	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	3	2400.	1850.	2600.	550.	1277500.	1130.265	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	3	3.38	3.179	3.415	2.74	0.144	0.38	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1508.397								

** - Less 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 1949 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	3	22.	21.	23.	18.	7.	2.646	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	3	855.	844.	891.	786.	2847.	53.357	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	3	9.5	9.733	10.4	9.3	0.343	0.586	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	3	109.	107.667	109.	105.	5.333	2.309	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	3	2.	1.633	2.	0.9	0.403	0.635	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	3	8.7	8.633	8.8	8.4	0.043	0.208	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	3	8.7	8.599	8.8	8.4	0.045	0.212	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	3	0.002	0.003	0.004	0.002	0.	0.001	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	3	143.	142.333	149.	135.	49.333	7.024	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	1	264.	264.	264.	264.	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	3	200.	190.667	202.	170.	321.333	17.926	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	3	8.	8.667	11.	7.	4.333	2.082	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2	330000.	330000.	430000.	230000.	20000000000.	141421.356	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2	5.498	5.498	5.633	5.362	0.037	0.192	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			314483.704								

** - Less 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 1960 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	8	19.5	15.625	25.	0.	86.268	9.288	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	8.8	9.413	14.3	4.9	9.733	3.12	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	8	89.	90.875	136.	50.	565.268	23.775	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	1.45	2.313	5.1	0.2	3.801	1.95	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	8	8.1	7.788	8.4	7.	0.341	0.584	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	8	8.1	7.452	8.4	7.	0.47	0.686	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	8	0.008	0.035	0.1	0.004	0.002	0.043	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	8	114.	116.25	181.	53.	1779.929	42.189	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	7	230.	254.857	381.	173.	4413.476	66.434	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	7	9.	12.429	36.	0.	169.952	13.037	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	146.	152.	208.	106.	1346.286	36.692	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	12.5	12.625	18.	6.	19.411	4.406	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2 ##	2025.	2025.	4000.	50.	7801250.	2793.072	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2 ##	2.651	2.651	3.602	1.699	1.811	1.346	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			447.214								

** - Less 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 1961 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	10	10.5	14.1	31.	0.	120.1	10.959	0.5	5.75	26.25	30.6
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	11.4	10.927	14.1	8.	4.026	2.007	8.14	9.2	12.4	13.94
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	10	97.	106.2	188.	91.	858.844	29.306	91.	91.75	104.25	180.
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	11	3.4	3.845	8.4	1.4	4.567	2.137	1.44	2.1	5.5	7.92
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.4	7.118	7.8	6.	0.392	0.626	6.	6.9	7.6	7.78
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.4	6.644	7.8	6.	0.639	0.799	6.	6.9	7.6	7.78
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	11	0.04	0.227	1.	0.016	0.147	0.384	0.017	0.025	0.126	1.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	11	98.	93.091	130.	7.	1398.091	37.391	17.4	75.	126.	129.8
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	11	197.	202.364	283.	88.	2912.455	53.967	102.2	175.	236.	279.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	11	20.	37.091	150.	0.	1881.691	43.378	0.4	8.	62.	133.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	128.	120.364	172.	60.	1221.455	34.949	65.2	90.	138.	171.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	11	6.	7.545	15.	3.	12.673	3.56	3.4	5.	11.	14.2
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	5	100.	410.	1000.	50.	205500.	453.321	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	5	2.	2.32	3.	1.699	0.348	0.59	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			209.128								

** - Less 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 1967 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	6	7.5	8.083	12.	2.5	12.842	3.584	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	6	322.5	330.5	420.	205.	6315.5	79.47	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	6	11.25	11.2	13.5	8.7	4.344	2.084	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	3.65	3.883	5.9	2.3	2.062	1.436	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	6	8.6	8.533	9.	7.8	0.171	0.413	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	6	8.6	8.34	9.	7.8	0.216	0.464	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	6	0.003	0.005	0.016	0.001	0.	0.006	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	6	108.	108.333	147.	63.	730.267	27.023	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	6	249.	231.333	271.	141.	2203.867	46.945	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	6	208.	202.667	261.	101.	3099.467	55.673	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	137.	133.	160.	88.	730.8	27.033	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	6	14.	12.667	16.	3.	24.267	4.926	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	5	66.	58.8	72.	28.	319.7	17.88	**	**	**	**

** - Less 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 1967 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	2 ##	0.258	0.258	0.51	0.005	0.128	0.357	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	6	150.	175.	340.	60.	10030.	100.15	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	10	1350.	6284.	35000.	50.	137896671.111	11742.941	74.	372.5	6500.	33500.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	10	3.13	3.13	4.544	1.699	0.69	0.83	1.775	2.567	3.551	4.52
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1348.951								

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

Annual Analysis for 1968 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	10	64.7	60.1	88.2	35.4	356.298	18.876	35.5	41.725	74.475	87.78
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	10	6.	6.05	15.	2.5	13.303	3.647	2.5	2.5	7.	14.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	10	415.	418.8	740.	155.	26519.511	162.848	169.6	316.75	482.5	727.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	10	9.95	9.95	13.2	6.5	6.358	2.522	6.57	7.65	12.35	13.19
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	10	3.95	3.86	6.8	0.9	3.423	1.85	1.	2.425	5.375	6.68
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	10	8.1	8.1	8.7	7.5	0.182	0.427	7.51	7.675	8.525	8.69
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	10	8.089	7.927	8.7	7.5	0.215	0.464	7.51	7.675	8.525	8.69
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	10	0.008	0.012	0.032	0.002	0.	0.01	0.002	0.003	0.021	0.031
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	10	108.5	112.2	158.	57.	765.067	27.66	60.7	97.	133.	156.1
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	10	264.5	291.5	532.	182.	12322.5	111.007	184.2	212.25	329.5	522.7
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	10	16.5	23.5	64.	6.	323.611	17.989	6.4	12.25	37.75	61.6
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	149.	145.2	222.	74.	1435.733	37.891	78.4	125.5	162.5	216.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	10	10.5	14.1	31.	4.	82.767	9.098	4.4	8.	20.	30.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	10	65.	80.3	183.	16.	3018.011	54.936	18.3	44.25	111.5	181.7
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	10	0.18	0.228	0.56	0.005	0.042	0.204	0.005	0.031	0.423	0.547
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	3	2.	3.667	7.	2.	8.333	2.887	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	10	120.	172.	830.	5.	58678.889	242.237	5.	23.75	190.	769.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	10	35.	38.	80.	10.	484.444	22.01	11.	20.	52.5	78.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	10	345.	2551.	14000.	5.	23743582.222	4872.739	5.	76.25	3075.	13500.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	10	2.489	2.426	4.146	0.699	1.349	1.161	0.699	1.675	3.27	4.127
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			266.55								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	1 ##	2.699	2.699	2.699	2.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			500.								

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Annual Analysis for 1969 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	63.75	61.213	84.2	34.	400.09	20.002	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	8	5.5	6.813	15.	2.5	27.781	5.271	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	8	397.5	408.125	500.	370.	1770.982	42.083	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	11.1	10.688	14.	6.2	8.687	2.947	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	3	105.	110.333	131.	95.	345.333	18.583	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	3.9	4.413	8.9	2.1	5.841	2.417	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	8	8.35	8.35	8.8	7.9	0.131	0.363	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	8	8.347	8.229	8.8	7.9	0.148	0.385	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	8	0.004	0.006	0.013	0.002	0.	0.004	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	8	115.5	112.75	142.	83.	381.071	19.521	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	8	255.	266.5	333.	246.	785.714	28.031	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	8	14.5	18.75	39.	2.	233.643	15.285	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	148.	147.75	180.	116.	448.5	21.178	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	15.5	16.375	32.	9.	49.125	7.009	**	**	**	**

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Annual Analysis for 1969 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	8	64.5	61.875	72.	37.	122.982	11.09	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	8	0.235	0.476	1.28	0.08	0.182	0.427	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	8	4.5	4.75	7.	3.	1.643	1.282	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	8	125.	136.25	250.	50.	4312.5	65.67	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	8	35.	41.25	100.	20.	669.643	25.877	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	8	250.	6168.75	47000.	50.	272286383.929	16501.103	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	8	2.389	2.644	4.672	1.699	0.831	0.911	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			440.202								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	3 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	3 ##	1.699	1.699	1.699	1.699	0.	0.	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			50.								

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Annual Analysis for 1970 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	7	58.5	62.543	81.2	39.2	320.533	17.903	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7 ##	2.5	3.643	7.	2.5	3.893	1.973	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	7	360.	372.	560.	245.	9039.667	95.077	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	11.	11.014	13.5	8.7	3.335	1.826	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	5.9	5.671	10.4	1.8	12.716	3.566	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	7	8.2	8.3	8.8	8.1	0.07	0.265	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	7	8.2	8.244	8.8	8.1	0.074	0.271	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	7	0.006	0.006	0.008	0.002	0.	0.003	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	7	111.	116.143	150.	83.	773.143	27.805	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	7	228.	242.429	396.	169.	5190.952	72.048	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	7	15.	17.429	36.	3.	131.619	11.473	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	130.	150.857	296.	106.	4465.143	66.822	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	14.	16.	26.	7.	42.333	6.506	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	7	50.	56.143	120.	30.	884.81	29.746	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	5	0.2	0.188	0.28	0.06	0.008	0.09	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7	4.	3.571	5.	2.	1.619	1.272	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	7	140.	124.286	190.	70.	1995.238	44.668	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	7	30.	45.714	90.	10.	861.905	29.358	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	1200.	1107.143	2900.	50.	1208690.476	1099.405	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	3.079	2.67	3.462	1.699	0.543	0.737	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			467.383								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	7	30.	43.571	100.	5.	1055.952	32.495	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	7	1.477	1.5	2.	0.699	0.182	0.426	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			31.605								

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Annual Analysis for 1971 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	7	61.3	58.457	80.	32.3	258.53	16.079	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	1	2200.	2200.	2200.	2200.	0.	0.	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	6 ##	2.5	4.167	10.	2.5	9.167	3.028	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	6	312.5	324.5	420.	260.	4769.5	69.062	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	11.4	11.2	14.7	8.2	4.023	2.006	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	1.95	3.083	8.9	1.6	8.174	2.859	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	7	8.1	8.129	8.5	7.8	0.056	0.236	**	**	**	**

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Annual Analysis for 1971 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	7	8.1	8.076	8.5	7.8	0.059	0.243	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	7	0.008	0.008	0.016	0.003	0.	0.004	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	7	103.	109.429	130.	99.	194.286	13.939	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	7	216.	210.714	271.	171.	1495.571	38.673	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	7	11.	17.571	50.	6.	249.619	15.799	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	130.	131.429	156.	112.	266.286	16.318	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	14.	14.286	22.	9.	17.238	4.152	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	7	40.	37.429	66.	22.	236.952	15.393	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	6	0.1	0.113	0.17	0.09	0.001	0.031	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	6 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7	3.	2.357	5.	0.5	2.56	1.6	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	6	195.	243.333	550.	120.	24426.667	156.29	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	6	29.	34.667	74.	20.	389.867	19.745	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	6	30.	25.833	40.	5.	224.167	14.972	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	300.	1392.857	4600.	50.	3187857.143	1785.457	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	2.477	2.566	3.663	1.699	0.792	0.89	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			368.214								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	7 ##	50.	67.857	260.	5.	8407.143	91.69	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	7 ##	1.699	1.416	2.415	0.699	0.507	0.712	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			26.043								

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Annual Analysis for 1972 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	58.25	60.325	83.9	38.	285.474	16.896	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	5.	6.714	10.	5.	5.571	2.36	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	7	315.	322.857	370.	290.	1032.143	32.127	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	10.	10.75	15.5	9.	4.64	2.154	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	8	102.	104.875	116.	96.	83.268	9.125	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	2.05	2.338	4.2	1.	1.337	1.156	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	8	8.25	8.262	8.6	7.9	0.04	0.2	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	8	8.247	8.222	8.6	7.9	0.042	0.204	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	8	0.006	0.006	0.013	0.003	0.	0.003	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	8	119.	118.375	144.	81.	383.125	19.574	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	7	213.	229.714	297.	189.	1461.238	38.226	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	7	16.	24.571	73.	5.	561.619	23.699	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	167.	158.5	220.	96.	1496.857	38.689	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	12.	13.875	26.	8.	32.125	5.668	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	8	39.	43.5	65.	30.	158.	12.57	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	8	0.11	0.119	0.18	0.07	0.001	0.035	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	6 ##	4.5	3.75	5.	1.5	2.575	1.605	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	8 ##	0.5	1.125	3.	0.5	1.339	1.157	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	6	110.	151.667	410.	50.	17296.667	131.517	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	6 ##	15.	16.667	20.	15.	6.667	2.582	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	6	55.	55.	100.	20.	1110.	33.317	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	8	23500.	27911.25	69000.	20.	851252898.214	29176.239	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	8	4.224	3.717	4.839	1.301	1.673	1.293	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			5215.541								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	8	55.	65.625	180.	5.	3595.982	59.967	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	8	1.724	1.587	2.255	0.699	0.296	0.544	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			38.66								

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Annual Analysis for 1973 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	59.25	61.537	83.	40.	257.834	16.057	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	8	1955.	4083.625	9200.	812.	14880755.411	3857.558	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	7.	8.714	15.	5.	10.905	3.302	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	8	330.	342.25	600.	190.	19739.071	140.496	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	10.75	10.313	12.8	7.7	2.544	1.595	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	8	98.	102.6	123.6	91.2	124.617	11.163	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	2.6	2.863	6.2	1.5	2.208	1.486	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	8	8.4	8.338	8.8	7.8	0.157	0.396	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	8	8.389	8.186	8.8	7.8	0.183	0.428	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	8	0.004	0.007	0.016	0.002	0.	0.006	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	8	124.5	118.25	152.	83.	631.643	25.133	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	8	286.	276.125	357.	174.	4729.554	68.772	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	8	34.5	48.625	135.	10.	1877.411	43.329	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	178.	171.75	208.	130.	766.214	27.681	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	17.	19.5	41.	9.	111.714	10.569	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	8	49.	56.25	97.	20.	941.071	30.677	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	8	0.14	0.133	0.16	0.09	0.	0.021	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	8	165.	258.	810.	50.	69734.857	264.074	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	8 ##	19.	20.5	30.	15.	38.286	6.188	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	8	27.	30.625	60.	5.	336.268	18.338	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	1	440.	440.	440.	440.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	8	15500.	17950.625	56000.	5.	380942931.696	19517.759	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	8	4.188	3.608	4.748	0.699	1.75	1.323	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			4051.141								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	8	60.	345.	1150.	5.	206392.857	454.305	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	8	1.772	1.879	3.061	0.699	0.927	0.963	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			75.641								

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Annual Analysis for 1974 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	7	53.4	56.771	74.3	38.5	180.912	13.45	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	5	2420.	3180.	6400.	2040.	3324200.	1823.239	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	8.	8.857	15.	5.	9.476	3.078	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	7	350.	381.429	600.	250.	15380.952	124.02	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	10.9	10.457	12.7	7.5	4.086	2.021	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	7	93.4	97.986	115.	87.1	106.388	10.314	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	2.2	2.15	2.5	1.7	0.115	0.339	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	7	8.4	8.429	8.7	8.1	0.039	0.198	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	7	8.4	8.389	8.7	8.1	0.041	0.202	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	7	0.004	0.004	0.008	0.002	0.	0.002	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	7	123.	133.	181.	97.	823.667	28.7	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	7	241.	293.	409.	174.	9663.	98.301	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	7	29.	45.571	141.	12.	2032.286	45.081	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	3 ##	0.015	0.127	0.35	0.015	0.037	0.193	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	3	0.57	0.627	0.79	0.52	0.021	0.144	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	2	0.203	0.203	0.235	0.17	0.002	0.046	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	155.	166.	216.	130.	977.6	31.267	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	18.	20.429	32.	12.	56.619	7.525	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	7	41.	51.571	124.	28.	1159.619	34.053	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	7	0.11	0.113	0.15	0.08	0.	0.021	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	5 ##	1.	3.	10.	1.	15.5	3.937	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7 ##	0.5	0.857	3.	0.5	0.893	0.945	**	**	**	**

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Annual Analysis for 1974 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	4	85.	377.5	1320.	20.	396558.333	629.729	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	7 ##	10.	14.286	20.	10.	28.571	5.345	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	7	12.	26.	84.	2.	936.	30.594	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	4	100.	120.	240.	40.	7466.667	86.41	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	270.	1240.	4200.	20.	2955100.	1719.04	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	2.431	2.562	3.623	1.301	0.699	0.836	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			364.418								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	7	40.	159.286	510.	5.	54645.238	233.763	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	7	1.602	1.554	2.708	0.699	0.811	0.901	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			35.773								
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	3	13.	10.167	15.	2.5	45.083	6.714	**	**	**	**

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Annual Analysis for 1975 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	6	55.5	56.667	80.	40.	229.767	15.158	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	7	2730.	4781.429	11800.	1580.	15002447.619	3873.299	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	10.	8.071	10.	2.5	9.369	3.061	**	**	**	**
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	6	260.	279.167	400.	205.	5144.167	71.723	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	11.2	10.9	13.	8.6	3.223	1.795	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	6	95.	101.283	134.6	88.2	316.466	17.789	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	1.1	1.643	4.4	0.1	2.34	1.53	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	7	7.9	8.071	8.4	7.8	0.079	0.281	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	7	7.9	8.001	8.4	7.8	0.085	0.291	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	7	0.013	0.01	0.016	0.004	0.	0.005	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	7	118.	113.714	137.	85.	373.905	19.337	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	6	245.	265.167	477.	177.	11808.967	108.669	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	6	18.5	30.833	94.	2.	1274.967	35.707	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	7	0.08	0.124	0.28	0.04	0.009	0.093	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	7	0.52	0.436	0.67	0.16	0.037	0.193	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	7	0.8	0.82	1.05	0.52	0.033	0.181	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	7	0.122	0.127	0.23	0.043	0.006	0.076	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	132.	129.429	156.	96.	415.619	20.387	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	14.	13.714	18.	10.	11.571	3.402	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	7	26.	29.	41.	21.	55.667	7.461	**	**	**	**
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	7	0.1	0.096	0.12	0.08	0.	0.016	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	7	4.	5.143	12.	2.	14.476	3.805	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7 ##	0.5	1.143	5.	0.5	2.893	1.701	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	3	320.	346.667	600.	120.	58133.333	241.109	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	3 ##	10.	13.333	20.	10.	33.333	5.774	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	7	40.	81.714	310.	12.	11005.905	104.909	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	3	280.	206.667	300.	40.	20933.333	144.684	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	6	1100.	1451.667	3800.	10.	2425216.667	1557.311	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	6	2.801	2.647	3.58	1.	0.963	0.981	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			443.407								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	6	10.	33.333	120.	5.	2096.667	45.789	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	6	1.	1.196	2.079	0.699	0.321	0.566	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			15.704								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	4	184.	189.	245.	143.	2367.333	48.655	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	7	9.4	13.671	50.	2.1	297.862	17.259	**	**	**	**

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Annual Analysis for 1976 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	11	54.	59.727	83.5	38.	296.768	17.227	38.4	42.	79.	82.8
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	10	1822.5	2156.2	4870.	707.	1902204.622	1379.204	717.7	853.	2970.	4773.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	10.	10.455	15.	5.	12.273	3.503	5.	10.	15.	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	10	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	350.	359.091	450.	280.	3609.091	60.076	284.	300.	420.	448.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	10.2	10.073	13.1	7.5	3.974	1.994	7.54	8.1	12.	13.02
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	11	95.4	97.2	114.5	83.6	75.78	8.705	84.94	93.9	98.1	113.82
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	10	1.9	2.31	4.4	0.4	1.517	1.231	0.49	1.45	3.475	4.33
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	2	8.5	8.5	9.3	7.7	1.28	1.131	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	2	7.99	7.99	9.3	7.7	1.8	1.342	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	2	0.01	0.01	0.02	0.001	0.	0.014	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	11	8.3	8.327	8.7	8.	0.064	0.253	8.	8.1	8.6	8.68
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	11	8.3	8.263	8.7	8.	0.069	0.262	8.	8.1	8.6	8.68
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	11	0.005	0.005	0.01	0.002	0.	0.003	0.002	0.003	0.008	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	11	113.	120.727	145.	109.	155.618	12.475	109.2	110.	130.	143.4
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	11	250.	261.727	401.	205.	3306.018	57.498	206.4	218.	290.	381.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	11	24.	31.727	69.	1.	582.618	24.137	2.2	10.	55.	69.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	11	0.06	1.606	17.	0.02	26.067	5.106	0.022	0.04	0.12	13.626
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	11	0.5	0.565	1.04	0.19	0.066	0.258	0.212	0.41	0.8	1.012
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	11	0.48	0.643	1.65	0.02	0.352	0.593	0.02	0.03	1.18	1.58
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	11	0.088	0.099	0.169	0.035	0.002	0.041	0.041	0.073	0.136	0.167
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	8	19.	20.75	34.	9.	76.786	8.763	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	156.	155.273	188.	126.	386.618	19.663	126.4	144.	176.	186.
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	11	15.	17.818	34.	10.	46.164	6.794	10.6	13.	21.	32.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	11	43.	52.455	118.	31.	727.873	26.979	31.	34.	62.	111.6
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	9	0.11	0.112	0.15	0.07	0.001	0.028	0.07	0.09	0.14	0.15
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	11 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	1.045	4.	0.5	1.523	1.234	0.5	0.5	0.5	3.8
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	5	480.	832.	2380.	20.	893320.	945.156	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	11 ##	50.	35.455	50.	10.	287.273	16.949	12.	20.	50.	50.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	11	60.	56.909	92.	6.	817.891	28.599	8.4	28.	80.	91.2
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	5	220.	232.	480.	20.	26920.	164.073	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	140.	422.727	1500.	30.	286421.818	535.184	34.	100.	1000.	1440.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	2.146	2.299	3.176	1.477	0.314	0.56	1.521	2.	3.	3.157
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			199.255								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11 ##	30.	45.	170.	5.	2955.	54.36	5.	5.	50.	160.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11 ##	1.477	1.307	2.23	0.699	0.379	0.615	0.699	0.699	1.699	2.2
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			20.283								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	11	212.	220.273	303.	159.	1737.018	41.678	163.	197.	254.	295.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	3.4	5.918	17.	2.	25.678	5.067	2.	3.	8.	16.4

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Annual Analysis for 1977 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	11	64.	59.455	81.5	34.	285.823	16.906	34.3	44.	76.	81.4
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	9	1430.	1543.333	4290.	401.	1591049.25	1261.368	401.	513.5	2270.	4290.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	5.	6.818	10.	5.	6.364	2.523	5.	5.	10.	10.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	11	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	440.	470.	700.	180.	21240.	145.739	214.	400.	600.	690.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	9.8	9.782	12.5	7.2	2.896	1.702	7.34	8.2	11.	12.42
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	11	98.8	96.173	123.1	58.7	379.744	19.487	60.24	85.2	112.7	121.12
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	3.6	3.05	4.9	0.3	2.699	1.643	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	6	25.5	22.167	29.	11.	53.767	7.333	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	11	8.95	8.891	9.3	7.85	0.198	0.445	7.99	8.6	9.3	9.3
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	11	8.95	8.617	9.3	7.85	0.281	0.53	7.99	8.6	9.3	9.3

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Annual Analysis for 1977 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	11	0.001	0.002	0.014	0.001	0.	0.004	0.001	0.001	0.003	0.012
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	11	8.5	8.536	8.9	8.1	0.073	0.269	8.14	8.3	8.9	8.9
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	11	8.5	8.465	8.9	8.1	0.078	0.28	8.14	8.3	8.9	8.9
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	11	0.003	0.003	0.008	0.001	0.	0.002	0.001	0.001	0.005	0.007
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	11	140.	137.091	160.	82.	428.291	20.695	90.8	134.	153.	158.8
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	11	374.	385.091	608.	163.	16411.091	128.106	182.6	286.	494.	588.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	11	19.	18.091	40.	1.	164.691	12.833	1.2	5.	25.	39.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	10	0.065	0.072	0.16	0.04	0.001	0.036	0.04	0.048	0.083	0.153
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	10	0.535	0.552	0.95	0.21	0.06	0.244	0.221	0.343	0.808	0.938
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	10	0.58	0.666	1.64	0.01	0.421	0.649	0.01	0.018	1.33	1.615
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	10	0.245	0.242	0.37	0.078	0.011	0.107	0.081	0.151	0.364	0.37
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	9	29.	25.889	39.	11.	100.861	10.043	11.	15.5	34.	39.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	208.	198.2	220.	104.	1163.956	34.117	113.2	199.	218.	219.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	11	30.	29.	50.	10.	148.	12.166	11.2	18.	38.	48.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	11	135.	132.364	230.	55.	3407.455	58.373	55.6	85.	193.	224.
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	10	0.115	0.114	0.16	0.07	0.001	0.032	0.071	0.08	0.14	0.158
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	11 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	5	200.	226.	440.	110.	16080.	126.807	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	10 ##	15.	20.	50.	10.	177.778	13.333	10.	10.	30.	48.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	11	44.	56.182	108.	16.	1189.964	34.496	16.	26.	84.	106.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	3	140.	246.667	480.	120.	40933.333	202.32	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	9	60.	718.333	4400.	5.	2029225.	1424.509	5.	30.	840.	4400.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	9	1.778	2.095	3.643	0.699	0.86	0.927	0.699	1.477	2.916	3.643
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			124.35								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	30.	69.091	280.	5.	8479.091	92.082	5.	5.	130.	262.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	1.477	1.424	2.447	0.699	0.45	0.671	0.699	0.699	2.114	2.413
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			26.575								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	11	354.	344.091	546.	133.	13391.291	115.721	150.	263.	437.	526.4
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	10.5	9.5	16.	4.	17.833	4.223	4.1	5.	12.5	15.8

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Annual Analysis for 1978 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	9	12.5	13.489	26.	0.4	99.764	9.988	0.4	4.25	25.	26.
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	12	54.5	57.542	80.	32.6	340.459	18.452	32.72	37.85	77.45	79.64
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	9	2670.	2871.111	5580.	880.	1797986.111	1340.89	880.	2075.	3580.	5580.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	12	5.	5.417	10.	5.	2.083	1.443	5.	5.	5.	8.5
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	320.	328.182	450.	200.	8276.364	90.975	204.	230.	420.	450.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	12	10.15	10.658	14.8	7.	5.448	2.334	7.24	9.4	12.425	14.59
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	12	108.95	101.442	123.4	53.8	465.508	21.576	60.58	86.125	119.275	122.59
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	9	2.2	2.061	4.1	0.05	1.277	1.13	0.05	1.4	2.55	4.1
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	12	14.	14.875	32.	0.5	88.278	9.396	1.55	8.	23.75	29.6
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	8.95	8.763	9.6	7.65	0.369	0.607	7.695	8.35	9.2	9.48
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	8.925	8.346	9.6	7.65	0.558	0.747	7.695	8.35	9.2	9.48
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.001	0.005	0.022	0.	0.	0.007	0.	0.001	0.005	0.02
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.5	8.392	8.7	8.1	0.055	0.235	8.1	8.1	8.6	8.67
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.5	8.333	8.7	8.1	0.059	0.243	8.1	8.1	8.6	8.67
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.003	0.005	0.008	0.002	0.	0.003	0.002	0.003	0.008	0.008
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	115.	113.75	171.	13.	1808.568	42.527	31.9	96.75	148.25	169.2
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	9	227.	232.222	335.	178.	2229.944	47.222	178.	195.	251.	335.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	12.5	14.083	42.	2.	155.174	12.457	2.3	3.5	18.	38.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.065	0.084	0.23	0.02	0.005	0.073	0.02	0.023	0.108	0.227
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.395	0.423	0.85	0.16	0.052	0.228	0.16	0.233	0.6	0.826

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Annual Analysis for 1978 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.115	1.354	4.2	0.52	0.985	0.993	0.574	0.755	1.48	3.516
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.165	0.171	0.323	0.094	0.005	0.07	0.095	0.109	0.202	0.304
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	11	17.	17.364	32.	6.	86.655	9.309	6.2	8.	24.	32.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	201.	187.8	246.	100.	2338.178	48.355	104.2	142.	229.	244.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	13.	16.	29.	6.	59.818	7.734	7.2	10.25	23.75	28.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	56.	66.333	120.	26.	1035.152	32.174	27.8	39.5	102.25	115.2
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	11	0.12	0.107	0.15	0.07	0.001	0.025	0.072	0.08	0.12	0.146
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	12 ##	0.5	2.125	11.	0.5	10.824	3.29	0.5	0.5	3.875	9.2
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	6	280.	366.667	780.	200.	46666.667	216.025	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12	20.	18.333	40.	10.	87.879	9.374	10.	10.	20.	37.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	10	40.	37.4	56.	18.	207.156	14.393	18.2	23.	50.	55.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	4	300.	310.	580.	60.	45200.	212.603	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	12	175.	1308.917	11600.	5.	10751370.447	3278.928	6.5	40.	940.	8600.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	12	2.199	2.219	4.064	0.699	0.941	0.97	0.789	1.602	2.947	3.806
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			165.573								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12 ##	5.	17.917	50.	5.	356.629	18.885	5.	5.	37.5	50.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12 ##	0.699	1.031	1.699	0.699	0.199	0.446	0.699	0.699	1.571	1.699
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.736								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	211.5	235.583	355.	148.	5962.083	77.215	148.3	169.75	328.	349.9
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	12	7.5	9.667	29.	4.	49.697	7.05	4.	4.5	13.25	24.5

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Annual Analysis for 1979 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	11	15.	15.818	29.	1.	80.764	8.987	2.	9.	22.	29.
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	11	59.	59.764	84.2	33.8	280.735	16.755	35.6	44.	71.6	84.2
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	9	2760.	5482.667	20200.	964.	42903349.	6550.065	964.	1430.	8420.	20200.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	12	5.	7.708	25.	2.5	35.748	5.979	3.25	5.	10.	20.5
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	245.	275.	400.	170.	5263.636	72.551	185.	220.	345.	391.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	10.4	10.945	15.5	8.	5.955	2.44	8.1	9.	11.9	15.4
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	11	102.9	105.791	122.1	87.3	166.045	12.886	87.6	96.2	120.2	122.1
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	1.1	1.214	2.8	0.2	1.105	1.051	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	12	15.	19.	44.	4.	192.545	13.876	4.9	8.	30.25	43.7
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	9.3	9.125	9.4	8.	0.164	0.405	8.21	9.05	9.3	9.4
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	9.3	8.838	9.4	8.	0.254	0.504	8.21	9.05	9.3	9.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.001	0.001	0.01	0.	0.	0.003	0.	0.001	0.001	0.008
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.15	8.217	8.8	7.6	0.14	0.374	7.66	8.	8.55	8.8
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.147	8.083	8.8	7.6	0.159	0.399	7.66	8.	8.55	8.8
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.007	0.008	0.025	0.002	0.	0.007	0.002	0.003	0.01	0.022
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	104.5	106.333	144.	74.	348.424	18.666	78.8	93.5	116.75	140.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	24.5	80.25	563.	1.	24356.568	156.066	2.8	17.5	76.75	431.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.08	0.081	0.12	0.04	0.001	0.025	0.043	0.063	0.098	0.12
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.325	0.382	0.97	0.22	0.041	0.202	0.223	0.258	0.443	0.814
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	0.97	1.016	1.58	0.15	0.156	0.396	0.315	0.78	1.388	1.553
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.125	0.143	0.301	0.061	0.005	0.074	0.062	0.084	0.178	0.285
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	6	17.5	18.833	31.	13.	42.167	6.494	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	152.	157.091	196.	120.	713.891	26.719	122.4	132.	186.	194.
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	10.	12.333	20.	7.	22.061	4.697	7.	8.25	16.75	19.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	31.5	41.333	68.	22.	266.97	16.339	24.1	29.	60.25	65.9
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.125	0.126	0.2	0.07	0.001	0.038	0.073	0.093	0.14	0.194
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11	1.	1.636	4.	0.5	1.755	1.325	0.5	0.5	3.	3.8
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	4	740.	2350.	7800.	120.	13480933.333	3671.639	**	**	**	**

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Annual Analysis for 1979 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	15.	20.	40.	10.	145.455	12.06	10.	10.	30.	40.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	4	53.	115.5	344.	12.	23691.667	153.921	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	2	520.	520.	840.	200.	204800.	452.548	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	12	4000.	11475.	74000.	100.	430062045.455	20737.937	100.	725.	14750.	57500.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	12	3.602	3.444	4.869	2.	0.791	0.89	2.	2.811	4.169	4.692
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2778.435								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	75.	239.167	980.	5.	94585.606	307.548	6.5	12.5	452.5	861.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.849	1.895	2.991	0.699	0.608	0.78	0.789	1.075	2.647	2.924
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			78.593								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	175.5	187.25	243.	134.	1993.295	44.646	134.6	143.	237.75	242.4
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	15.5	29.3	140.	8.	1600.9	40.011	8.1	9.	30.25	129.4

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Annual Analysis for 1980 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	16.	14.933	30.	0.	109.617	10.47	0.6	4.05	24.	29.4
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	10	60.8	57.56	82.4	32.	328.896	18.135	32.36	36.95	75.2	81.68
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	14	983.5	1927.	5787.	540.	2857848.308	1690.517	554.5	651.	2870.75	5329.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	12	1615.	2191.833	5680.	561.	2965137.788	1721.958	564.6	720.25	3105.	5410.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	8	375.	421.25	800.	240.	31898.214	178.601	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	320.	322.727	500.	200.	7781.818	88.215	210.	250.	350.	488.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	11.1	11.764	17.5	7.9	9.657	3.107	8.1	9.	14.6	17.08
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	10	106.2	107.06	119.7	92.6	90.349	9.505	92.78	99.575	116.625	119.61
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	9	1.8	2.322	4.9	0.7	2.209	1.486	0.7	1.2	3.55	4.9
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	10	10.	14.9	39.	4.	152.1	12.333	4.	4.	23.	38.3
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	10	8.6	8.72	9.4	7.9	0.211	0.459	7.95	8.475	9.225	9.39
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	10	8.6	8.512	9.4	7.9	0.259	0.509	7.95	8.475	9.225	9.39
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	10	0.003	0.003	0.013	0.	0.	0.004	0.	0.001	0.003	0.012
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.45	8.383	8.7	8.	0.063	0.252	8.03	8.125	8.6	8.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.447	8.317	8.7	8.	0.068	0.261	8.03	8.125	8.6	8.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.004	0.005	0.01	0.002	0.	0.003	0.002	0.003	0.008	0.009
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	128.5	134.	202.	78.	1267.091	35.596	83.1	109.5	160.5	194.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	12.5	25.458	93.	0.5	832.521	28.853	0.95	3.25	46.	83.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.08	0.075	0.12	0.03	0.001	0.026	0.03	0.063	0.09	0.114
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.37	0.403	0.72	0.16	0.034	0.184	0.175	0.225	0.563	0.705
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	0.98	0.905	1.75	0.2	0.25	0.5	0.206	0.33	1.275	1.627
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.108	0.124	0.2	0.087	0.002	0.04	0.089	0.097	0.148	0.199
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	4	7.5	8.5	14.	5.	15.	3.873	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	172.	174.833	228.	104.	1257.788	35.465	116.	148.	207.5	224.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	16.5	16.083	25.	6.	35.72	5.977	7.2	11.	20.	25.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	10	61.5	61.9	116.	25.	870.1	29.497	25.3	37.	86.75	113.6
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	9	0.12	0.11	0.14	0.08	0.	0.02	0.08	0.09	0.12	0.14
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	2.273	9.	0.5	6.868	2.621	0.5	0.5	3.	8.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	4	170.	230.	460.	120.	24133.333	155.349	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	10.	10.833	20.	10.	8.333	2.887	10.	10.	10.	17.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	4	29.5	28.75	46.	10.	236.917	15.392	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	2	100.	100.	120.	80.	800.	28.284	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	12	350.	701.667	3000.	20.	842942.424	918.119	44.	100.	950.	2700.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	12	2.54	2.48	3.477	1.301	0.408	0.639	1.511	2.	2.976	3.424
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			302.02								

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Annual Analysis for 1980 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11 ##	5.	65.	430.	5.	16370.	127.945	5.	5.	110.	366.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11 ##	0.699	1.19	2.633	0.699	0.53	0.728	0.699	0.699	2.041	2.515
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			15.476								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	242.5	236.833	343.	115.	4664.152	68.295	126.4	184.25	287.5	336.7
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	7.	10.091	30.	3.	77.091	8.78	3.	3.	12.	28.6

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Annual Analysis for 1981 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	15.5	14.1	25.5	0.	88.225	9.393	0.	4.5	23.	25.35
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	15	928.	1540.867	4189.	434.	1774836.267	1332.23	453.2	564.	2823.	4189.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	12	761.	1261.417	4253.	224.	1470202.811	1212.519	273.2	464.75	1696.	3858.5
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	12	10.	10.417	20.	5.	24.811	4.981	5.	5.	15.	18.5
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	11	390.	402.727	720.	90.	30841.818	175.618	120.	250.	520.	692.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	420.	397.5	500.	200.	12256.818	110.711	212.	282.5	500.	500.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	6	9.35	9.883	12.6	7.1	4.382	2.093	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	5	8.4	10.62	17.7	7.4	18.497	4.301	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	4	93.	93.25	99.	88.	20.917	4.573	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	0.8	1.036	2.6	0.05	0.759	0.871	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	11	12.	14.	28.	4.	59.	7.681	4.8	8.	16.	27.8
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	11	8.	8.1	9.5	7.4	0.37	0.608	7.4	7.7	8.5	9.34
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	11	8.	7.844	9.5	7.4	0.442	0.665	7.4	7.7	8.5	9.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	11	0.01	0.014	0.04	0.	0.	0.014	0.001	0.003	0.02	0.04
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	11	8.3	8.309	9.2	7.9	0.129	0.359	7.9	8.1	8.4	9.08
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	11	8.3	8.21	9.2	7.9	0.14	0.374	7.9	8.1	8.4	9.08
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	11	0.005	0.006	0.013	0.001	0.	0.004	0.001	0.004	0.008	0.013
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	134.5	132.583	188.	78.	1031.356	32.115	83.1	103.75	149.25	184.7
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	19.5	27.833	90.	3.	685.061	26.174	3.3	8.	47.25	78.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.065	0.06	0.08	0.01	0.	0.02	0.019	0.05	0.078	0.08
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.56	0.573	0.9	0.22	0.045	0.212	0.259	0.398	0.745	0.894
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.245	1.093	1.97	0.23	0.401	0.633	0.236	0.433	1.668	1.91
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.207	0.206	0.372	0.102	0.005	0.069	0.116	0.15	0.238	0.334
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	4	8.5	9.5	14.	7.	9.667	3.109	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	183.	176.	250.	80.	1860.364	43.132	93.2	155.5	201.5	237.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	22.	20.75	30.	10.	48.932	6.995	10.3	13.25	26.75	29.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	107.	94.167	150.	38.	1622.697	40.283	38.6	47.5	117.5	149.4
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.125	0.119	0.16	0.09	0.001	0.025	0.09	0.093	0.138	0.157
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.333	6.	2.	1.333	1.155	2.	2.	2.	4.8
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	12 ##	0.5	1.208	4.	0.5	1.703	1.305	0.5	0.5	2.375	3.7
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	4	260.	300.	600.	80.	48266.667	219.697	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	10.	11.667	20.	10.	15.152	3.892	10.	10.	10.	20.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	4	32.	33.	52.	16.	241.333	15.535	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	2	220.	220.	340.	100.	28800.	169.706	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	100.	340.	1000.	10.	204633.333	452.364	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	2.	2.111	3.	1.	0.502	0.708	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			129.171								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	8 ##	65.	140.625	790.	5.	70424.554	265.376	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	8 ##	1.801	1.569	2.898	0.699	0.643	0.802	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			37.056								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	323.5	298.75	407.	150.	7336.568	85.654	159.9	205.	368.5	399.5
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	10.	14.182	48.	2.	163.764	12.797	2.2	7.	17.	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

Annual Analysis for 1982 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	16.25	14.45	25.3	0.	79.592	8.921	0.63	5.875	22.775	24.94
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	19	1678.	1950.526	4913.	676.	1254719.374	1120.143	719.	775.	2974.	3265.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	11	1940.	2164.364	4020.	544.	1221267.255	1105.11	577.	1440.	3180.	3875.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	12	7.5	9.167	20.	5.	26.515	5.149	5.	5.	13.75	18.5
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	11	314.	347.	507.	232.	7355.2	85.762	240.6	281.	433.	497.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	290.	308.333	400.	160.	6451.515	80.321	184.	252.5	400.	400.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	9	7.7	7.233	10.4	1.3	6.935	2.633	1.3	6.25	8.95	10.4
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	2	11.5	11.5	11.6	11.4	0.02	0.141	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	8	86.	84.75	100.	67.	108.786	10.43	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	11	1.8	1.909	3.1	1.	0.561	0.749	1.02	1.2	2.8	3.08
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	12	8.	10.667	26.	4.	34.242	5.852	5.2	8.	14.	23.
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.8	7.758	8.4	6.8	0.152	0.39	7.01	7.625	7.9	8.34
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.8	7.55	8.4	6.8	0.199	0.446	7.01	7.625	7.9	8.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.016	0.028	0.158	0.004	0.002	0.042	0.005	0.013	0.024	0.12
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.1	8.058	8.4	7.8	0.028	0.168	7.83	7.9	8.175	8.34
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.1	8.03	8.4	7.8	0.029	0.17	7.83	7.9	8.175	8.34
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.008	0.009	0.016	0.004	0.	0.003	0.005	0.007	0.013	0.015
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	112.5	118.083	165.	75.	883.902	29.73	78.9	90.5	147.75	162.3
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	16.5	17.667	34.	2.	138.606	11.773	3.2	7.	30.75	34.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.07	0.082	0.22	0.04	0.002	0.049	0.043	0.053	0.093	0.19
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.335	0.385	0.86	0.14	0.036	0.19	0.143	0.3	0.485	0.755
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.065	1.107	1.88	0.28	0.272	0.522	0.364	0.627	1.6	1.835
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.127	0.147	0.32	0.068	0.006	0.078	0.07	0.079	0.214	0.295
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	4	5.	4.5	6.	2.	3.	1.732	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	165.	163.	204.	124.	730.545	27.029	124.	134.	187.5	200.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	18.5	17.583	24.	6.	38.447	6.201	7.5	12.25	23.75	24.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	46.	49.833	80.	28.	366.515	19.145	28.3	34.25	68.	80.
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.11	0.105	0.14	0.06	0.001	0.026	0.063	0.09	0.128	0.14
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	12 ##	0.5	1.5	4.	0.5	2.273	1.508	0.5	0.5	3.	4.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	4	300.	305.	500.	120.	24366.667	156.098	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	4	34.	66.	180.	16.	5914.667	76.907	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	2	270.	270.	420.	120.	45000.	212.132	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	10	1000.	8506.	68000.	100.	442510137.778	21035.925	110.	425.	4475.	62000.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	10	3.	3.154	4.833	2.	0.653	0.808	2.03	2.599	3.615	4.74
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1424.759								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	10	120.	179.	700.	20.	41010.	202.509	21.	45.	242.5	655.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	10	2.054	2.029	2.845	1.301	0.228	0.478	1.319	1.644	2.385	2.8
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			106.826								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	242.5	226.	298.	140.	3420.727	58.487	144.2	167.	279.5	293.8
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	10.	9.818	15.	3.	22.764	4.771	3.	4.	15.	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

Annual Analysis for 1983 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	11	18.3	16.4	30.9	2.6	108.37	10.41	2.72	5.6	27.6	30.5
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	16	1321.	4001.375	14567.	655.	21809432.517	4670.057	655.	753.25	5124.	14567.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	12	1390.	3619.833	15300.	632.	18913501.97	4348.966	635.3	712.25	5122.5	13056.
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	10.	9.545	15.	5.	12.273	3.503	5.	5.	10.	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	11	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.

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

Annual Analysis for 1983 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	12	346.5	354.	506.	179.	9510.	97.519	195.2	286.75	420.75	503.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	300.	314.167	500.	150.	11099.242	105.353	165.	235.	400.	482.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	11	9.8	9.673	12.3	5.4	4.91	2.216	5.8	8.1	11.9	12.28
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	1	14.6	14.6	14.6	14.6	0.	0.	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	8	99.	96.75	108.	73.	120.214	10.964	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	11	3.	2.782	5.2	0.7	1.858	1.363	0.8	1.4	3.8	4.92
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.7	7.583	8.5	6.4	0.343	0.586	6.55	7.2	8.025	8.41
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.7	7.192	8.5	6.4	0.51	0.714	6.55	7.2	8.025	8.41
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.02	0.064	0.398	0.003	0.012	0.111	0.004	0.01	0.063	0.316
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.15	8.158	8.7	7.7	0.092	0.303	7.73	7.875	8.425	8.64
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.147	8.067	8.7	7.7	0.101	0.317	7.73	7.875	8.425	8.64
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.007	0.009	0.02	0.002	0.	0.006	0.002	0.004	0.014	0.019
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	122.	115.167	151.	70.	869.606	29.489	72.4	83.5	145.5	150.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	14.	61.583	549.	0.5	23881.856	154.538	0.5	4.	35.75	402.9
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.105	0.097	0.17	0.03	0.002	0.044	0.033	0.063	0.125	0.167
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	11	0.4	0.439	0.88	0.2	0.037	0.191	0.212	0.26	0.56	0.824
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.045	0.994	1.65	0.35	0.127	0.356	0.395	0.773	1.245	1.545
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.107	0.104	0.225	0.028	0.003	0.054	0.031	0.058	0.133	0.202
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	10	5.	5.3	7.	4.	1.789	1.337	4.	4.	7.	7.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	135.	133.5	194.	20.	2087.364	45.688	45.8	113.	164.	190.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	12.	14.75	28.	5.	45.295	6.73	6.2	10.25	19.5	26.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	37.5	39.917	77.	18.	298.447	17.276	18.9	25.25	51.75	71.
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.12	0.138	0.4	0.08	0.008	0.087	0.08	0.093	0.138	0.334
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	9 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	9 ##	0.5	1.389	5.	0.5	3.174	1.781	0.5	0.5	2.25	5.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	4	350.	500.	1180.	120.	222666.667	471.876	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	4	25.	31.5	60.	16.	395.667	19.891	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	2	260.	260.	280.	240.	800.	28.284	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	900.	1422.727	9000.	50.	6609681.818	2570.93	60.	100.	1000.	7560.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	2.954	2.715	3.954	1.699	0.435	0.66	1.759	2.	3.	3.814
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			518.553								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	45.	312.917	2680.	5.	573011.174	756.975	6.5	20.	250.	2005.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.651	1.789	3.428	0.699	0.577	0.76	0.789	1.301	2.358	3.19
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			61.459								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	11	198.	210.273	306.	137.	3884.818	62.328	137.6	144.	268.	302.2
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	8.	18.727	102.	3.	845.418	29.076	3.2	6.	18.	88.6

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Annual Analysis for 1984 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	7	14.6	13.957	27.5	1.1	91.693	9.576	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	14	1813.5	4385.214	13000.	830.	18783186.797	4333.957	922.5	1416.5	7668.	12879.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	6	1685.	3125.833	8850.	835.	9592684.167	3097.206	**	**	**	**
00080p	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	9	10.	8.889	15.	5.	17.361	4.167	5.	5.	12.5	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	9	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	7	320.	317.143	425.	203.	5649.476	75.163	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	350.	343.636	440.	200.	7025.455	83.818	210.	250.	420.	436.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	7	9.8	10.986	14.5	8.4	6.158	2.482	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	7	100.	108.	166.	82.	786.	28.036	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	9	1.6	1.811	4.	0.3	1.291	1.136	0.3	1.	2.7	4.
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	2	6.	6.	6.	6.	0.	0.	**	**	**	**

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Annual Analysis for 1984 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	7	8.1	8.114	8.5	7.9	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	7	8.1	8.075	8.5	7.9	0.047	0.216	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	7	0.008	0.008	0.013	0.003	0.	0.004	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	11	8.1	8.036	8.5	7.6	0.077	0.277	7.6	7.8	8.2	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	11	8.1	7.954	8.5	7.6	0.084	0.29	7.6	7.8	8.2	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	11	0.008	0.011	0.025	0.003	0.	0.008	0.004	0.006	0.016	0.025
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	11	133.	131.182	178.	79.	974.964	31.224	81.8	107.	151.	176.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	11	11.	17.	52.	2.	327.2	18.089	2.	4.	22.	51.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	9	0.05	0.058	0.09	0.04	0.	0.019	0.04	0.04	0.075	0.09
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	11	0.4	0.419	0.89	0.12	0.038	0.196	0.144	0.3	0.5	0.816
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	11	1.33	1.204	2.34	0.2	0.341	0.584	0.238	0.94	1.52	2.188
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	11	0.09	0.102	0.2	0.009	0.003	0.056	0.015	0.058	0.15	0.191
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	9	4.	3.778	6.	2.	1.444	1.202	2.	3.	4.5	6.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	9	106.	96.7	208.	0.3	4615.76	67.939	0.3	42.	153.	208.
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	9	12.	15.667	26.	9.	39.	6.245	9.	10.5	21.	26.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	11	43.	46.182	83.	14.	535.364	23.138	15.4	29.	68.	82.4
00951p	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	9	0.18	2.788	14.	0.07	28.28	5.318	0.07	0.145	5.1	14.
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	9 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	9 ##	0.5	1.444	4.	0.5	2.09	1.446	0.5	0.5	3.	4.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	5	140.	164.8	280.	80.	5515.2	74.264	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	9 ##	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	5	18.	20.2	28.	12.	40.2	6.34	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	4	162.	159.	200.	112.	1518.667	38.97	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	1200.	7500.	34000.	600.	145823333.333	12075.733	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	3.079	3.445	4.531	2.778	0.418	0.647	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2788.85								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	9	50.	101.111	240.	10.	9286.111	96.364	10.	30.	220.	240.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	9	1.699	1.79	2.38	1.	0.238	0.488	1.	1.452	2.341	2.38
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			61.67								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	9	218.	225.444	308.	137.	3916.028	62.578	137.	172.	282.5	308.
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	8	9.	11.5	30.	1.	110.857	10.529	**	**	**	**

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Annual Analysis for 1985 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	6	25.1	21.883	30.	5.5	80.33	8.963	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	9	1105.	1439.	3607.	499.	1262503.25	1123.612	499.	558.	2225.5	3607.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	8	1285.	1575.25	3590.	448.	1381079.929	1175.194	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	6	360.	347.833	451.	245.	6095.367	78.073	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	8	344.	352.25	500.	260.	6914.786	83.155	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	6	7.9	8.05	9.4	6.8	1.255	1.12	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	6	90.5	92.333	105.	77.	101.467	10.073	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	8	12.	12.	16.	6.	10.286	3.207	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	6	8.3	8.3	8.7	7.8	0.096	0.31	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	6	8.289	8.203	8.7	7.8	0.107	0.328	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	6	0.005	0.006	0.016	0.002	0.	0.005	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	8	8.2	8.05	8.6	7.	0.3	0.548	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	8	8.189	7.688	8.6	7.	0.45	0.671	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	8	0.006	0.021	0.1	0.003	0.001	0.033	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	8	131.	152.25	252.	106.	2843.643	53.326	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	7	7.	8.929	22.	0.5	43.369	6.586	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	8	0.47	0.52	0.86	0.29	0.035	0.187	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	8	0.72	0.771	1.68	0.08	0.304	0.551	**	**	**	**

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Annual Analysis for 1985 - Station HAFE0052

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00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	8	0.153	0.328	1.5	0.09	0.229	0.479	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	8	50.	54.75	96.	31.	472.214	21.73	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	8	218.	271.25	800.	60.	57369.071	239.518	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	8	21.5	23.625	40.	10.	114.554	10.703	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	8	172.	165.	288.	48.	6993.143	83.625	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2 ##	17.5	17.5	30.	5.	312.5	17.678	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	2 ##	1.088	1.088	1.477	0.699	0.303	0.55	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			12.247								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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Annual Analysis for 1986 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	15.45	15.642	25.	3.	58.534	7.651	3.99	9.025	23.3	25.
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	16	1100.	1242.75	3205.	415.	741329.533	861.005	419.2	454.5	1851.	2691.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	13	878.	1323.615	3260.	417.	853970.09	924.105	431.4	485.5	2180.	2940.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	11	403.	439.818	684.	276.	16082.164	126.815	284.4	330.	511.	667.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	405.	417.083	650.	245.	15647.538	125.09	255.5	312.5	490.	635.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	12	9.1	8.925	11.9	6.4	3.722	1.929	6.4	7.1	10.725	11.66
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	12	88.5	87.75	116.	71.	129.114	11.363	72.5	79.	91.	109.4
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	12	9.	9.417	20.	1.	27.72	5.265	1.9	5.	12.	18.8
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	10	8.25	8.28	8.7	7.9	0.08	0.282	7.9	8.05	8.6	8.69
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	10	8.247	8.202	8.7	7.9	0.086	0.294	7.9	8.05	8.6	8.69
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	10	0.006	0.006	0.013	0.002	0.	0.004	0.002	0.003	0.009	0.013
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.2	8.217	8.6	7.9	0.032	0.18	7.93	8.125	8.3	8.54
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.2	8.184	8.6	7.9	0.034	0.183	7.93	8.125	8.3	8.54
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.006	0.007	0.013	0.003	0.	0.003	0.003	0.005	0.008	0.012
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	137.	131.833	154.	102.	261.424	16.169	106.5	118.	146.75	152.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	11	10.	10.409	30.	0.5	81.641	9.036	0.6	2.	16.	28.2
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	11	0.55	0.55	0.97	0.14	0.064	0.253	0.172	0.32	0.81	0.948
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	0.85	0.93	1.99	0.09	0.316	0.562	0.159	0.418	1.345	1.855
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.096	0.119	0.36	0.025	0.009	0.095	0.027	0.036	0.16	0.307
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	64.5	66.25	135.	24.	1105.114	33.243	26.7	36.5	92.	124.8
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	12	286.	341.	1136.	80.	73949.455	271.936	98.	186.	395.	916.4
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	12	32.	48.583	161.	10.	1972.083	44.408	10.	13.25	78.25	137.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	12	152.	209.	676.	80.	26359.636	162.357	83.6	119.	263.	564.4
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	30.	55.	340.	5.	8313.636	91.179	5.	20.	50.	253.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.477	1.457	2.531	0.699	0.234	0.484	0.699	1.301	1.699	2.282
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			28.651								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

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Annual Analysis for 1987 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	10	10.1	12.69	27.9	3.1	75.843	8.709	3.15	5.7	21.3	27.63
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	17	1497.	2241.176	9735.	560.	5208910.779	2282.304	621.6	883.5	3074.5	5330.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	10	1655.	2116.3	4300.	645.	1802401.344	1342.535	649.3	1087.	3462.5	4292.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	9	388.	426.333	550.	251.	10355.	101.76	251.	360.5	524.5	550.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	350.	356.667	460.	240.	4569.697	67.6	255.	310.	427.5	457.

** - Less 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 HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	7	9.2	9.429	12.1	7.4	2.902	1.704	**	**	**	**
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	7	90.	88.714	93.	85.	12.905	3.592	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	10	8.	7.2	12.	2.	12.622	3.553	2.	3.5	9.	12.
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	9	8.3	8.233	8.7	7.6	0.105	0.324	7.6	8.05	8.45	8.7
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	9	8.3	8.116	8.7	7.6	0.121	0.347	7.6	8.05	8.45	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	9	0.005	0.008	0.025	0.002	0.	0.007	0.002	0.004	0.009	0.025
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.1	8.142	8.6	8.	0.03	0.173	8.	8.	8.2	8.51
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.1	8.116	8.6	8.	0.031	0.175	8.	8.	8.2	8.51
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.008	0.008	0.01	0.003	0.	0.002	0.003	0.006	0.01	0.01
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	119.	119.25	149.	81.	385.295	19.629	85.8	108.25	130.5	149.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	10.	11.792	47.	0.5	150.066	12.25	0.95	5.	12.75	38.6
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	10	0.31	0.376	0.65	0.23	0.023	0.153	0.232	0.265	0.493	0.647
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	10	1.4	1.366	1.9	0.74	0.147	0.384	0.748	1.075	1.688	1.884
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	9	0.073	0.09	0.15	0.056	0.001	0.034	0.056	0.068	0.12	0.15
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	11	48.	52.182	96.	23.	549.764	23.447	23.2	36.	72.	93.6
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	11	160.	234.909	600.	90.	23224.291	152.395	96.	138.	328.	556.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	11	20.	21.455	42.	10.	149.673	12.234	10.	10.	32.	42.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	11	100.	147.273	352.	26.	11147.418	105.581	33.6	80.	216.	345.6
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	20.	32.917	120.	5.	1406.629	37.505	5.	6.25	52.5	111.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.301	1.274	2.079	0.699	0.232	0.482	0.699	0.774	1.703	2.042
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			18.796								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12	## 0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

** - 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 1988 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	11.9	12.5	28.2	0.	94.8	9.737	0.06	3.15	21.3	27.24
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	11	1256.	2598.182	13160.	437.	13505940.764	3675.043	452.8	547.	2743.	11309.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	9	1270.	2723.222	13100.	468.	15865504.944	3983.153	468.	724.5	2720.	13100.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	11	420.	416.182	647.	200.	14487.764	120.365	216.8	326.	494.	620.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	370.	385.083	571.	185.	14957.174	122.3	197.6	300.	487.5	564.7
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	12	9.45	9.633	13.3	6.	6.301	2.51	6.15	7.35	11.8	13.27
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	12	90.	88.417	99.	78.	36.629	6.052	78.6	84.	92.5	97.5
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	12	6.	9.083	33.	2.	84.629	9.199	2.	2.	15.	27.9
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.9	7.882	8.3	7.5	0.06	0.244	7.5	7.8	8.1	8.26
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.9	7.819	8.3	7.5	0.064	0.253	7.5	7.8	8.1	8.26
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	11	0.013	0.015	0.032	0.005	0.	0.009	0.006	0.008	0.016	0.032
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	8.2	8.125	8.5	7.6	0.047	0.218	7.72	8.	8.2	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	8.2	8.067	8.5	7.6	0.051	0.226	7.72	8.	8.2	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.006	0.009	0.025	0.003	0.	0.006	0.004	0.006	0.01	0.021
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	126.5	119.5	147.	67.	559.909	23.662	73.	106.25	138.5	145.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	9.	19.708	158.	0.5	1932.066	43.955	0.5	1.125	12.	116.6
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.4	0.524	1.1	0.21	0.079	0.28	0.228	0.323	0.798	1.022
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	0.78	0.91	2.45	0.04	0.494	0.703	0.088	0.408	1.273	2.279
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.076	0.075	0.242	0.011	0.004	0.061	0.013	0.023	0.089	0.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	8	60.	57.	96.	20.	812.571	28.506	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	12	96.	201.5	1240.	40.	110783.364	332.841	40.6	60.	197.5	931.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	12	## 15.	36.333	160.	10.	1946.061	44.114	10.	10.	53.5	133.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	12	100.	153.667	640.	50.	28257.333	168.099	50.	56.5	155.	536.8
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	15.	33.167	203.	5.	3025.788	55.007	5.	6.25	37.5	154.1
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.151	1.224	2.307	0.699	0.228	0.478	0.699	0.774	1.571	2.096
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			16.748								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12	## 0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

** - 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 1989 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	14.	13.158	24.8	0.2	67.706	8.228	1.01	5.7	20.775	23.93
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	4	1617.5	1655.25	2321.	1065.	266522.917	516.259	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	9	1760.	2202.222	4300.	1120.	1316069.444	1147.201	1120.	1365.	3220.	4300.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	12	341.5	359.75	535.	267.	6313.295	79.456	269.7	319.75	364.75	523.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	12	324.5	334.917	555.	228.	9374.083	96.82	231.3	273.75	339.25	536.7
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	12	9.4	9.758	13.5	7.4	3.561	1.887	7.52	8.125	10.9	13.05
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	12	91.5	93.	100.	88.	14.182	3.766	88.3	91.	95.75	99.7
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	10	6.	7.2	16.	2.	23.289	4.826	2.	3.5	12.	15.6
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	8.05	8.1	8.6	7.7	0.082	0.286	7.7	7.925	8.35	8.57
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	8.047	8.021	8.6	7.7	0.089	0.298	7.7	7.925	8.35	8.57
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.009	0.01	0.02	0.003	0.	0.006	0.003	0.005	0.012	0.02
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	7.85	7.875	8.4	7.3	0.086	0.293	7.39	7.7	8.075	8.34
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	7.847	7.783	8.4	7.3	0.095	0.308	7.39	7.7	8.075	8.34
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.014	0.016	0.05	0.004	0.	0.012	0.005	0.008	0.02	0.043
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	116.	101.6	135.	0.2	1432.938	37.854	22.04	87.	128.75	134.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	6.	12.292	56.	0.5	281.384	16.775	0.5	0.5	20.5	47.9
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	10	0.34	0.401	0.94	0.14	0.054	0.233	0.146	0.268	0.498	0.91
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	10	1.105	1.111	1.4	0.84	0.028	0.168	0.849	0.998	1.225	1.387
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	10	0.077	0.097	0.304	0.02	0.006	0.08	0.022	0.049	0.109	0.288
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	5	22.	21.8	28.	16.	18.2	4.266	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	12	195.	275.167	1200.	20.	100131.242	316.435	38.	90.	325.	981.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	12	22.	28.5	76.	10.	553.545	23.528	10.	10.	37.5	74.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	12	147.	242.5	1200.	64.	94845.182	307.969	71.8	122.	240.	925.2
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	10.	203.375	2000.	0.5	325687.597	570.69	1.85	5.	82.5	1478.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.	1.224	3.301	-0.301	0.907	0.952	-0.001	0.699	1.869	3.035
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			16.749								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12	## 0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

** - 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 1990 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	15.3	14.	26.3	3.7	61.627	7.85	4.03	6.05	21.2	25.52
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	19	2160.	3084.737	12300.	550.	11656870.871	3414.216	550.	1050.	3630.	12300.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	4	1145.	1320.	2400.	590.	592866.667	769.978	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	12	297.	301.	380.	196.	3412.909	58.42	208.6	253.75	359.	379.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	5	253.	253.8	262.	247.	43.7	6.611	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	12	9.	9.45	12.5	6.6	3.903	1.976	6.9	7.6	11.175	12.35
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	12	92.	93.083	100.	83.	37.902	6.156	83.3	89.25	100.	100.
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	11	8.	10.909	36.	2.	101.891	10.094	2.	4.	16.	32.8
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	8.05	8.058	8.7	7.3	0.159	0.399	7.36	7.925	8.325	8.67
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	8.047	7.884	8.7	7.3	0.192	0.438	7.36	7.925	8.325	8.67
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.009	0.013	0.05	0.002	0.	0.014	0.002	0.005	0.012	0.045
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	7.85	7.892	8.5	7.	0.168	0.41	7.15	7.65	8.25	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	7.847	7.688	8.5	7.	0.213	0.462	7.15	7.65	8.25	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.014	0.02	0.1	0.003	0.001	0.026	0.004	0.006	0.023	0.079
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	107.5	105.583	137.	62.	487.174	22.072	65.6	95.75	124.25	135.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	4.5	22.5	191.	1.	2872.636	53.597	1.3	2.25	16.	141.5
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.39	0.523	1.41	0.19	0.109	0.33	0.232	0.343	0.573	1.251
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.02	0.941	1.71	0.11	0.207	0.454	0.17	0.617	1.24	1.59
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.068	0.071	0.134	0.013	0.002	0.044	0.016	0.027	0.105	0.133
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	17.	16.917	28.	10.	19.174	4.379	10.6	15.25	17.75	25.6
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	12	249.	469.5	2700.	102.	517360.818	719.278	109.8	137.5	478.	2065.2
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	12	29.	50.833	250.	10.	4251.242	65.202	13.	20.5	47.5	198.4

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

Annual Analysis for 1990 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	11	180.	397.091	2700.	20.	589317.091	767.67	38.	110.	258.	2220.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	20.	195.417	2000.	5.	324070.265	569.272	6.5	10.	82.5	1430.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.301	1.463	3.301	0.699	0.495	0.704	0.789	1.	1.869	2.911
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			29.042								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

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Annual Analysis for 1991 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	15.8	14.925	24.7	3.2	58.935	7.677	3.53	8.575	22.65	24.49
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	12	1497.	1758.083	4440.	463.	1567382.083	1251.951	474.7	586.75	2599.5	4081.5
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	12	343.	332.833	392.	225.	2267.424	47.617	245.1	300.	373.5	388.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	6	278.	277.	340.	203.	2360.8	48.588	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	11	8.9	9.455	12.7	7.5	3.443	1.855	7.5	7.7	11.	12.56
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	11	93.	93.273	98.	90.	6.618	2.573	90.	91.	95.	97.6
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	12 ##	3.	4.667	12.	2.	11.879	3.447	2.	2.	8.	10.8
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.8	7.85	8.6	7.	0.161	0.401	7.21	7.725	7.875	8.57
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.8	7.676	8.6	7.	0.194	0.441	7.21	7.725	7.875	8.57
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.016	0.021	0.1	0.003	0.001	0.025	0.003	0.013	0.019	0.076
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	7.9	7.8	8.2	7.1	0.087	0.295	7.22	7.625	7.975	8.17
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	7.9	7.687	8.2	7.1	0.101	0.318	7.22	7.625	7.975	8.17
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.013	0.021	0.079	0.006	0.	0.02	0.007	0.011	0.024	0.065
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	119.	120.917	151.	80.	366.447	19.143	87.5	112.	131.5	150.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	8.5	11.833	47.	0.5	180.288	13.427	0.5	1.25	18.	39.5
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.23	0.228	0.4	0.05	0.01	0.1	0.068	0.163	0.268	0.394
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.005	1.063	2.18	0.34	0.361	0.601	0.355	0.558	1.473	2.072
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.046	0.069	0.184	0.022	0.003	0.059	0.022	0.025	0.095	0.183
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	15.	16.5	22.	12.	10.091	3.177	12.3	14.25	19.75	21.4
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	11	182.	214.364	710.	64.	31146.255	176.483	69.2	108.	236.	624.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	11	24.	170.545	1600.	10.	225606.473	474.98	10.	10.	32.	1302.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	11	180.	592.545	4600.	74.	1771238.473	1330.879	84.8	150.	290.	3738.4
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	20.	22.917	60.	5.	374.811	19.36	5.	5.	37.5	57.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	12	1.301	1.178	1.778	0.699	0.197	0.444	0.699	0.699	1.571	1.754
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			15.05								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

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Annual Analysis for 1992 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	11	14.4	13.191	24.3	0.3	65.565	8.097	1.32	6.	21.	24.24
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	10	1878.5	1848.7	4008.	705.	918383.122	958.323	720.	1102.5	2203.	3861.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	1	852.	852.	852.	852.	0.	0.	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	11	289.	288.364	358.	188.	2932.655	54.154	190.8	265.	333.	354.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	231.	219.091	259.	137.	1750.491	41.839	140.8	190.	256.	259.
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	11	9.8	9.891	13.2	7.3	3.763	1.94	7.38	7.9	11.6	12.92
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	2	93.	93.	94.	92.	2.	1.414	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	11	8.	9.273	39.	2.	108.818	10.432	2.	4.	11.	33.6
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.8	7.836	8.4	7.2	0.109	0.329	7.26	7.7	8.1	8.36
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.8	7.72	8.4	7.2	0.124	0.351	7.26	7.7	8.1	8.36

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Annual Analysis for 1992 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	11	0.016	0.019	0.063	0.004	0.	0.016	0.004	0.008	0.02	0.057
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	11	7.9	7.755	8.1	7.1	0.123	0.35	7.12	7.4	8.	8.08
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	11	7.9	7.604	8.1	7.1	0.148	0.384	7.12	7.4	8.	8.08
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	11	0.013	0.025	0.079	0.008	0.001	0.025	0.008	0.01	0.04	0.076
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	11	115.	96.273	128.	15.	1296.818	36.011	24.	62.	123.	127.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	11	7.	7.364	20.	0.5	40.805	6.388	0.5	1.	11.	19.2
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	11	0.31	0.314	0.56	0.18	0.011	0.107	0.188	0.23	0.35	0.534
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	11	1.09	1.159	1.73	0.61	0.106	0.325	0.65	0.98	1.32	1.694
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	11	0.076	0.09	0.156	0.048	0.001	0.036	0.048	0.067	0.124	0.153
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	11	15.	16.455	30.	12.	23.473	4.845	12.2	14.	16.	27.8
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	11	140.	173.091	598.	22.	22664.291	150.547	35.2	104.	176.	525.2
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	11	20.	20.364	40.	10.	103.055	10.152	10.	10.	24.	38.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	11	100.	128.727	252.	10.	5554.618	74.529	16.	86.	184.	244.4
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	20.	35.455	110.	5.	1362.273	36.909	5.	10.	50.	108.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	1.301	1.336	2.041	0.699	0.215	0.464	0.699	1.	1.699	2.033
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			21.671								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

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Annual Analysis for 1993 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	13.5	14.55	25.8	1.5	80.919	8.996	1.92	6.15	24.45	25.71
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	4	4475.	34710.	128000.	1890.	3869589400.	62206.024	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	12	310.5	294.	390.	177.	6639.455	81.483	178.2	200.5	370.5	385.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	11	271.	248.636	348.	148.	4378.055	66.167	149.2	203.	296.	343.6
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	11	10.	9.718	13.2	7.	5.476	2.34	7.02	7.3	11.9	13.12
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	3	8.	7.767	15.	0.3	54.063	7.353	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.85	7.808	8.3	7.3	0.095	0.309	7.33	7.525	8.	8.27
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	12	7.847	7.708	8.3	7.3	0.106	0.326	7.33	7.525	8.	8.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	12	0.014	0.02	0.05	0.005	0.	0.014	0.005	0.01	0.03	0.047
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	12	7.9	7.742	8.3	7.1	0.155	0.394	7.13	7.275	8.	8.21
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	12	7.889	7.569	8.3	7.1	0.188	0.434	7.13	7.275	8.	8.21
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	12	0.013	0.027	0.079	0.005	0.001	0.026	0.007	0.01	0.055	0.075
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	12	118.	109.583	160.	60.	1216.992	34.885	60.6	70.25	136.5	156.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	7.	27.667	109.	0.5	1577.47	39.717	0.5	4.25	56.	105.1
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	11	0.39	0.473	1.17	0.05	0.123	0.351	0.072	0.25	0.64	1.144
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	11	1.19	1.061	1.49	0.51	0.131	0.362	0.524	0.7	1.38	1.484
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	11	0.058	0.101	0.304	0.012	0.012	0.109	0.012	0.022	0.174	0.303
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	17.	18.25	37.	11.	50.932	7.137	11.3	12.75	20.5	33.4
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	12	118.	366.333	1740.	60.	323535.879	568.802	66.	100.	210.	1638.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	12	21.	205.	1840.	10.	269896.364	519.516	10.	10.	140.5	1354.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	12	171.	436.167	1390.	80.	263043.242	512.877	87.8	125.	925.5	1361.2
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	40.	768.636	4600.	5.	2454210.455	1566.592	6.	10.	510.	4300.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	1.602	1.881	3.663	0.699	0.98	0.99	0.759	1.	2.708	3.628
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			76.002								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5

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Annual Analysis for 1994 - Station HAFE0052

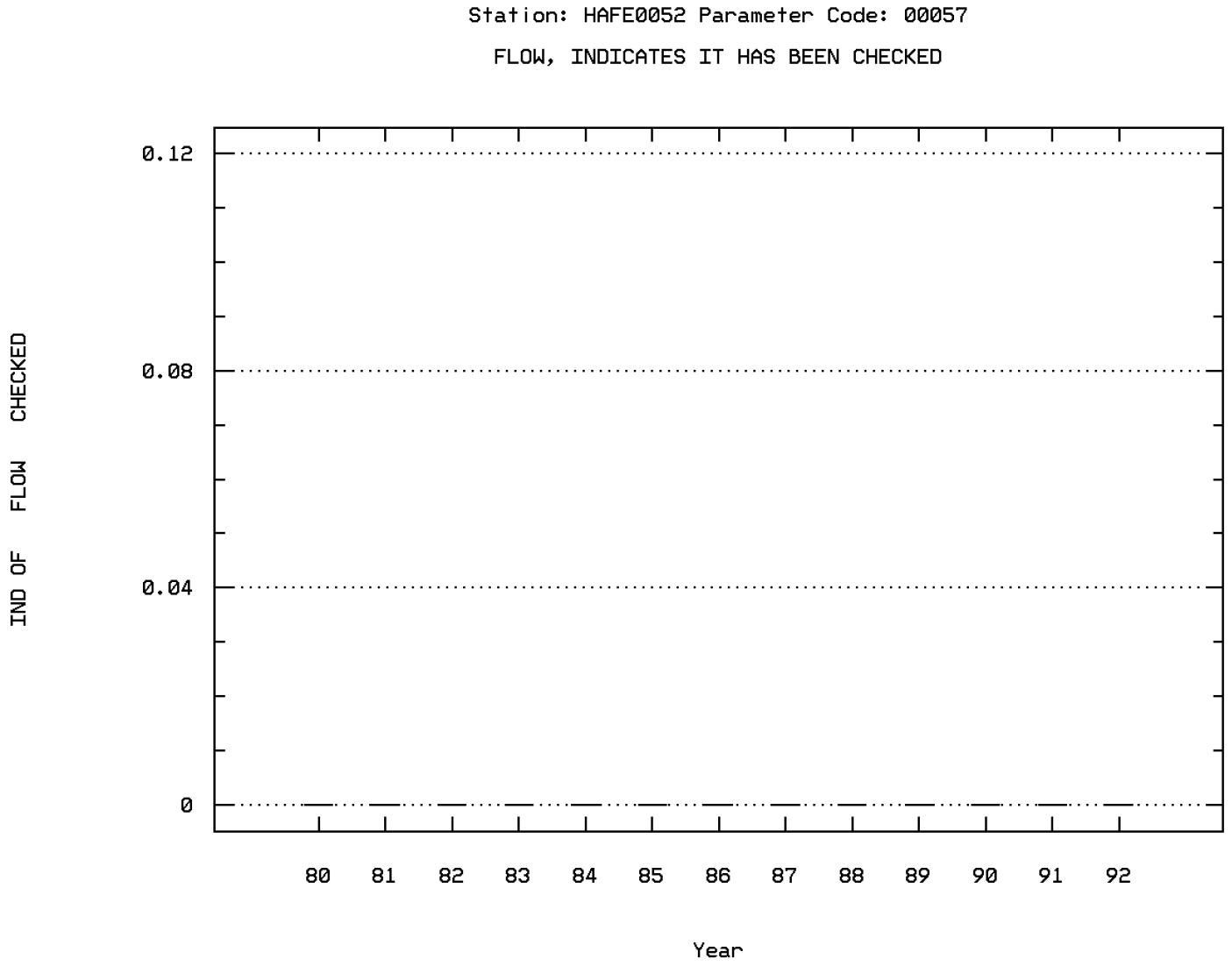
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	12	9.6	12.108	28.2	0.2	83.352	9.13	0.92	4.525	20.75	27.45
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	11	320.	297.	408.	157.	6019.4	77.585	164.8	237.	349.	398.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	8	339.5	291.625	386.	17.	16012.839	126.542	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	11	10.8	10.418	13.6	7.4	5.094	2.257	7.48	7.9	12.4	13.48
00340p	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.5	7.509	8.4	6.7	0.183	0.428	6.78	7.3	7.7	8.26
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	11	7.5	7.322	8.4	6.7	0.221	0.471	6.78	7.3	7.7	8.26
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	11	0.032	0.048	0.2	0.004	0.003	0.054	0.007	0.02	0.05	0.176
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	11	8.	7.945	8.4	7.	0.185	0.43	7.08	7.7	8.3	8.38
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	11	8.	7.701	8.4	7.	0.25	0.5	7.08	7.7	8.3	8.38
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	11	0.01	0.02	0.1	0.004	0.001	0.029	0.004	0.005	0.02	0.088
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	11	132.	114.909	152.	54.	1115.891	33.405	57.6	86.	138.	151.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	12	5.	11.792	80.	0.5	482.748	21.972	0.5	1.125	9.75	60.8
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	12	0.23	0.254	0.75	0.05	0.034	0.183	0.05	0.158	0.27	0.645
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	12	1.125	1.208	1.76	0.67	0.102	0.32	0.736	0.972	1.488	1.706
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	12	0.048	0.063	0.296	0.014	0.006	0.076	0.015	0.023	0.064	0.23
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	12	14.5	14.917	19.	9.	8.447	2.906	10.2	13.	18.	18.7
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	12	162.5	315.417	1680.	80.	195270.265	441.894	80.	125.	290.	1308.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	11	28.	41.545	122.	10.	1628.273	40.352	10.	15.	40.	121.6
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	12	160.	240.417	1060.	65.	73147.538	270.458	69.5	105.	235.	850.
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	50.	60.455	220.	5.	3522.273	59.349	8.	20.	80.	194.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	11	1.699	1.609	2.342	0.699	0.187	0.432	0.819	1.301	1.903	2.265
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			40.636								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	11 ##	0.5	0.545	1.	0.5	0.023	0.151	0.5	0.5	0.5	0.9

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

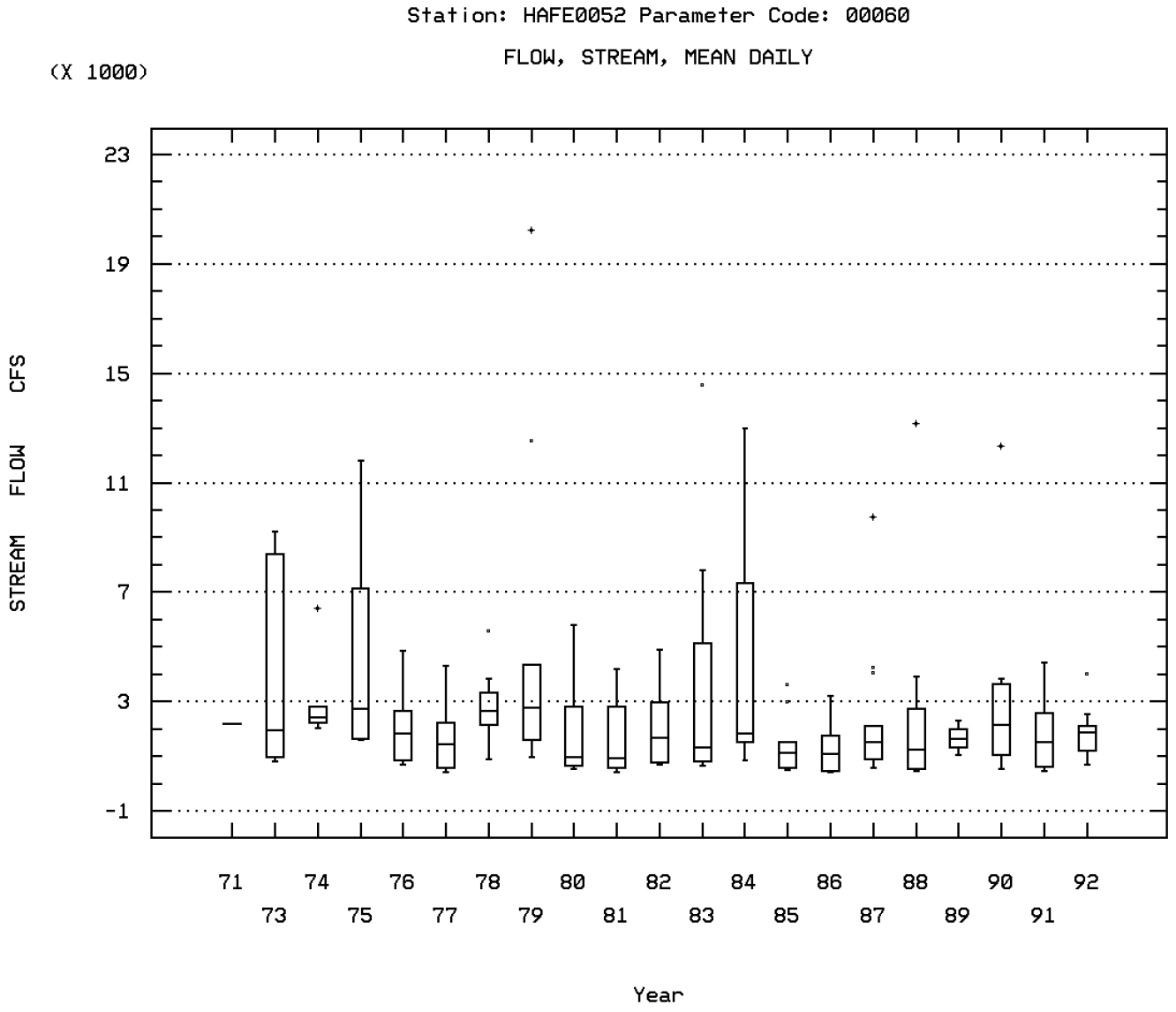
Annual Analysis for 1995 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	6	10.	9.45	20.5	0.1	63.575	7.973	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	5	276.	279.4	305.	247.	520.3	22.81	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	6	299.	290.333	315.	252.	693.467	26.334	**	**	**	**
00299p	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	5	9.7	10.86	13.9	8.5	6.488	2.547	**	**	**	**
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	5	7.4	7.38	7.8	6.9	0.147	0.383	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	5	7.4	7.25	7.8	6.9	0.168	0.41	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	5	0.04	0.056	0.126	0.016	0.002	0.046	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	6	7.9	7.9	8.2	7.5	0.08	0.283	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	6	7.889	7.824	8.2	7.5	0.087	0.295	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	6	0.013	0.015	0.032	0.006	0.	0.01	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	6	107.5	108.167	115.	100.	31.767	5.636	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	6	4.5	7.5	30.	0.5	125.8	11.216	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	4	0.28	0.283	0.45	0.12	0.018	0.136	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	6	0.945	1.032	1.67	0.73	0.122	0.349	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	6	0.055	0.072	0.136	0.023	0.002	0.042	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	6	14.5	14.833	20.	11.	10.967	3.312	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	6	210.	290.	800.	120.	64280.	253.535	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	6 ##	15.	23.	60.	10.	382.	19.545	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	6	200.	266.667	700.	100.	47306.667	217.501	**	**	**	**
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	6	10.	68.333	340.	5.	17886.667	133.741	**	**	**	**
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	6	1.	1.255	2.531	0.699	0.5	0.707	**	**	**	**
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			17.999								
70508p	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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



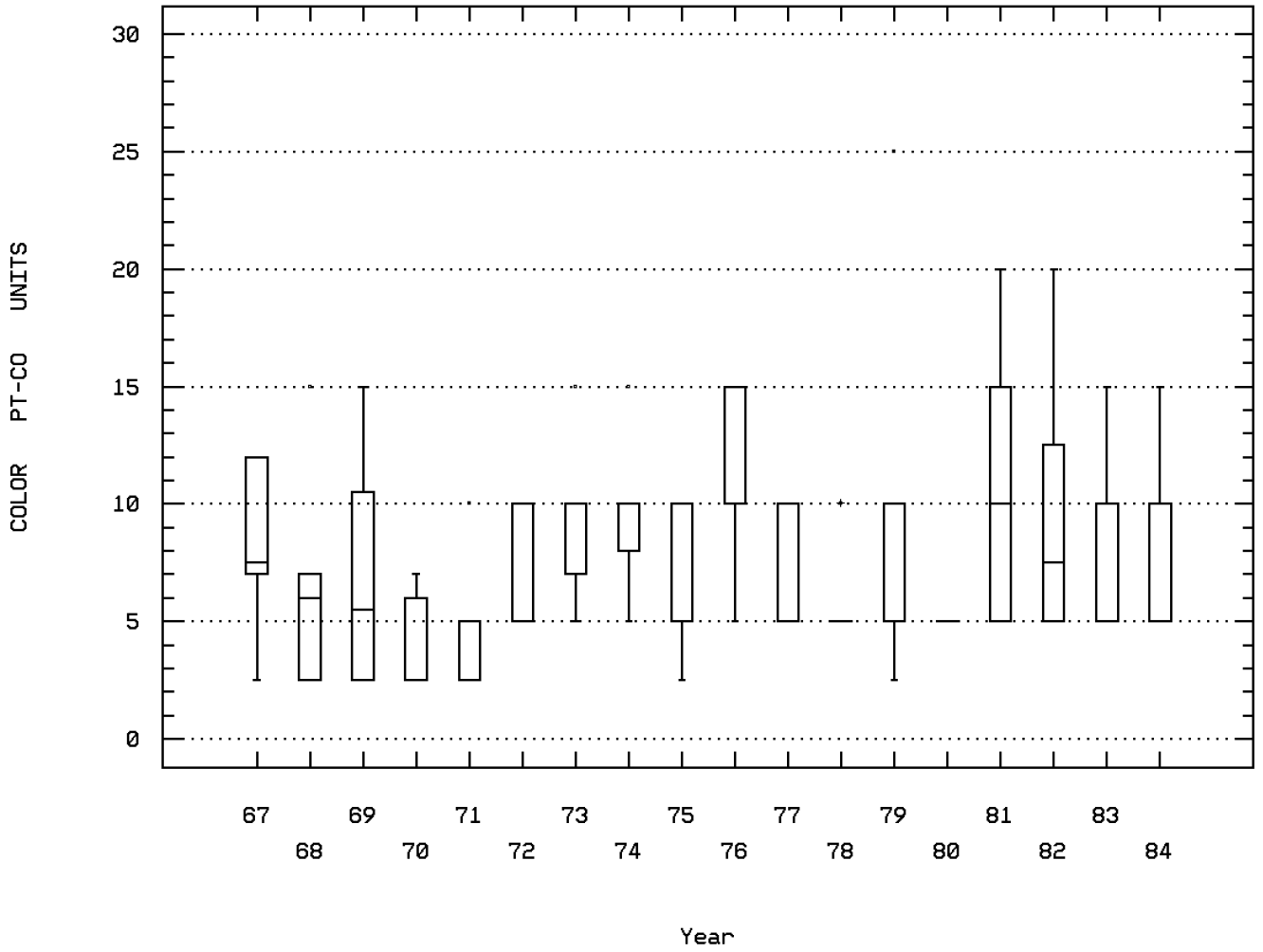
Shenandoah River at Harpers Ferry, W. V



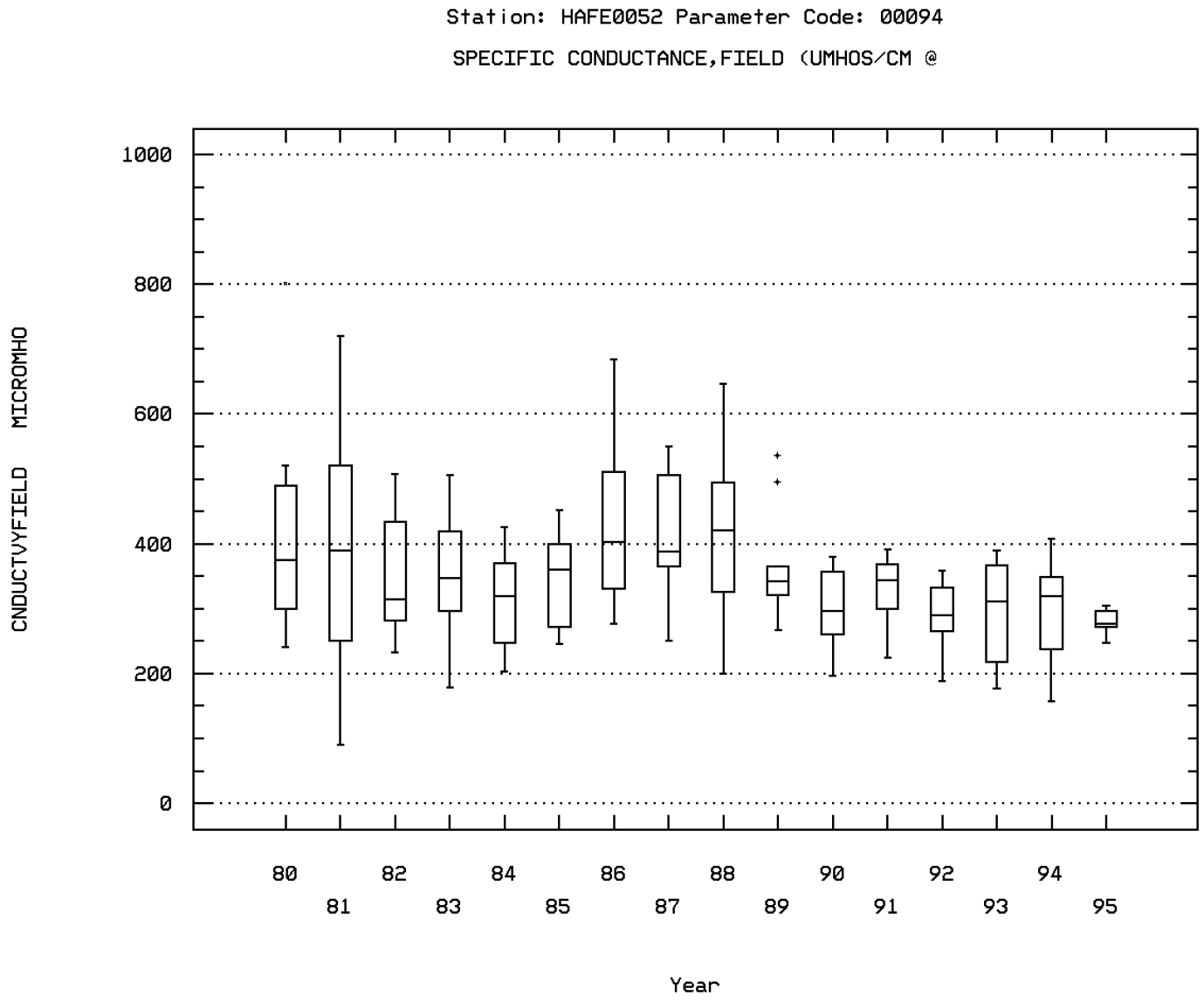
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00080

COLOR (PLATINUM-COBALT UNITS)



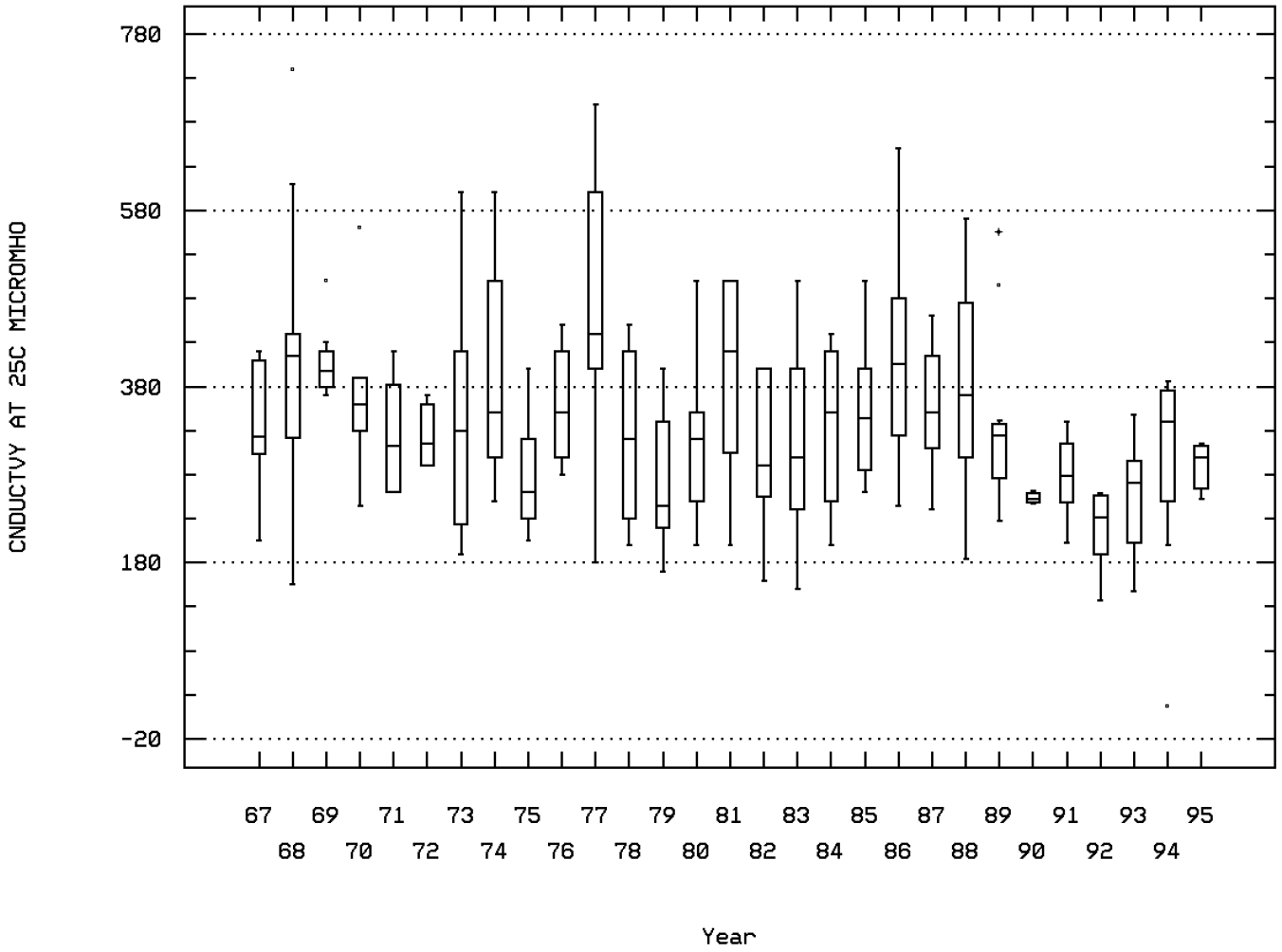
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00095

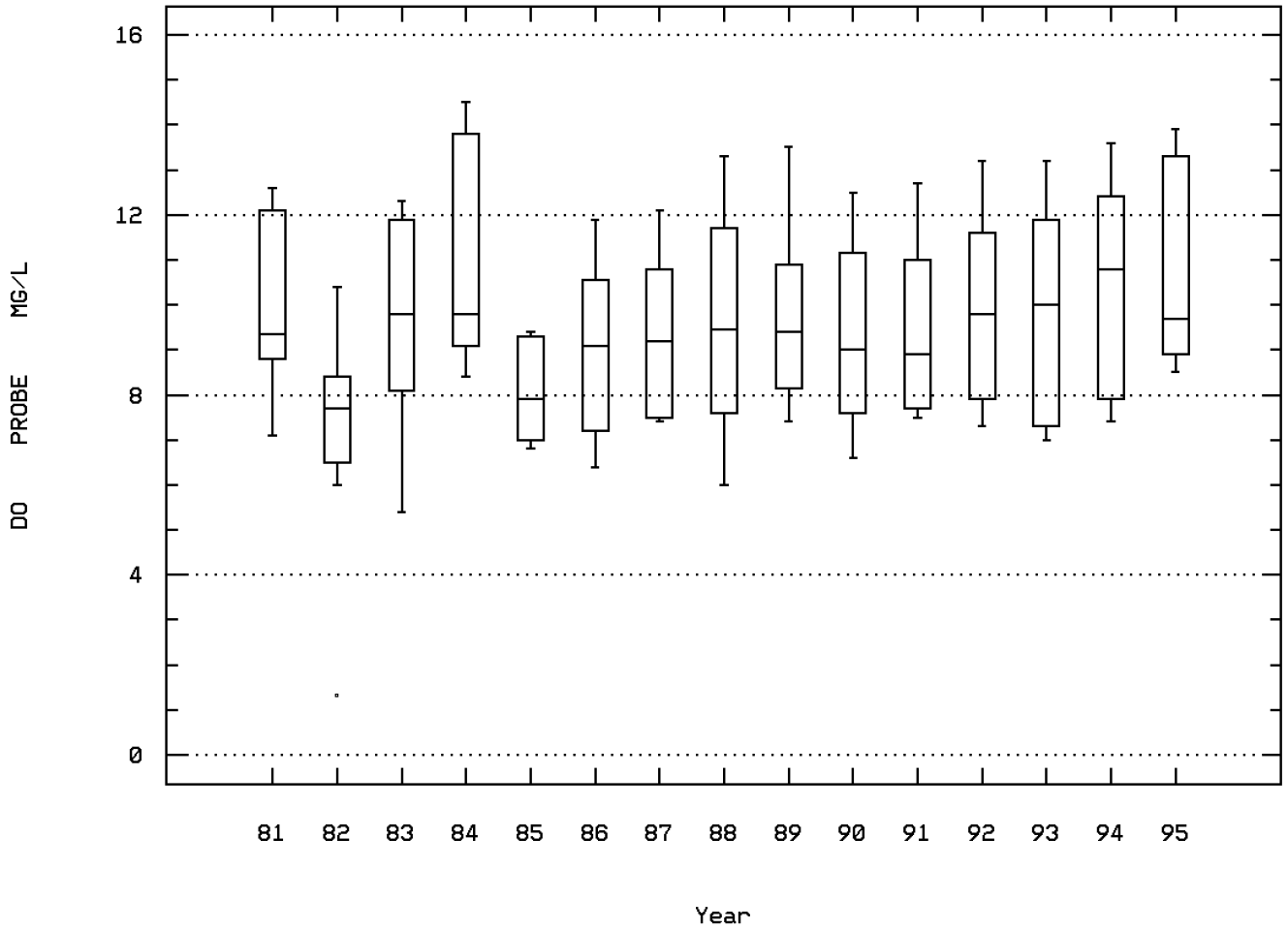
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00299

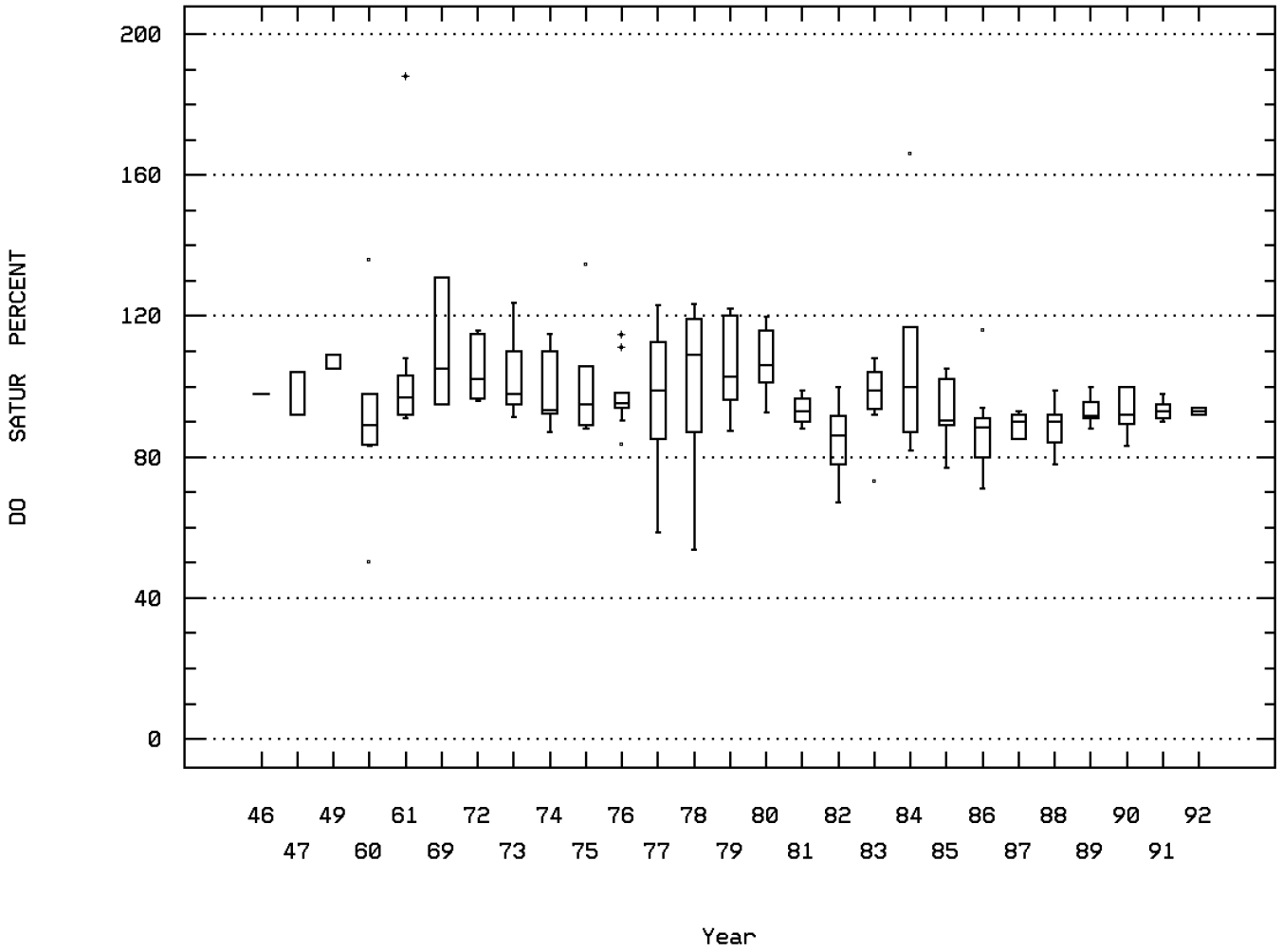
OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00301

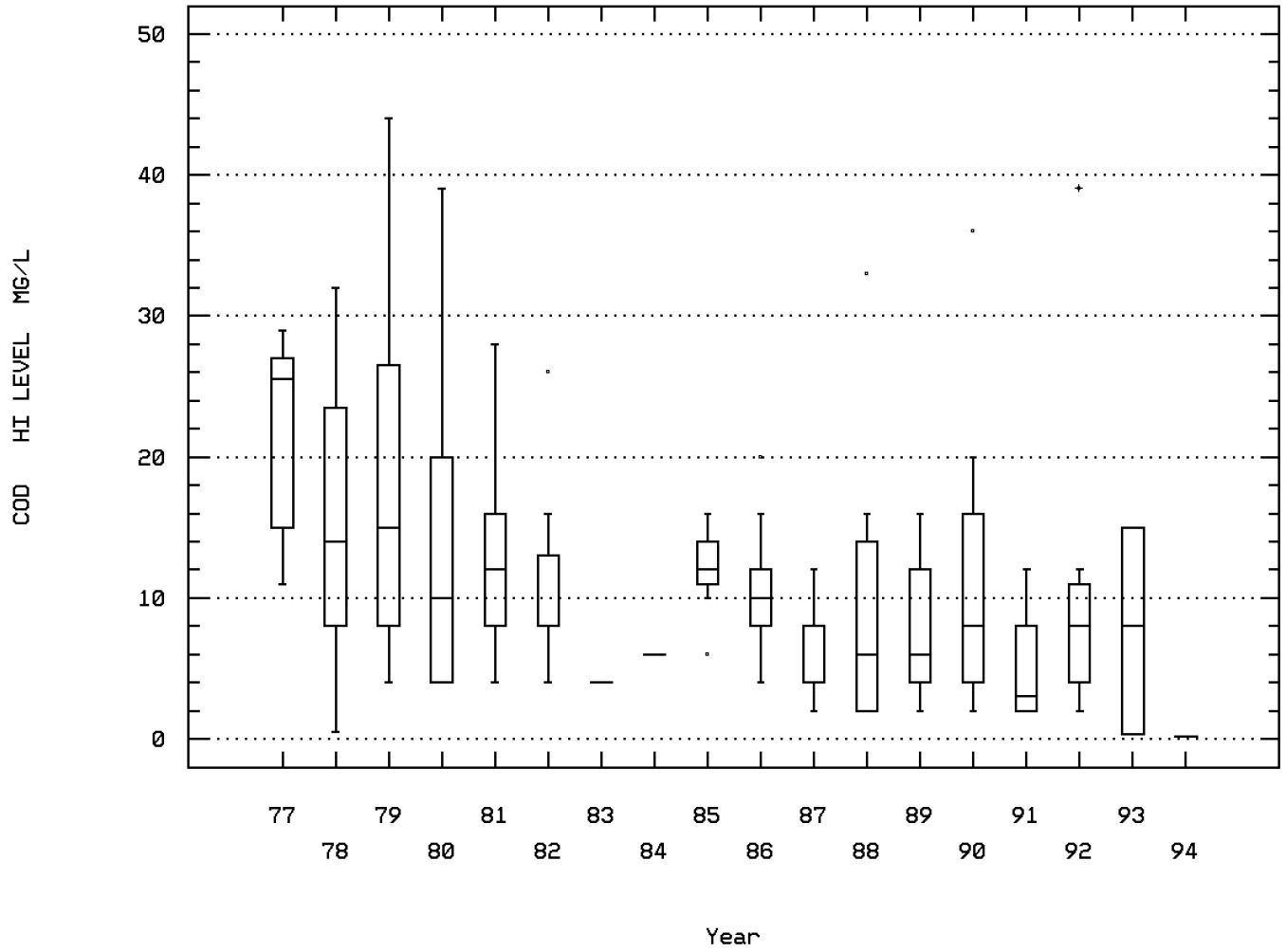
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



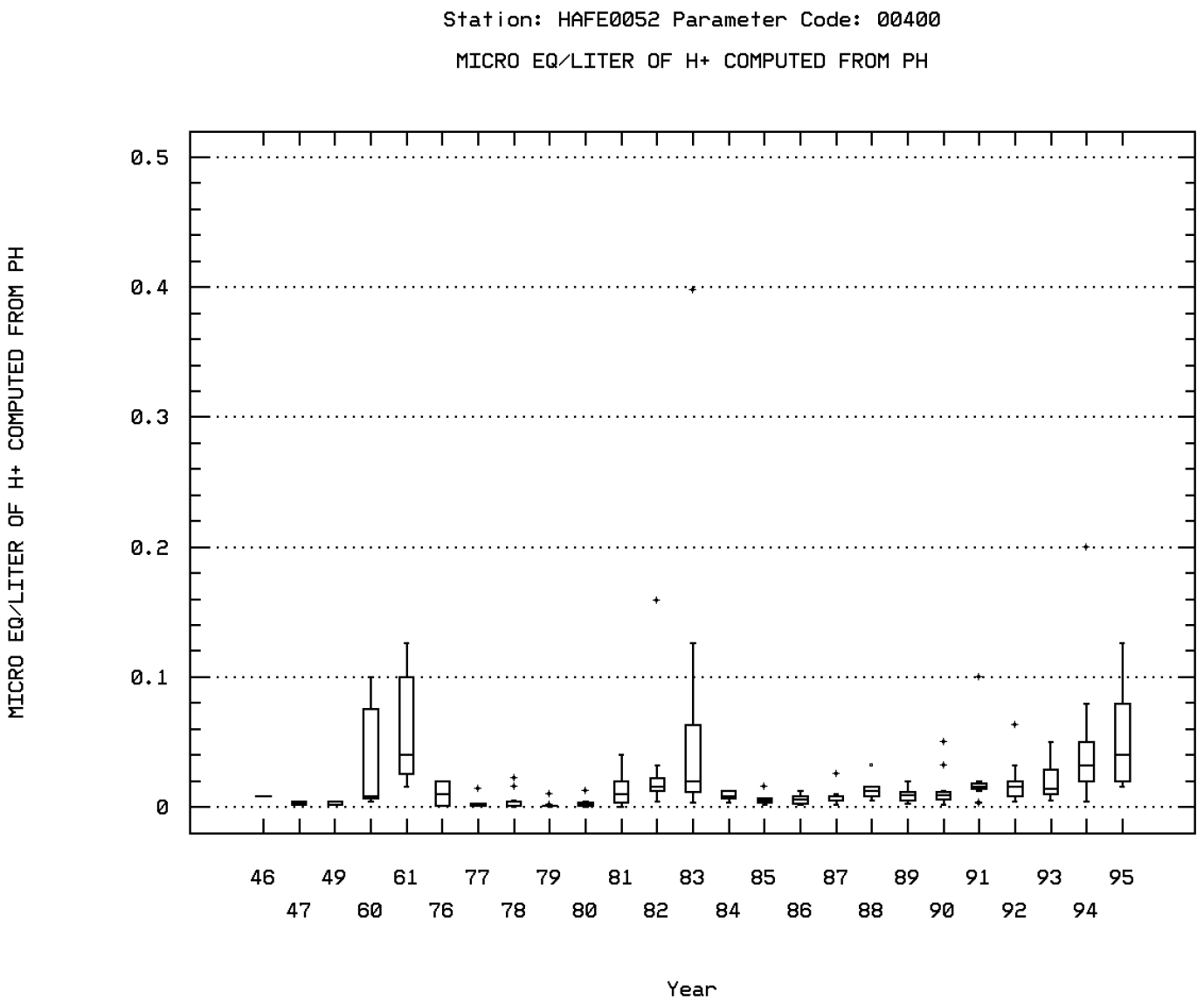
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00340

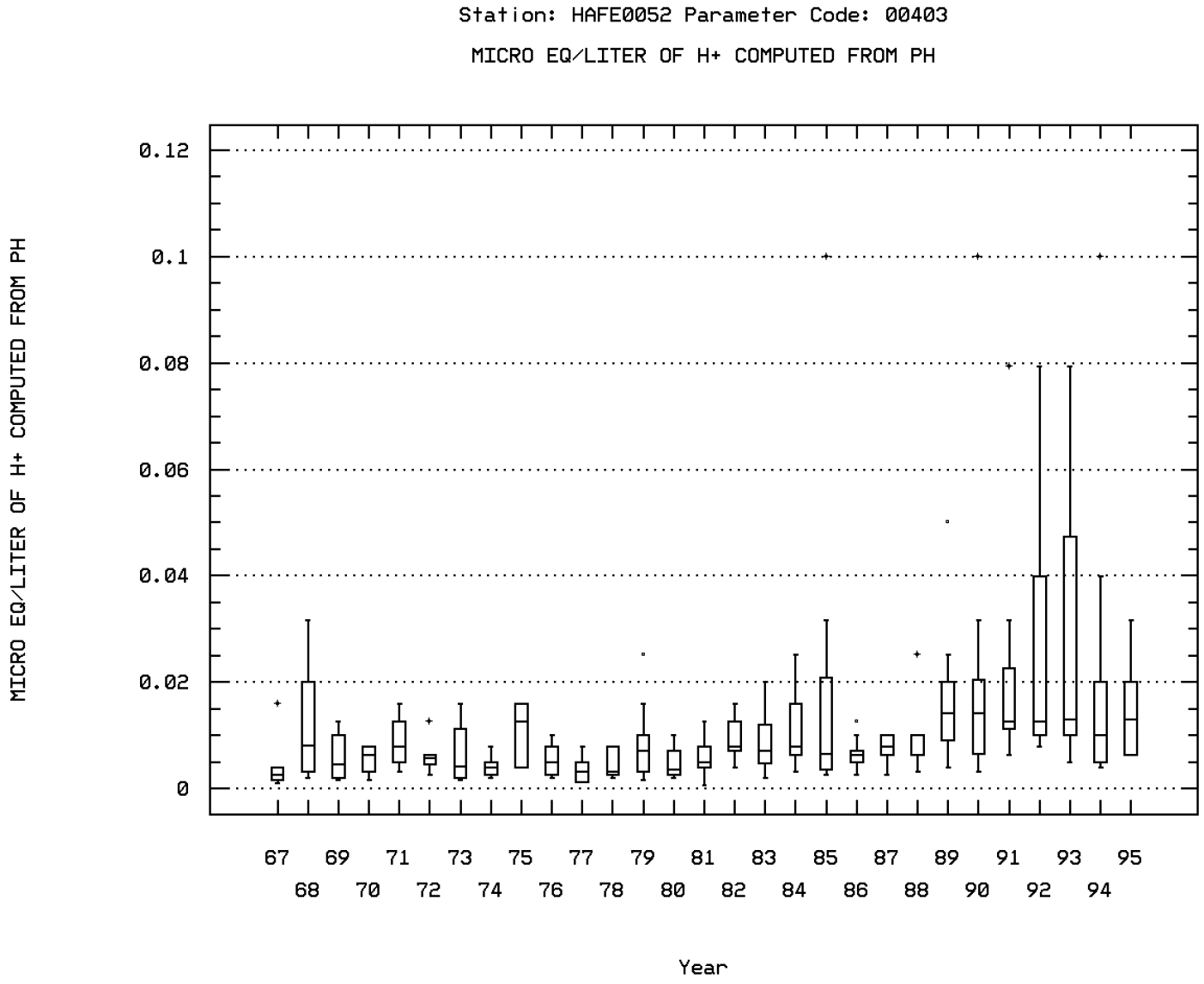
COD, .25N K2CR2O7



Shenandoah River at Harpers Ferry, W. V



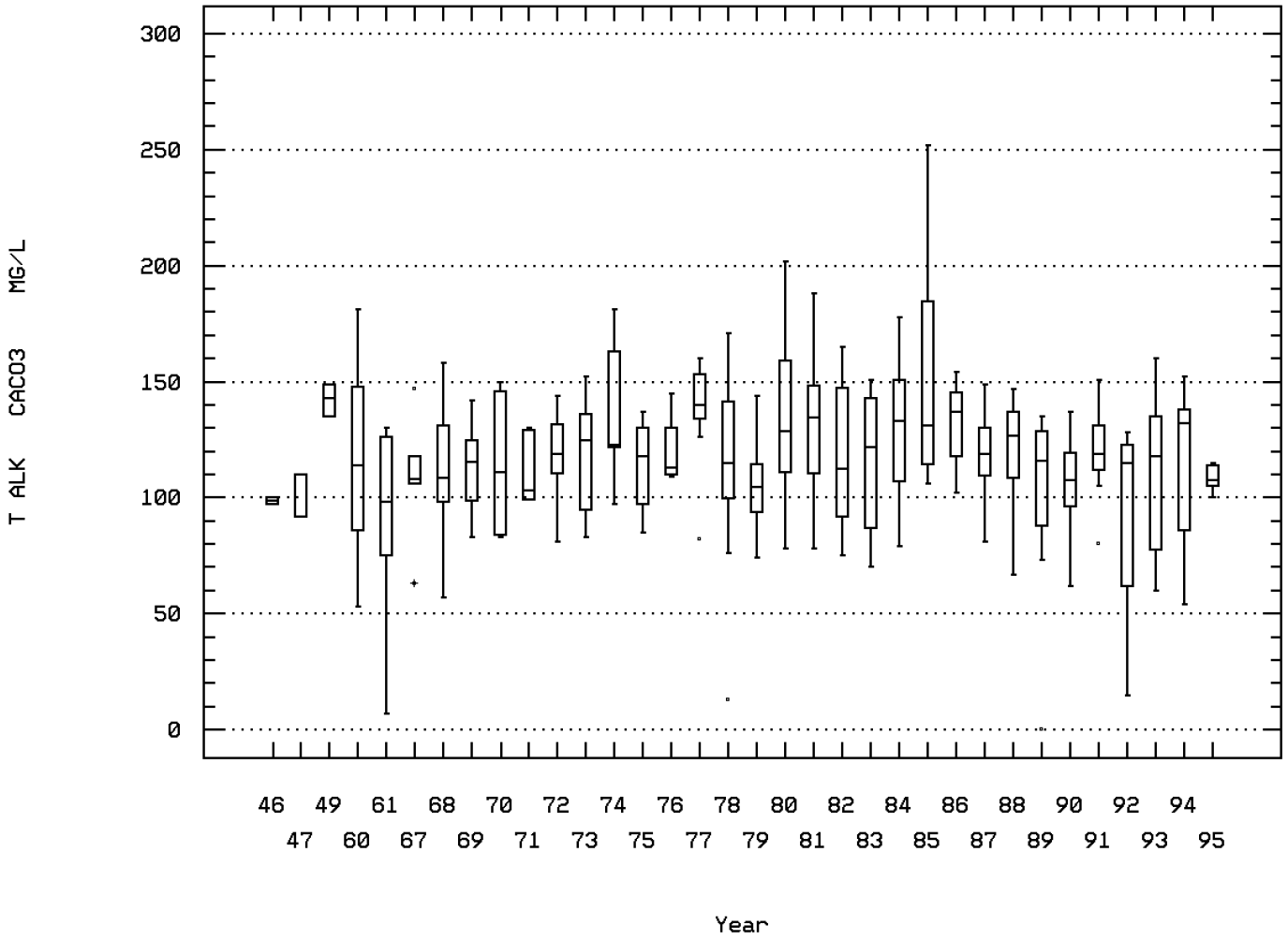
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00410

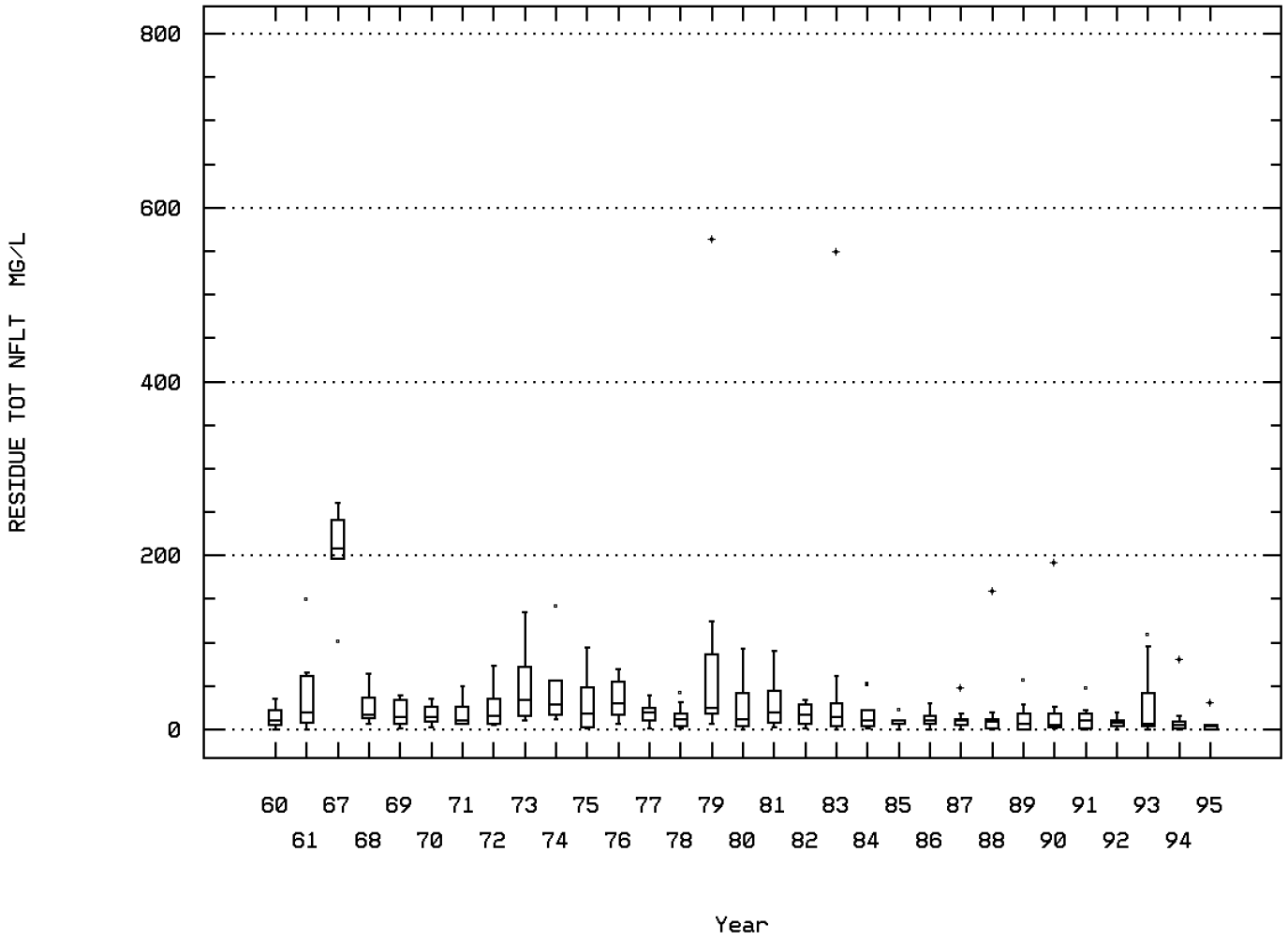
ALKALINITY, TOTAL (MG/L AS CACO3)



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00530

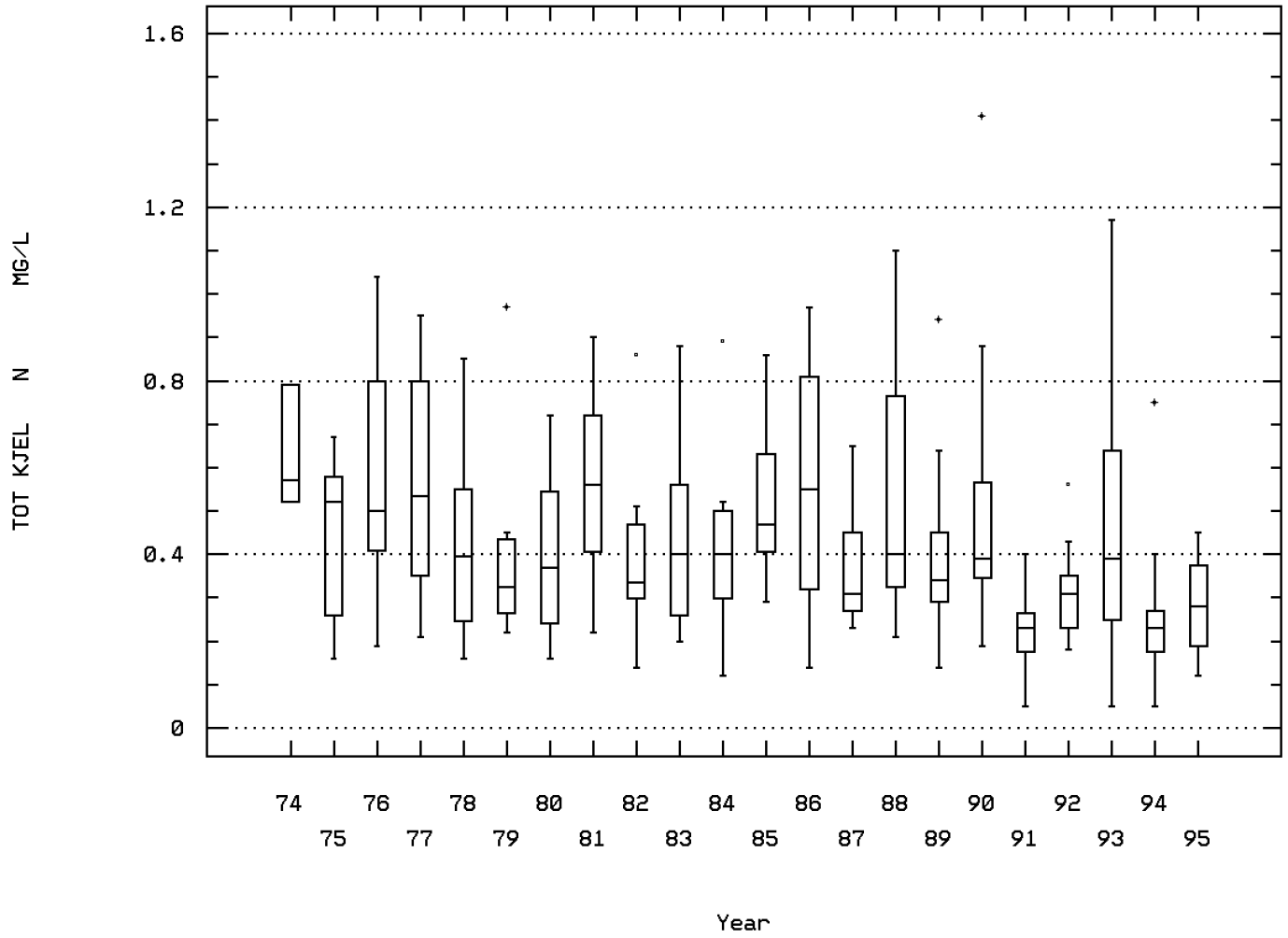
RESIDUE, TOTAL NONFILTRABLE (MG/L)



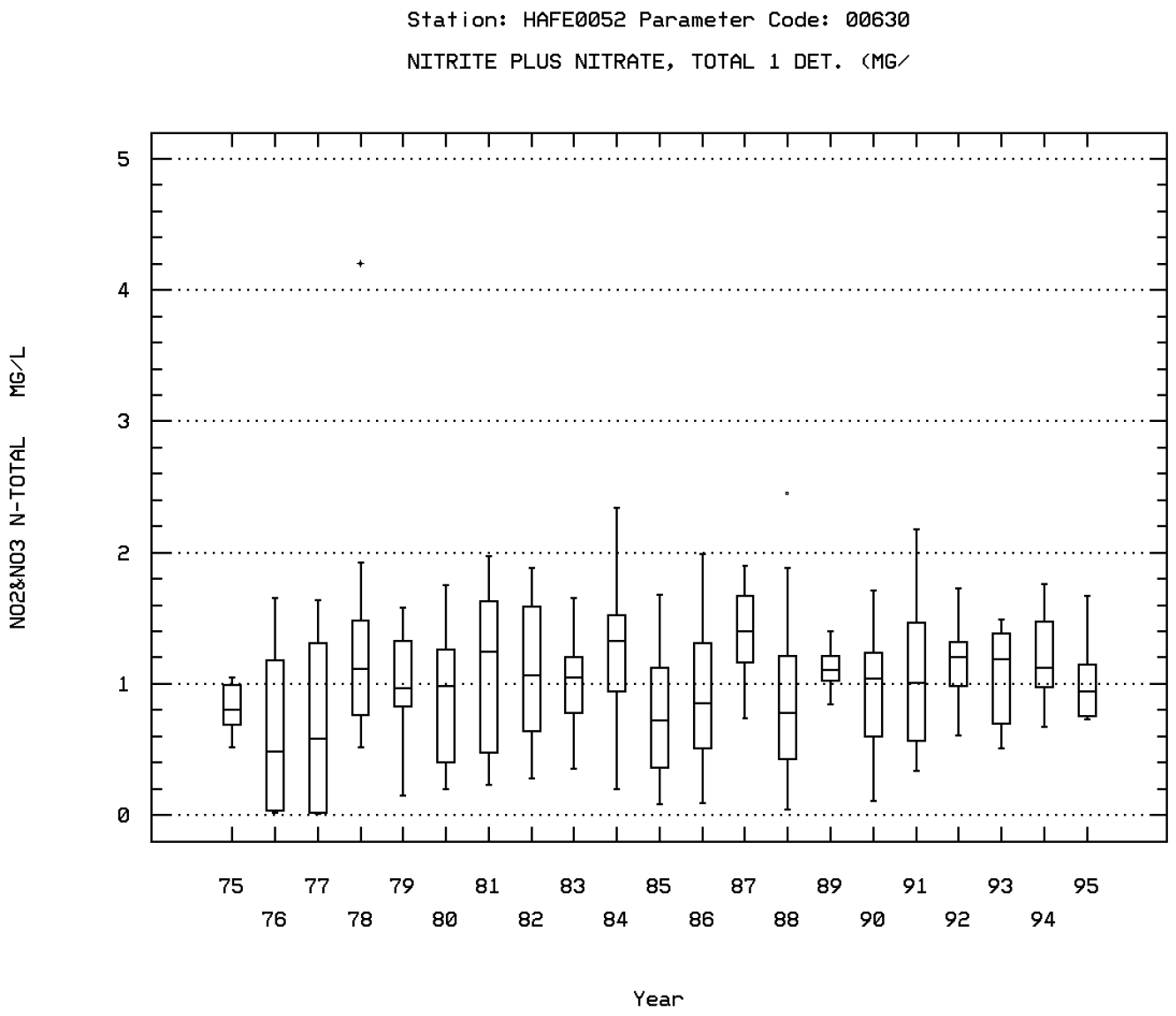
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00625

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



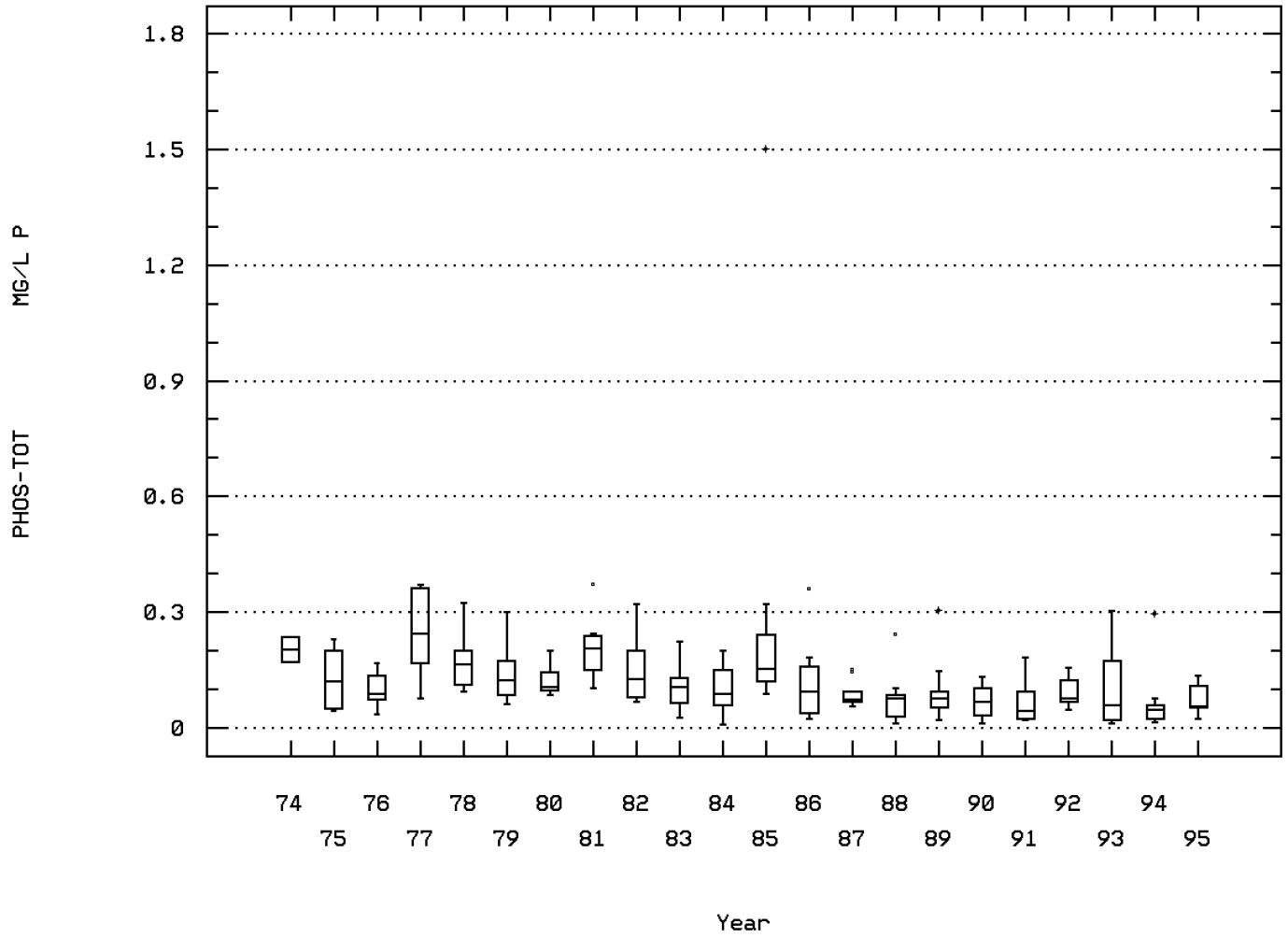
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00665

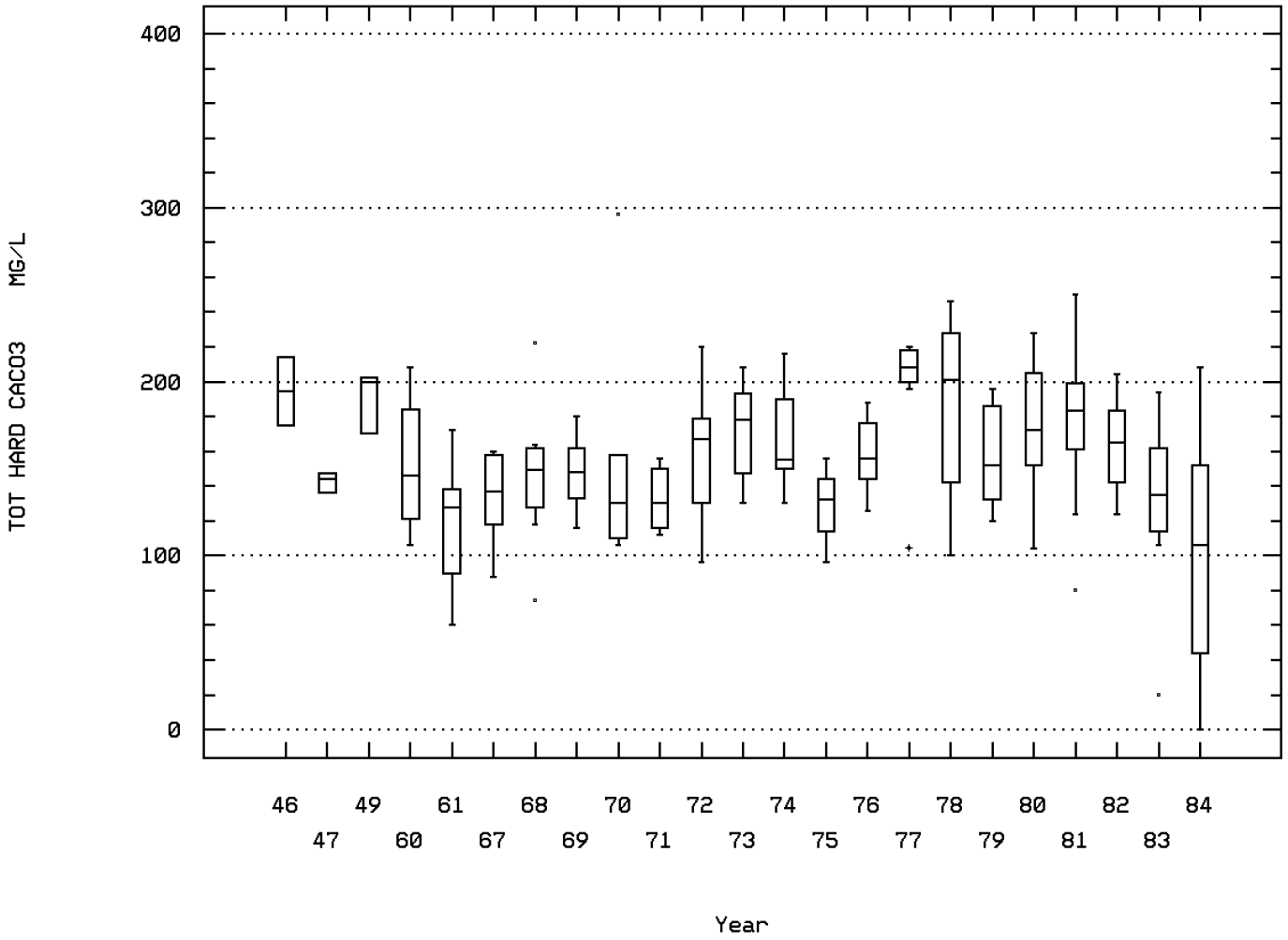
PHOSPHORUS, TOTAL (MG/L AS P)



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00900

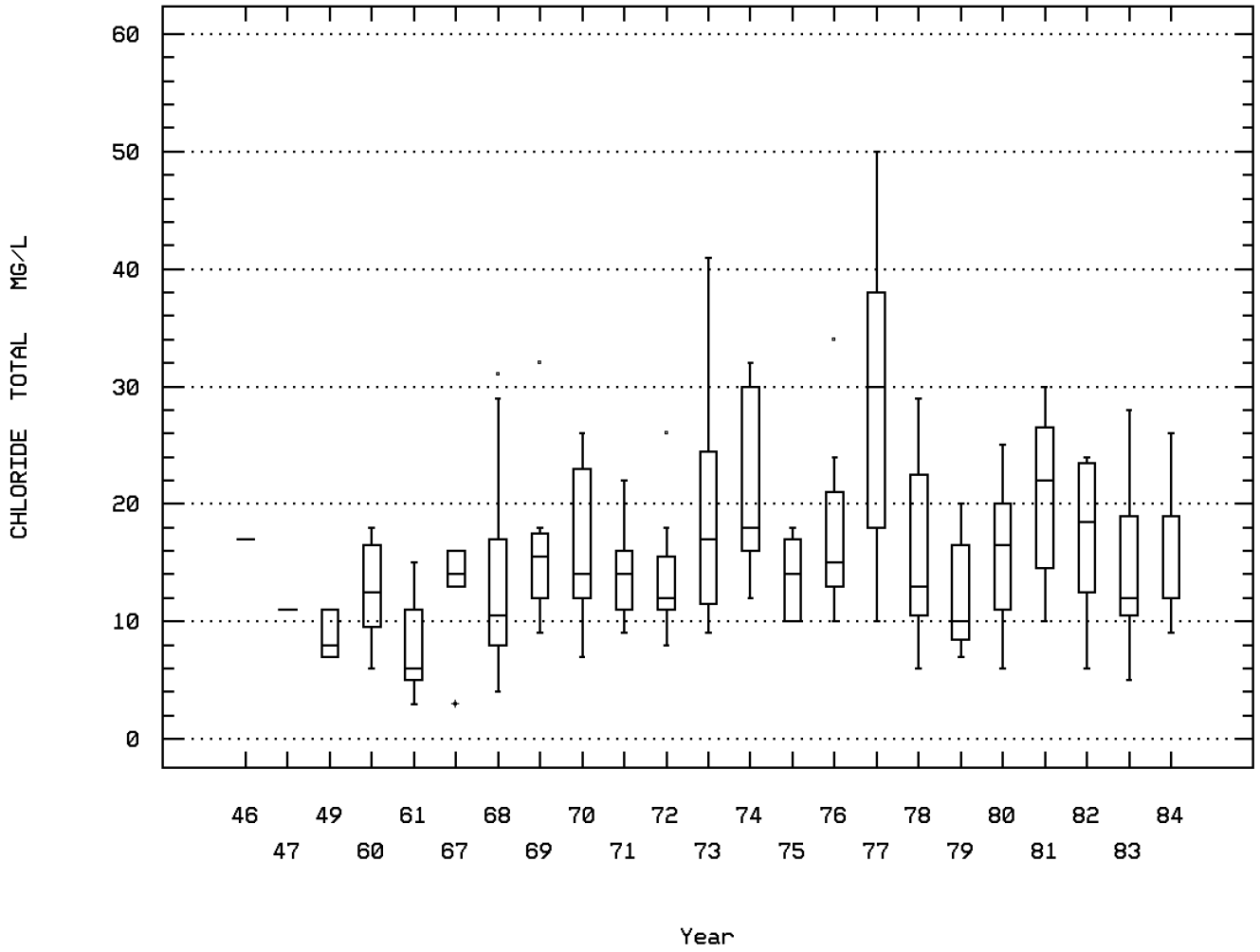
HARDNESS, TOTAL (MG/L AS CACO3)



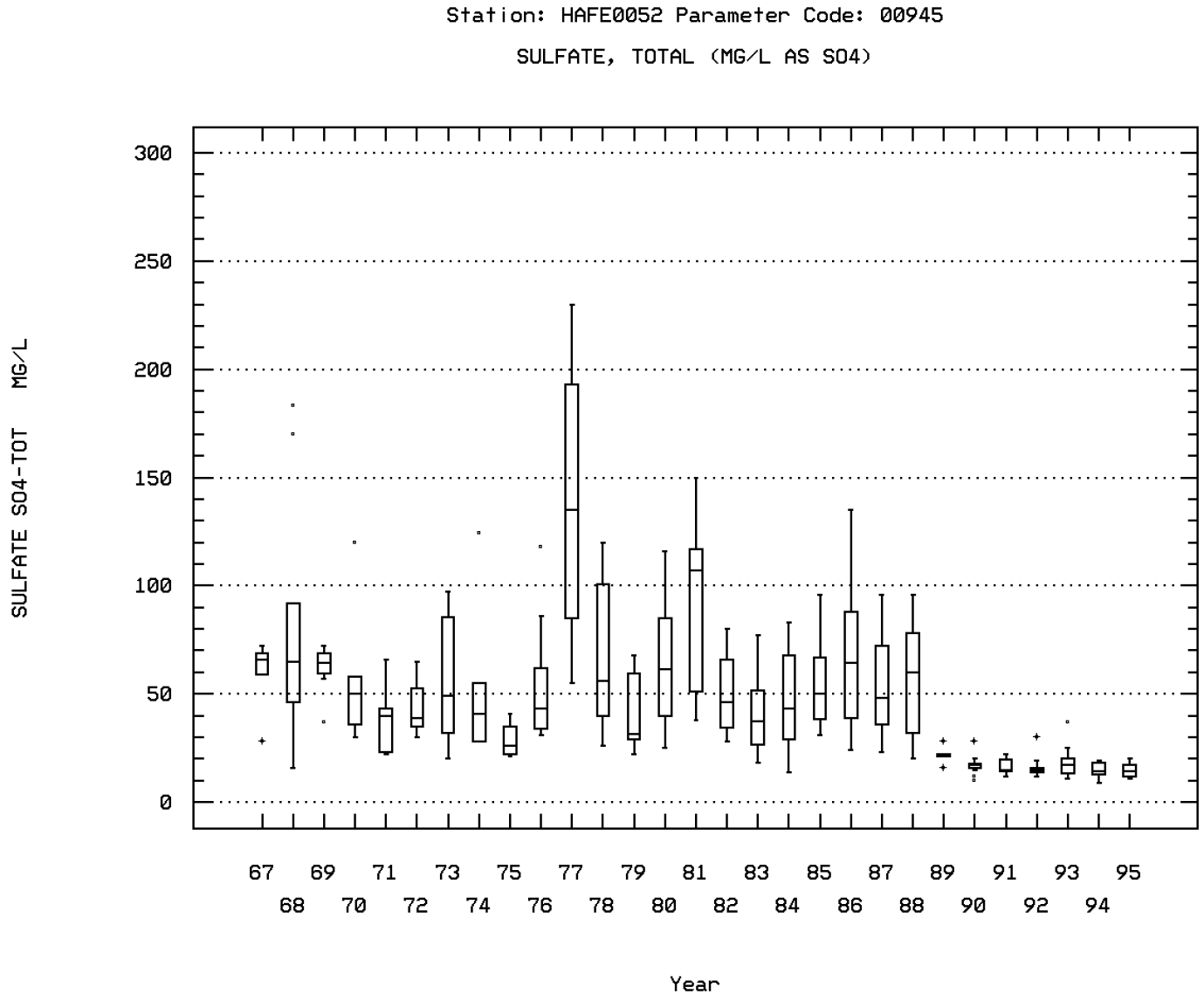
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



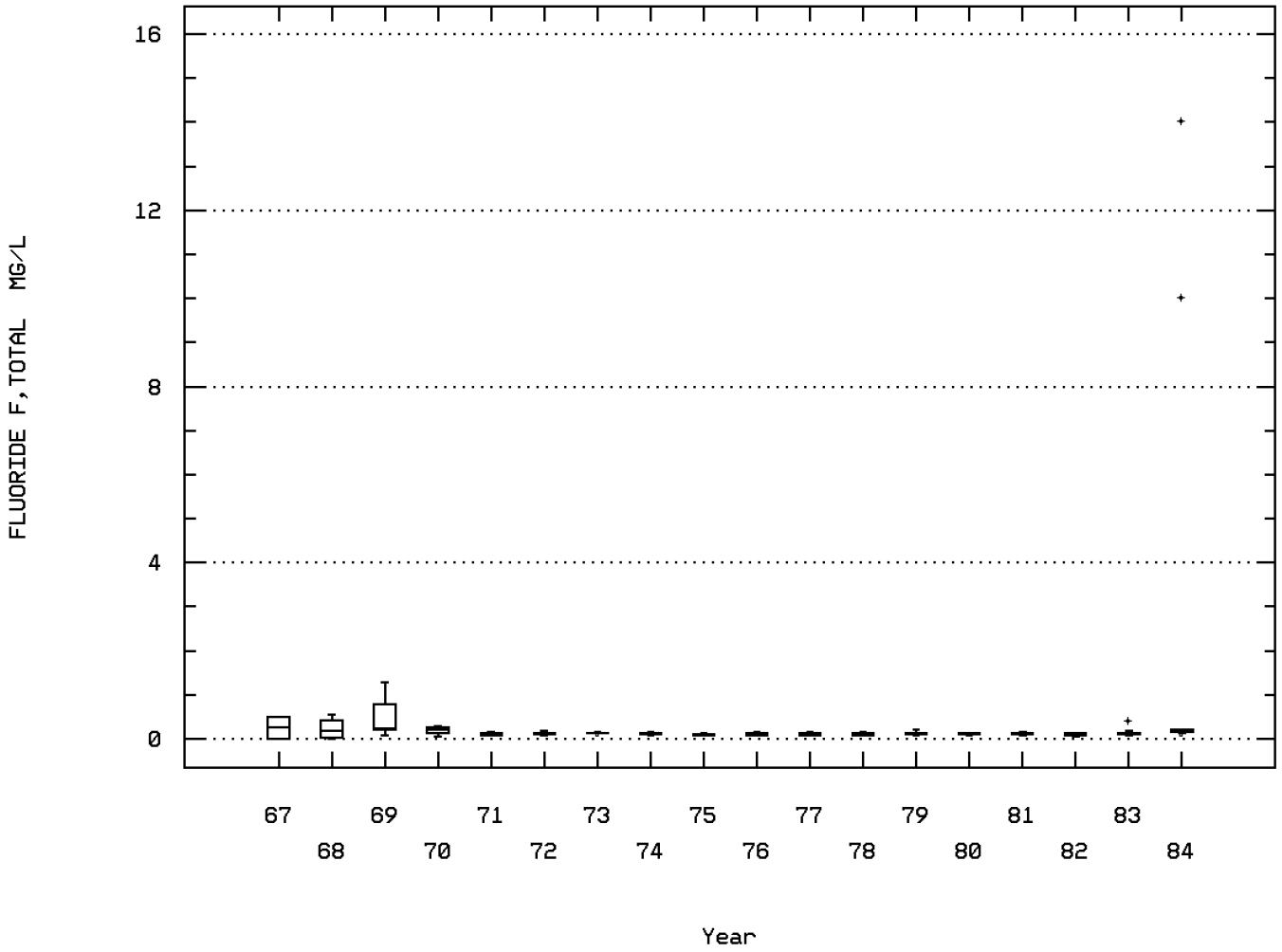
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00951

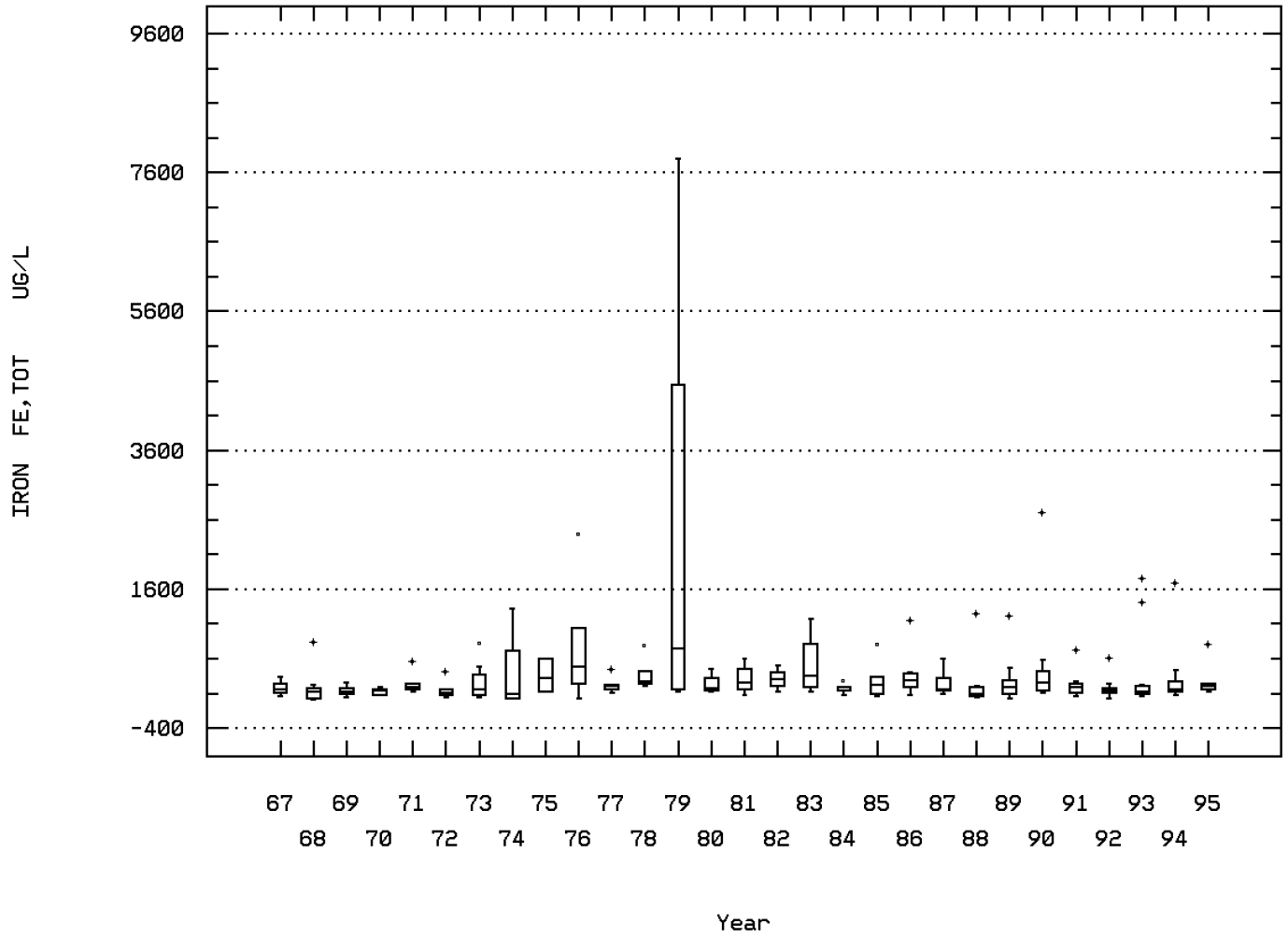
FLUORIDE, TOTAL (MG/L AS F)



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 01045

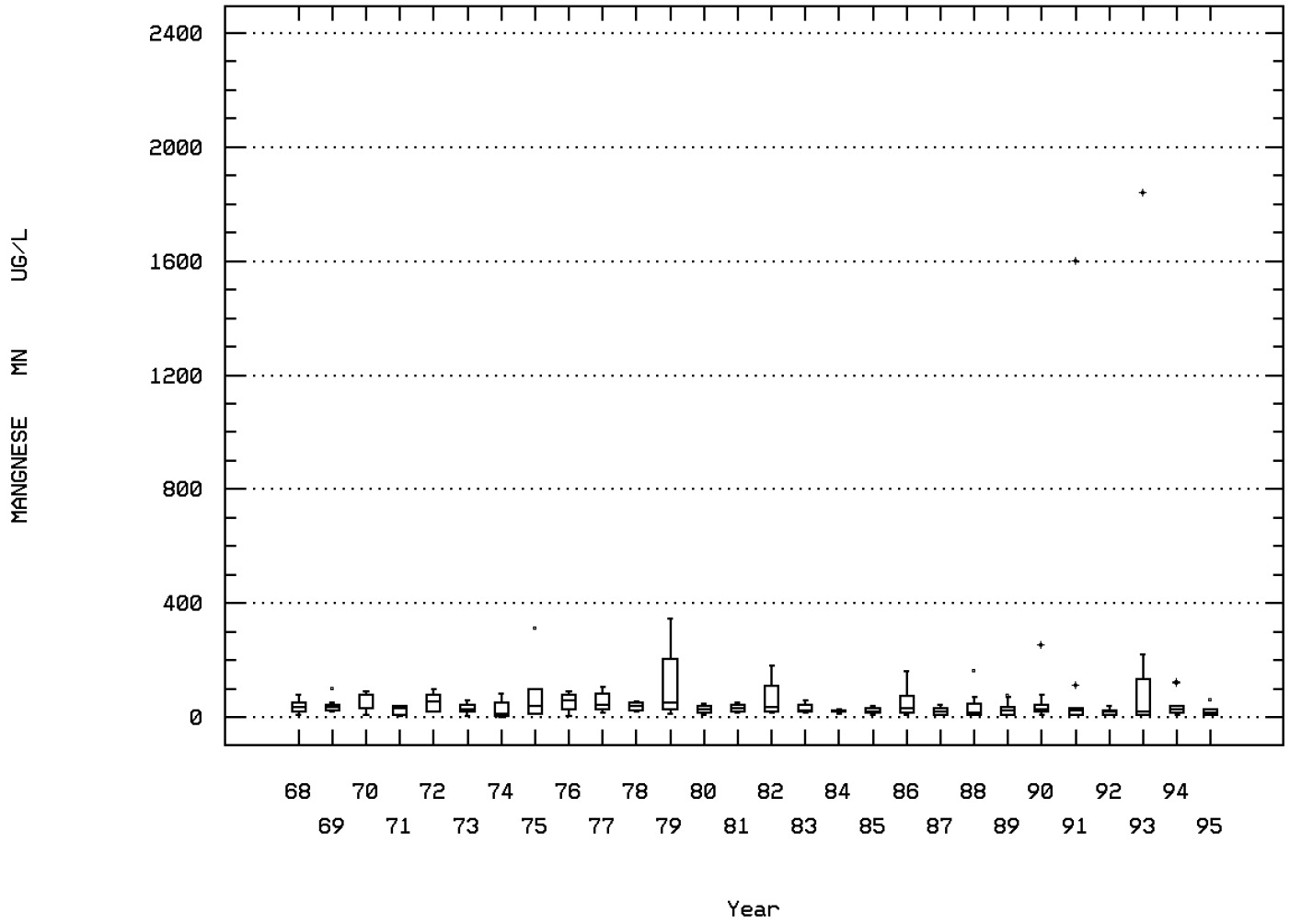
IRON, TOTAL (UG/L AS FE)



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 01055

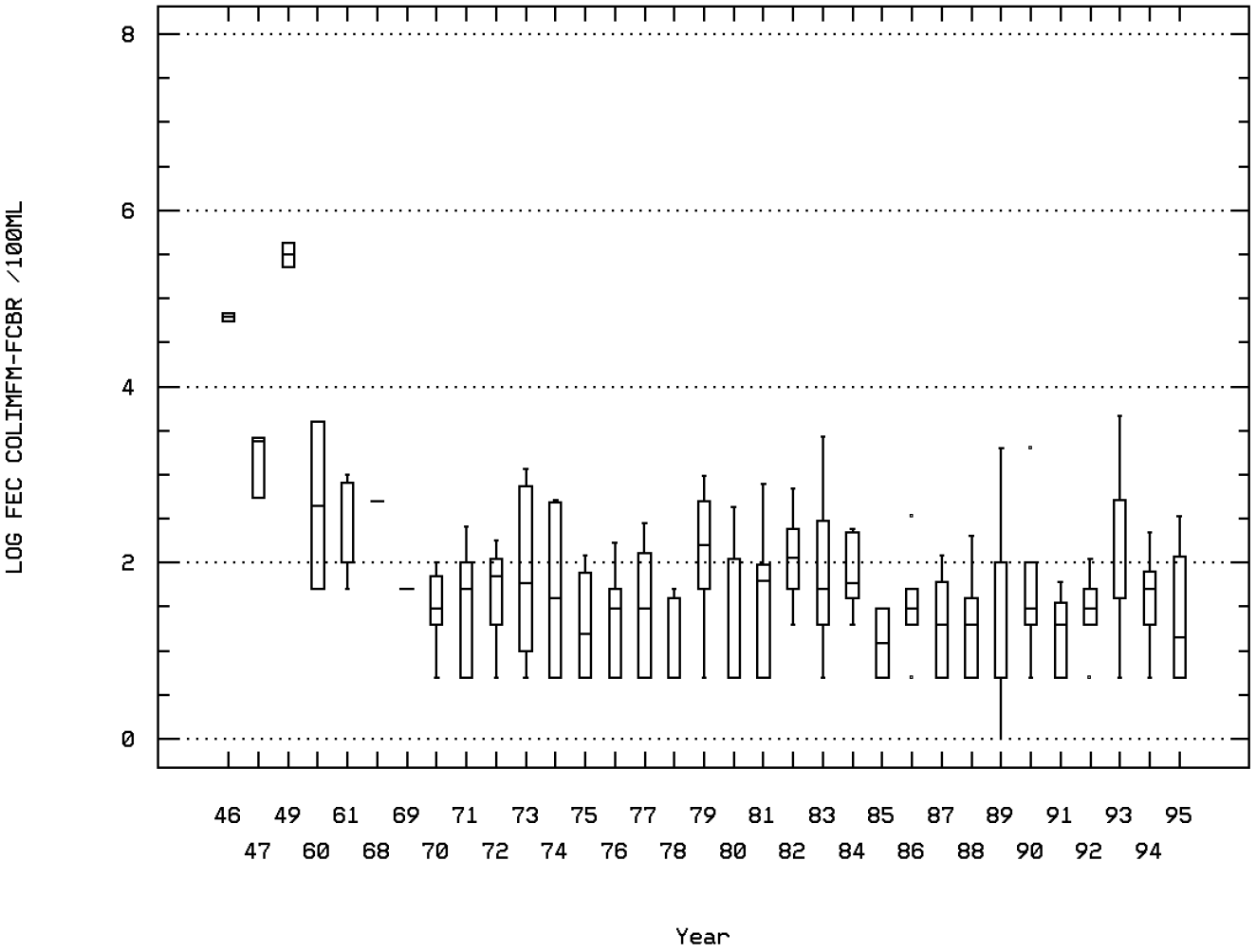
MANGANESE, TOTAL (UG/L AS MN)



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 31616

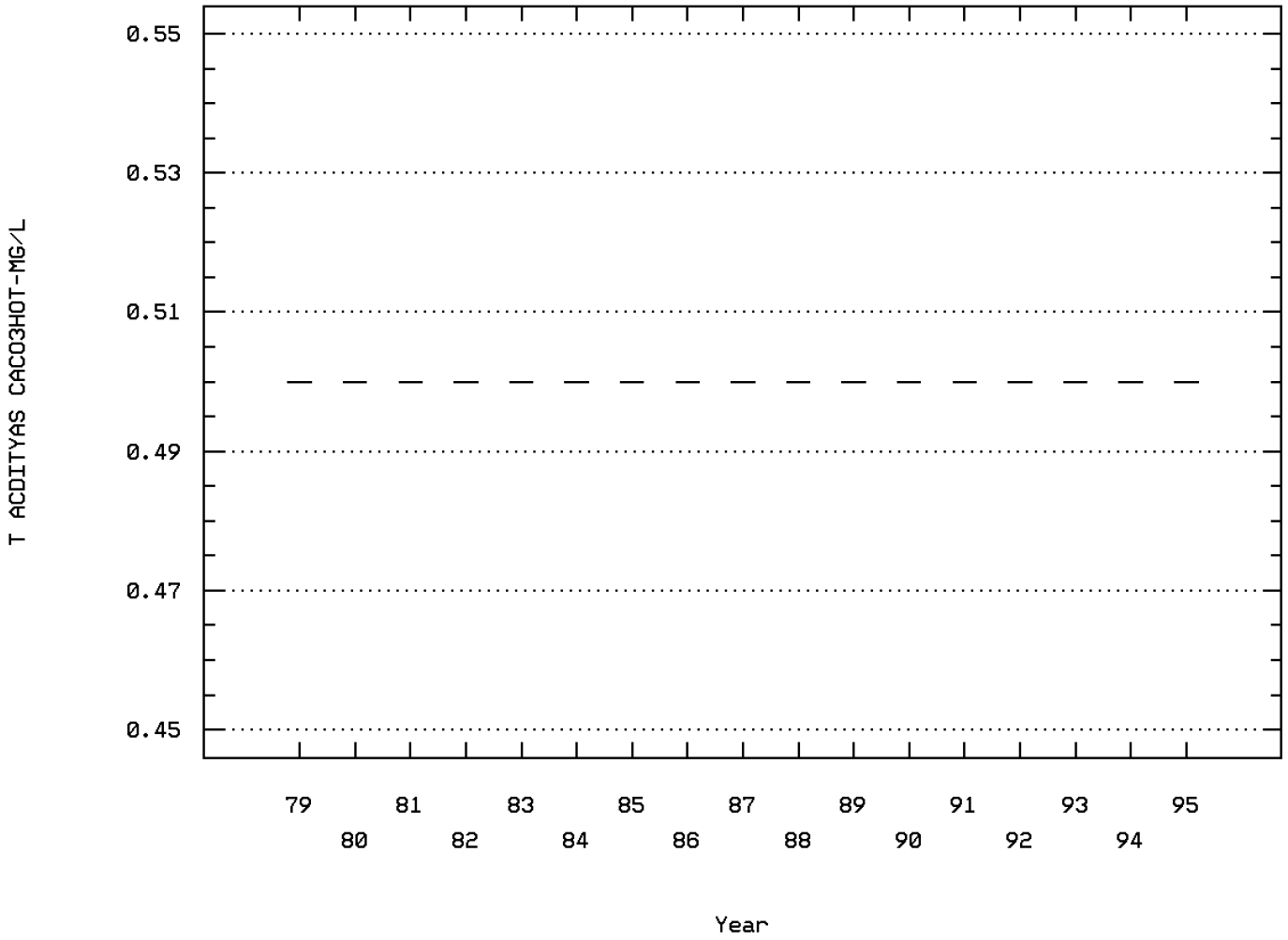
LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 70508

ACIDITY, TOTAL, HOT (MG/L AS CACO3)



Shenandoah River at Harpers Ferry, W. V

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	58	22.05	21.412	31.	8.2	28.243	5.314	13.95	17.85	25.225	28.27
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	30	71.9	71.34	84.2	52.	95.001	9.747	57.3	63.15	80.	83.84
00057	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	64	813.	1403.156	12300.	401.	4668668.102	2160.71	447.5	570.75	1437.75	2180.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	35	709.	836.886	1800.	224.	165212.692	406.464	449.	571.	910.	1646.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/08/60-06/11/74	20	8.5	14.625	49.	1.	220.339	14.844	1.1	5.	22.5	43.6
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	45	6.	7.856	15.	2.5	14.768	3.843	5.	5.	10.	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	28	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	37	380.	433.703	800.	196.	18486.326	135.964	295.2	342.	518.	654.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	70	400.	402.5	740.	200.	14027.935	118.44	250.6	303.75	460.	596.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	35	7.7	7.989	12.	6.	1.39	1.179	6.46	7.4	8.8	9.16
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	48	9.05	9.285	14.1	4.9	3.255	1.804	7.29	7.9	10.775	11.4
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	63	95.	98.77	188.	50.	345.429	18.586	82.8	90.	109.	121.54
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	56	2.3	2.832	8.7	0.2	4.239	2.059	0.4	1.25	3.8	5.99
00340	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	38	9.	13.342	39.	2.	91.528	9.567	2.	8.	19.25	27.5
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	60	8.15	8.177	9.6	6.9	0.369	0.607	7.5	7.8	8.6	9.27
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	60	8.147	7.799	9.6	6.9	0.514	0.717	7.5	7.8	8.6	9.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	60	0.007	0.016	0.126	0.	0.001	0.026	0.001	0.003	0.016	0.032
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	75	8.2	8.221	8.9	7.	0.13	0.361	7.8	8.	8.5	8.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	75	8.2	8.043	8.9	7.	0.162	0.403	7.8	8.	8.5	8.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	75	0.006	0.009	0.1	0.001	0.	0.013	0.002	0.003	0.01	0.016
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	88	129.	128.83	252.	62.	663.89	25.766	97.9	110.5	147.	154.1
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/18/67-06/05/79	8	3.5	3.	6.	0.	5.714	2.39	**	**	**	**
00500p	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	33	271.	316.03	608.	88.	12060.28	109.819	222.4	244.5	398.5	504.2
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/29/60-12/10/74	22	258.	248.136	522.	4.	16932.123	130.123	14.8	212.5	338.75	398.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	80	12.5	29.188	261.	0.5	2468.414	49.683	1.1	6.	26.	56.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	31	0.07	0.078	0.22	0.015	0.002	0.043	0.03	0.05	0.1	0.128
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-07/19/83	17	0.59	1.134	4.6	0.005	1.794	1.339	0.025	0.13	1.52	3.56
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	58	0.435	0.502	1.41	0.05	0.068	0.262	0.2	0.338	0.627	0.88
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	56	0.695	0.656	1.65	0.01	0.17	0.413	0.054	0.335	0.948	1.221
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	58	0.129	0.127	0.362	0.009	0.005	0.073	0.039	0.076	0.162	0.235
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	18	8.	13.611	33.	3.	94.016	9.696	4.8	6.	21.	32.1
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	12	0.001	0.002	0.008	0.001	0.	0.002	0.001	0.001	0.003	0.007
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	58	170.	164.724	296.	20.	2534.238	50.341	111.2	139.5	197.	220.2
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	16	29.5	32.431	90.	7.8	461.474	21.482	9.55	20.4	35.7	71.8
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	16	3.3	2.938	3.6	0.2	0.774	0.88	1.46	2.55	3.4	3.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	59	18.	19.712	50.	3.	94.829	9.738	9.	11.	26.	32.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	73	66.	69.397	230.	9.	2433.687	49.332	15.4	28.	96.	130.6
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	41	0.14	0.148	0.84	0.005	0.016	0.125	0.08	0.1	0.15	0.18
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	10 ##	1.	3.8	15.	1.	23.067	4.803	1.	1.	6.75	14.4
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	33 ##	2.	2.182	6.	1.	0.966	0.983	1.4	2.	2.	3.2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	41 ##	0.5	2.037	11.	0.5	5.392	2.322	0.5	0.5	3.	4.8
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	17 ##	4.	4.588	12.	2.	10.257	3.203	2.	2.	7.	10.4
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	13	8.	7.	16.	2.	20.333	4.509	2.	2.	10.5	14.4
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	55	150.	241.364	2700.	42.	149111.828	386.15	60.	90.	234.	428.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	34 ##	20.	21.912	50.	10.	145.477	12.061	10.	10.	22.5	50.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	58	30.	43.483	250.	10.	1467.658	38.31	10.	20.	54.	84.4
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	11 ##	20.	20.909	30.	20.	9.091	3.015	20.	20.	20.	28.
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	14 ##	2.	3.107	12.	1.	7.622	2.761	1.5	2.	3.625	8.5
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	18	62.	178.944	2250.	22.	267808.997	517.503	23.8	31.75	80.	329.4
01105p	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	39	164.	265.974	2700.	50.	196589.289	443.384	70.	106.	240.	340.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	43	1100.	7411.395	69000.	40.	221373845.626	14878.637	70.	400.	4200.	34600.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	43	3.041	3.095	4.839	1.602	0.787	0.887	1.819	2.602	3.623	4.539
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1244.227								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	69	50.	11557.029	430000.	5.	3474317815.676	58943.344	5.	20.	120.	2000.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	69	1.699	1.871	5.633	0.699	1.166	1.08	0.699	1.301	2.078	3.301
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			74.222								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	17	20.	125.588	770.	5.	48793.382	220.892	5.	5.	165.	506.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	17	1.301	1.445	2.886	0.699	0.594	0.771	0.699	0.699	2.167	2.692

** - Less 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 10/31 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			27.839								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/02/87-06/13/95	19	2.05	2.515	7.08	0.82	2.404	1.551	1.22	1.39	3.16	4.73
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/03/77-06/13/95	29	2.62	13.332	78.21	0.26	482.675	21.97	0.92	1.335	19.95	55.72
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/02/87-06/13/95	19	0.96	1.23	2.87	0.	1.066	1.032	0.	0.23	2.5	2.7
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/02/87-06/13/95	22	1.385	1.435	1.88	1.07	0.034	0.185	1.241	1.328	1.49	1.773
32230	CHLOROPHYLL A (MG/L)	04/02/87-06/13/95	22	0.208	0.421	3.66	0.084	0.554	0.744	0.097	0.15	0.375	0.739
32231	CHLOROPHYLL B (MG/L)	04/02/87-06/13/95	22 ##	0.	0.026	0.13	0.	0.002	0.04	0.	0.	0.053	0.096
32232	CHLOROPHYLL C (MG/L)	04/02/87-06/13/95	22 ##	0.	0.051	0.41	0.	0.01	0.1	0.	0.	0.078	0.192
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	29	287.	291.207	546.	143.	7292.813	85.398	184.	240.5	315.	437.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	45 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	20 ##	0.1	0.183	1.	0.05	0.049	0.222	0.1	0.1	0.1	0.49
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	29	10.	10.534	29.	2.5	34.589	5.881	3.	6.5	14.5	17.

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

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	83	5.5	5.569	16.4	0.	17.472	4.18	0.14	2.5	8.6	11.
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	46	42.35	42.57	66.	32.	53.751	7.332	33.56	36.2	46.9	52.98
00057	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	51	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	77	2090.	2789.312	12500.	489.	5520110.638	2349.492	839.	1261.	3277.5	5376.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	41	1890.	5285.366	128000.	530.	387987629.488	19697.402	826.4	1200.	2910.	4724.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/08/60-06/11/74	29	6.	18.638	120.	0.	687.784	26.226	2.	4.	22.	60.
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	65	5.	7.2	20.	2.5	13.6	3.688	2.5	5.	10.	10.8
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	41	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	63	334.	333.317	599.	157.	8130.64	90.17	211.2	274.	383.	455.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	105	315.	331.305	650.	137.	9800.522	98.998	221.8	259.	390.	473.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	54	11.7	11.433	14.5	1.3	3.592	1.895	10.	10.775	12.525	13.3
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	62	12.45	12.535	17.7	7.2	3.664	1.914	10.8	11.475	13.5	14.94
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	79	95.4	96.061	134.6	53.8	157.282	12.541	84.	91.	100.	113.2
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	57	2.	2.108	5.2	0.05	1.157	1.075	0.78	1.5	2.8	3.7
00340	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	63	8.	10.087	43.	0.5	75.98	8.717	2.	4.	12.	17.2
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	90	8.	8.049	9.4	6.	0.568	0.754	7.01	7.7	8.525	9.2
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	90	8.	7.328	9.4	6.	1.094	1.046	7.01	7.7	8.525	9.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	90	0.01	0.047	1.	0.	0.024	0.154	0.001	0.003	0.02	0.098
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	116	8.1	8.098	9.	7.	0.124	0.353	7.7	7.9	8.3	8.53
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	116	8.1	7.922	9.	7.	0.156	0.395	7.7	7.9	8.3	8.53
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	116	0.008	0.012	0.1	0.001	0.	0.016	0.003	0.005	0.013	0.02
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	123	118.	115.774	202.	0.2	1159.028	34.044	72.4	99.	138.	152.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/18/67-06/05/79	24	2.	2.604	7.	0.5	3.108	1.763	1.	1.	3.	6.
00500p	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	45	232.	248.533	477.	141.	4935.755	70.255	172.8	204.	288.	366.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/29/60-12/10/74	30	197.	202.333	380.	40.	6132.023	78.307	85.6	149.75	251.75	322.1
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	121	7.	19.149	198.	0.	1112.432	33.353	0.5	2.	16.	63.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	45	0.07	0.464	17.	0.01	6.361	2.522	0.03	0.045	0.09	0.23
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-07/19/83	22	1.305	1.656	6.2	0.52	1.899	1.378	0.652	0.898	1.555	4.32
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	91	0.32	0.368	1.17	0.05	0.041	0.204	0.16	0.23	0.45	0.648
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	91	1.29	1.313	4.2	0.34	0.263	0.513	0.75	0.99	1.54	1.858
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	91	0.089	0.112	0.37	0.011	0.007	0.085	0.023	0.046	0.16	0.232
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	26	13.	15.577	39.	2.	142.174	11.924	2.7	4.75	29.5	34.3
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	19	0.002	0.003	0.005	0.001	0.	0.002	0.001	0.001	0.004	0.005
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	74	158.	157.409	250.	0.3	1788.596	42.292	105.	129.5	184.	208.
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	21	11.	14.224	38.	5.3	87.744	9.367	5.34	7.6	19.5	33.68
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	20	1.8	2.02	3.9	1.1	0.329	0.574	1.51	1.7	2.2	2.68
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	75	14.	15.307	30.	3.	38.864	6.234	8.	11.	18.	25.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	108	37.	44.241	148.	11.	874.745	29.576	15.	21.25	57.	85.3
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	65	0.12	0.358	14.	0.005	2.968	1.723	0.07	0.09	0.13	0.33

** - Less 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: 11/01 to 3/20 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	15 ##	1.	2.3	14.	1.	11.707	3.422	1.	1.	1.5	8.6
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	48 ##	2.	2.375	12.	1.	3.25	1.803	1.5	2.	2.	2.2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	60 ##	0.5	1.633	6.	0.5	2.948	1.717	0.5	0.5	3.	4.9
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	24 ##	2.	5.208	30.	2.	44.781	6.692	2.	2.	4.	16.
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	22	6.5	7.636	18.	2.	23.576	4.855	2.	3.5	12.	16.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	87	160.	284.897	1680.	20.	117254.21	342.424	63.2	102.	280.	814.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	50 ##	20.	19.04	74.	10.	135.182	11.627	10.	10.	20.	30.
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	92	20.	68.38	1840.	4.	63455.953	251.905	10.	10.	31.5	78.6
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	13 ##	20.	20.	40.	10.	50.	7.071	10.	20.	20.	32.
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	17 ##	2.	3.235	10.	1.	9.066	3.011	1.	2.	3.	10.
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	24	46.	85.125	440.	5.	8729.332	93.431	20.	25.5	114.5	186.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	62	144.	302.	4600.	20.	377145.574	614.122	59.8	100.	240.	617.2
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	67	210.	2159.328	74000.	5.	85179291.588	9229.263	18.	50.	1200.	3400.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	67	2.322	2.398	4.869	0.699	0.777	0.881	1.241	1.699	3.079	3.531
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			249.894								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	112	10.	150.897	4600.	0.5	344105.496	586.605	5.	5.	60.	271.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	112	1.	1.34	3.663	-0.301	0.54	0.735	0.699	0.699	1.778	2.432
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			21.889								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	18 ##	5.	32.5	310.	5.	5197.794	72.096	5.	5.	35.	94.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	18 ##	0.699	1.05	2.491	0.699	0.3	0.547	0.699	0.699	1.533	1.91
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			11.22								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	43	226.	233.93	407.	133.	5380.066	73.349	147.2	179.	281.	349.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	72 ##	0.5	0.507	1.	0.5	0.003	0.059	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	28 ##	0.1	0.125	0.4	0.1	0.005	0.07	0.1	0.1	0.1	0.21
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	41	6.	9.312	50.	1.	107.986	10.392	2.04	3.	9.	27.2

** - 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 #3: 3/21 to 7/31 - Station HAFE0052

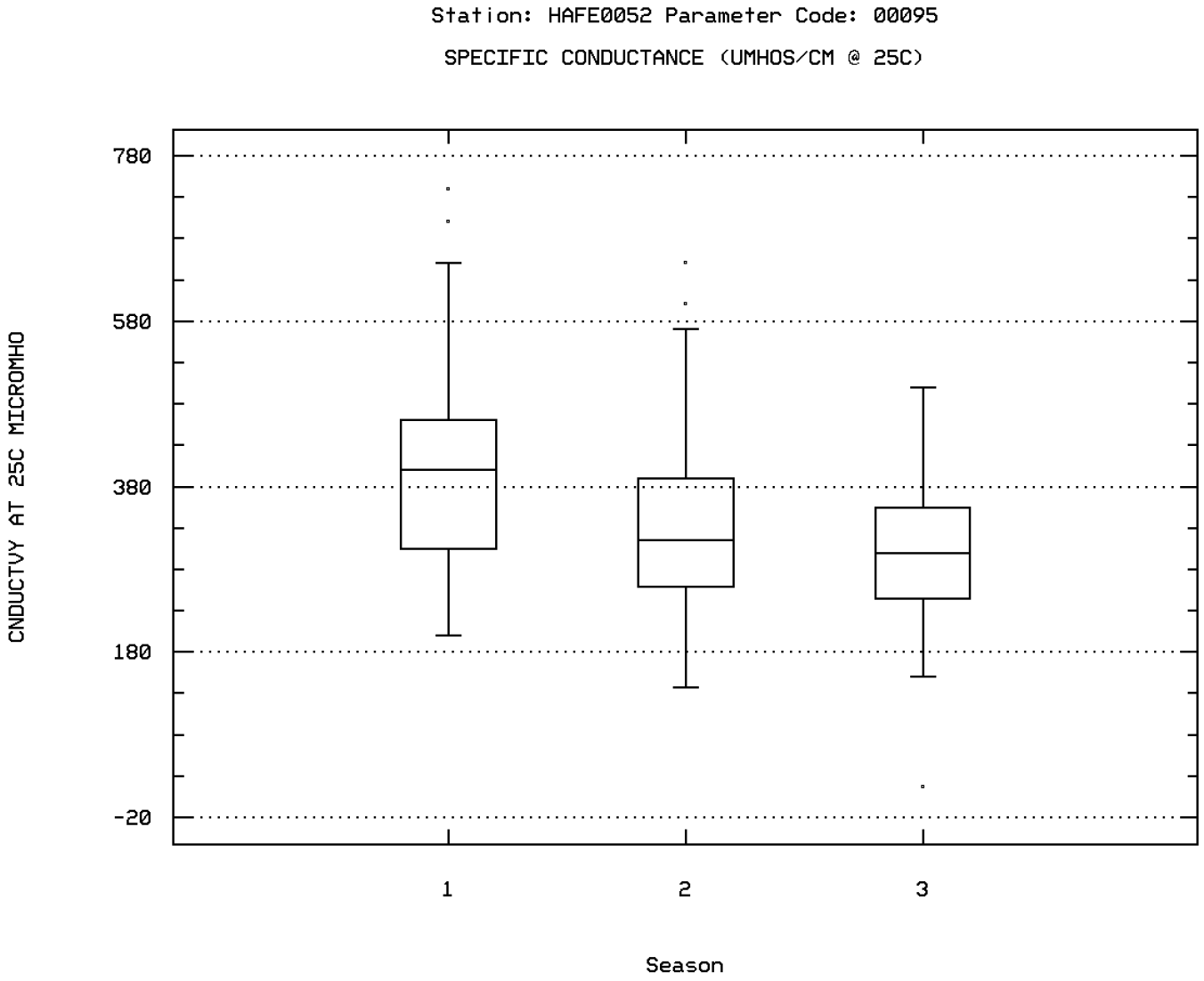
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-06/13/95	76	19.8	19.195	30.9	5.1	37.545	6.127	10.17	14.65	24.45	26.51
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	40	70.8	69.653	88.2	50.5	115.21	10.734	54.59	59.575	79.975	83.45
00057	FLOW, INDICATES IT HAS BEEN CHECKED	01/02/80-09/01/92	72	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-09/01/92	93	2220.	3303.14	20200.	472.	12890822.013	3590.379	736.4	1251.	3690.	8121.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-03/08/93	43	1790.	2979.86	15300.	388.	9483765.171	3079.572	629.2	912.	3840.	5472.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/08/60-06/11/74	28	20.	23.696	67.	1.	381.58	19.534	4.9	7.	35.5	62.3
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	56	5.5	7.884	25.	2.5	21.764	4.665	2.5	5.	10.	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	36	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-06/13/95	61	320.	322.393	510.	90.	6727.543	82.022	233.	273.5	368.	440.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-06/13/95	96	300.	300.646	500.	17.	7324.968	85.586	200.	245.	357.5	403.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-06/13/95	54	8.4	8.644	13.8	5.4	2.368	1.539	6.9	7.575	9.5	10.75
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	49	9.3	9.312	12.4	6.2	1.446	1.203	7.7	8.55	10.2	10.9
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-06/03/92	72	94.	96.706	166.	71.	196.706	14.025	83.18	88.925	102.225	113.75
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	59	2.3	3.004	10.4	0.05	5.17	2.274	0.7	1.5	4.2	5.9
00340	COD, .25N K2CR2O7 MG/L	06/07/77-06/22/94	55	8.	11.045	44.	0.2	81.352	9.02	2.	4.	16.	26.4
00400p	PH (STANDARD UNITS)	09/18/46-06/13/95	77	7.9	8.066	9.5	7.	0.293	0.541	7.4	7.7	8.45	8.7
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-06/13/95	77	7.9	7.803	9.5	7.	0.363	0.602	7.4	7.7	8.45	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-06/13/95	77	0.013	0.016	0.1	0.	0.	0.018	0.002	0.004	0.02	0.04
00403p	PH, LAB, STANDARD UNITS SU	07/17/67-06/13/95	101	8.1	8.12	9.2	7.1	0.155	0.394	7.6	7.9	8.4	8.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-06/13/95	101	8.1	7.936	9.2	7.1	0.19	0.435	7.6	7.9	8.4	8.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-06/13/95	101	0.008	0.012	0.079	0.001	0.	0.014	0.003	0.004	0.013	0.025
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-06/13/95	109	110.	110.028	215.	15.	680.305	26.083	78.	95.	128.	138.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/18/67-06/05/79	17	2.	2.265	5.	0.5	1.566	1.251	0.9	1.	3.	4.2
00500p	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	38	228.	235.053	453.	169.	3439.727	58.649	173.9	190.75	253.25	278.5
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/29/60-12/10/74	27	193.	181.222	261.	35.	2255.795	47.495	135.4	150.	215.	238.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/29/60-06/13/95	107	19.	36.687	563.	0.5	6130.262	78.296	4.	10.	34.	60.4

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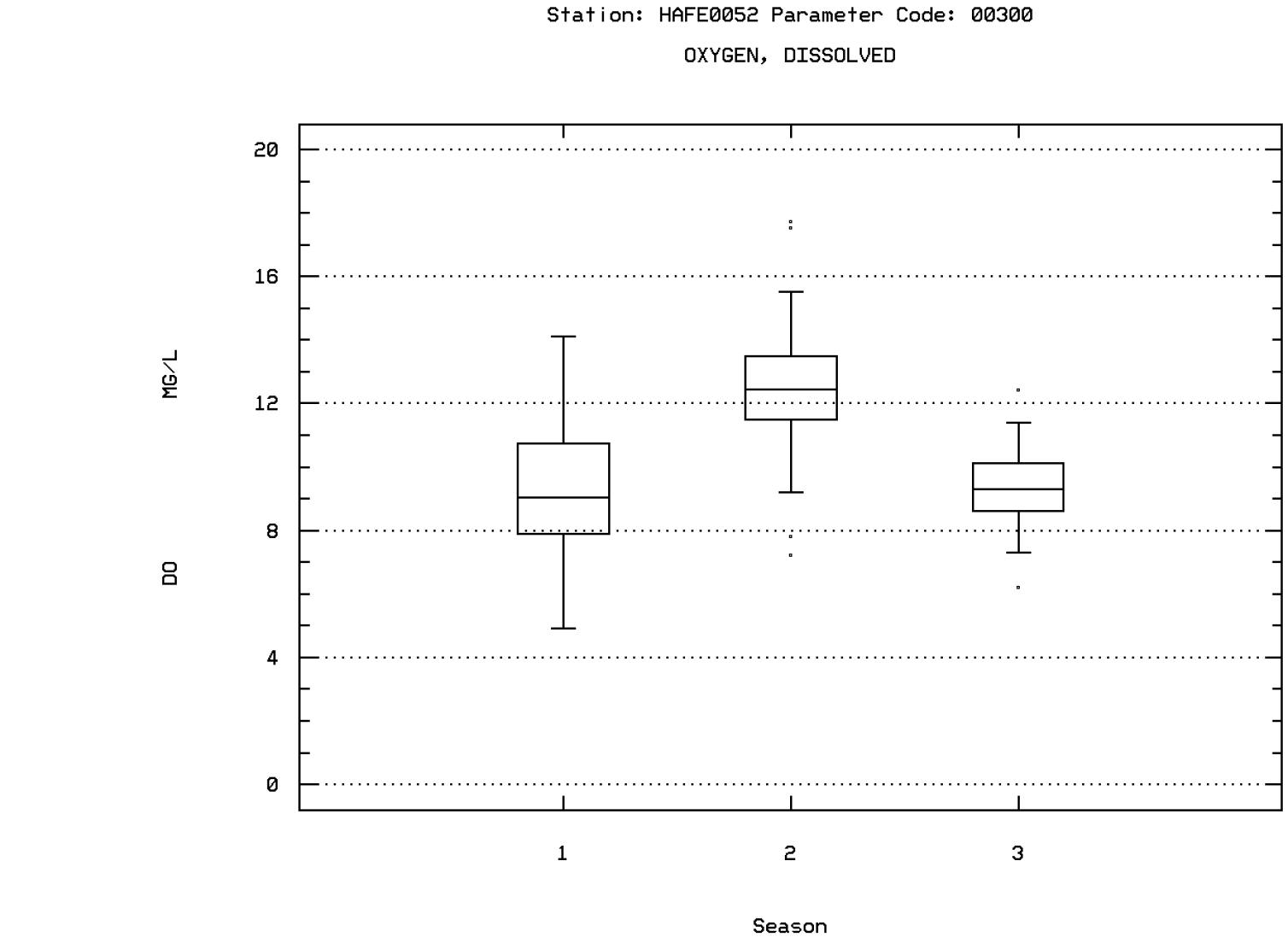
Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	36	0.065	0.073	0.17	0.02	0.001	0.033	0.037	0.05	0.1	0.12
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-07/19/83	22	0.52	1.039	4.9	0.05	2.049	1.431	0.07	0.115	1.1	4.14
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-04/18/95	77	0.41	0.462	1.1	0.05	0.053	0.23	0.218	0.3	0.555	0.86
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-06/13/95	80	0.99	0.954	1.88	0.01	0.219	0.468	0.253	0.67	1.33	1.58
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-06/13/95	79	0.096	0.137	1.5	0.013	0.031	0.175	0.041	0.068	0.15	0.245
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/27/76-10/02/84	21	7.	10.952	32.	3.	63.948	7.997	4.	4.5	17.5	23.2
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	9	0.002	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.004	0.004
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	61	138.	141.18	210.	80.	993.517	31.52	106.	116.	158.	192.8
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	15	10.4	12.167	25.	5.4	32.232	5.677	5.52	8.	16.	21.76
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	12	2.	2.1	3.6	1.1	0.538	0.734	1.22	1.55	2.425	3.51
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	64	12.	13.406	34.	5.	40.182	6.339	6.	9.	16.	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-06/13/95	98	32.	39.439	150.	11.	660.599	25.702	14.9	19.75	51.25	66.2
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	51	0.12	0.346	10.	0.005	1.931	1.39	0.08	0.09	0.15	0.25
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	12 ##	1.5	5.167	15.	1.	35.061	5.921	1.	1.	11.75	15.
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	45 ##	2.	2.233	10.	1.	1.882	1.372	1.8	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	52 ##	0.5	1.529	9.	0.5	3.171	1.781	0.5	0.5	3.	4.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	13 ##	2.	45.846	560.	2.	23870.308	154.5	2.	2.	4.	340.
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	14	7.	9.179	28.	0.5	63.139	7.946	1.25	3.5	13.	24.
01045p	IRON, TOTAL (UG/L AS FE)	07/17/67-06/13/95	76	209.	409.079	7800.	5.	866443.86	930.83	80.	140.	360.	600.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	48 ##	20.	18.646	50.	10.	92.063	9.595	10.	10.	20.	30.2
01055p	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-06/13/95	84	35.5	48.452	344.	2.	2333.239	48.304	17.	22.	56.	91.
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	5 ##	20.	52.	180.	20.	5120.	71.554	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	12 ##	2.	3.75	10.	1.	11.114	3.334	1.	1.	5.	10.
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	15	38.	53.567	168.	0.5	2716.317	52.118	3.2	24.	52.	163.2
01105p	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-06/13/95	52	170.	216.962	1294.	10.	42227.998	205.495	51.6	102.5	277.	413.6
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	52	1000.	7781.769	68000.	5.	264222673.946	16254.928	50.	192.5	6175.	33700.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	52	3.	2.965	4.833	0.699	1.075	1.037	1.699	2.284	3.785	4.505
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			923.124								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	89	40.	173.573	3100.	5.	233006.566	482.708	5.	20.	100.	300.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-06/13/95	89	1.602	1.653	3.491	0.699	0.416	0.645	0.699	1.301	2.	2.477
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			44.963								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	20	35.	70.25	230.	5.	6043.355	77.739	5.	6.25	125.	210.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	20	1.54	1.514	2.362	0.699	0.371	0.609	0.699	0.774	2.096	2.322
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			32.623								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/02/87-06/13/95	30	4.05	6.003	34.9	1.2	54.384	7.375	1.334	2.495	6.198	9.215
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	05/03/77-06/13/95	48	4.345	13.684	123.9	0.53	580.148	24.086	1.546	2.393	11.24	43.42
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/02/87-06/13/95	30	1.88	3.18	12.7	0.22	9.318	3.053	0.713	1.16	4.133	8.401
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	04/02/87-06/13/95	34	1.43	1.406	1.67	1.21	0.013	0.114	1.265	1.308	1.493	1.56
32230	CHLOROPHYLL A (MG/L)	04/02/87-06/13/95	34	0.484	0.704	3.2	0.116	0.492	0.702	0.162	0.283	0.848	1.705
32231	CHLOROPHYLL B (MG/L)	04/02/87-06/13/95	34	0.02	0.077	0.71	0.	0.025	0.159	0.	0.	0.07	0.33
32232	CHLOROPHYLL C (MG/L)	04/02/87-06/13/95	34	0.023	0.04	0.161	0.	0.002	0.045	0.	0.	0.07	0.118
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	34	191.5	206.324	399.	115.	4920.347	70.145	138.5	149.75	241.5	334.5
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-06/13/95	65 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	16 ##	0.1	0.106	0.2	0.1	0.001	0.025	0.1	0.1	0.1	0.13
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	35	11.	19.457	140.	2.1	756.615	27.507	3.76	7.	23.	37.2

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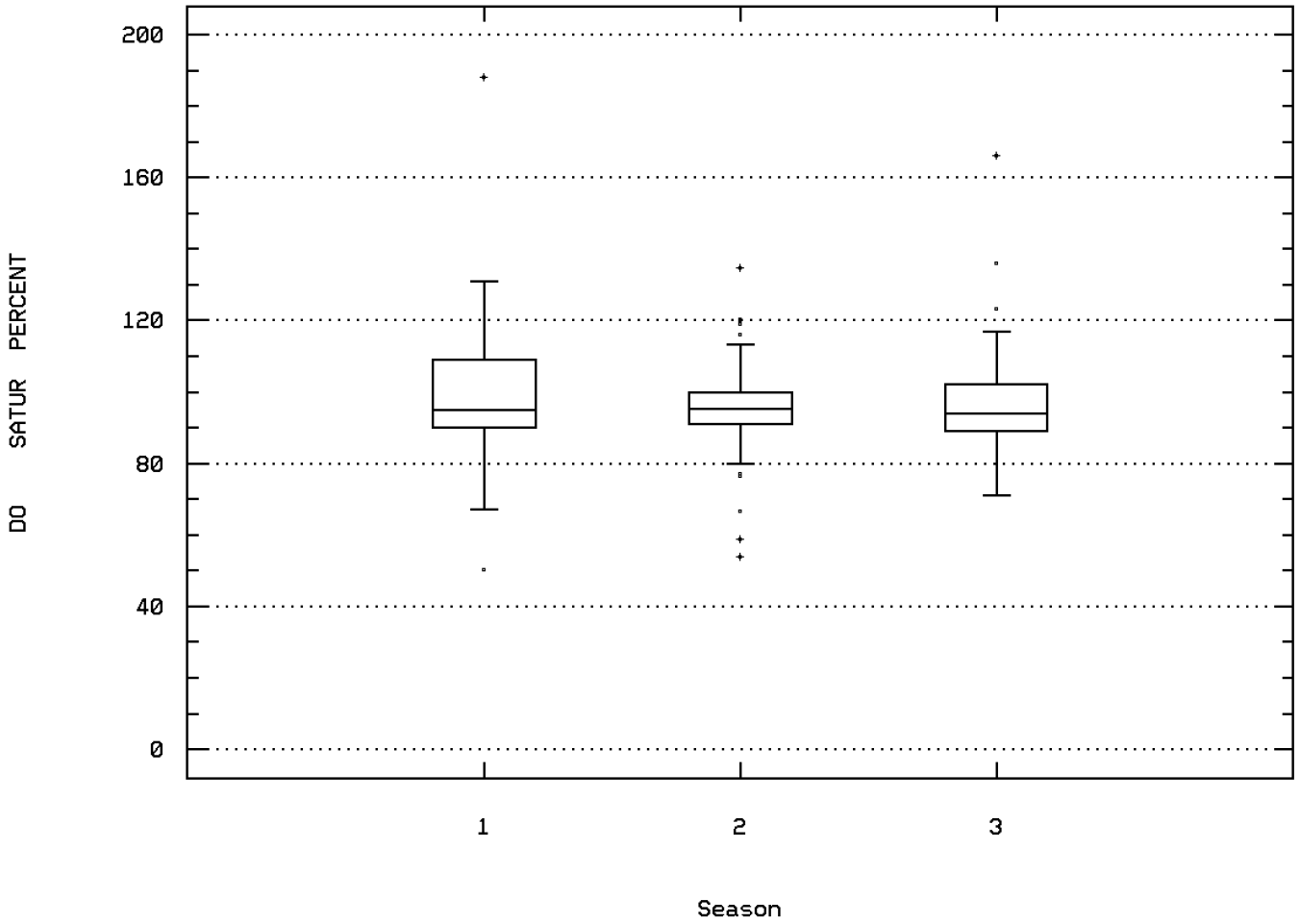
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00301

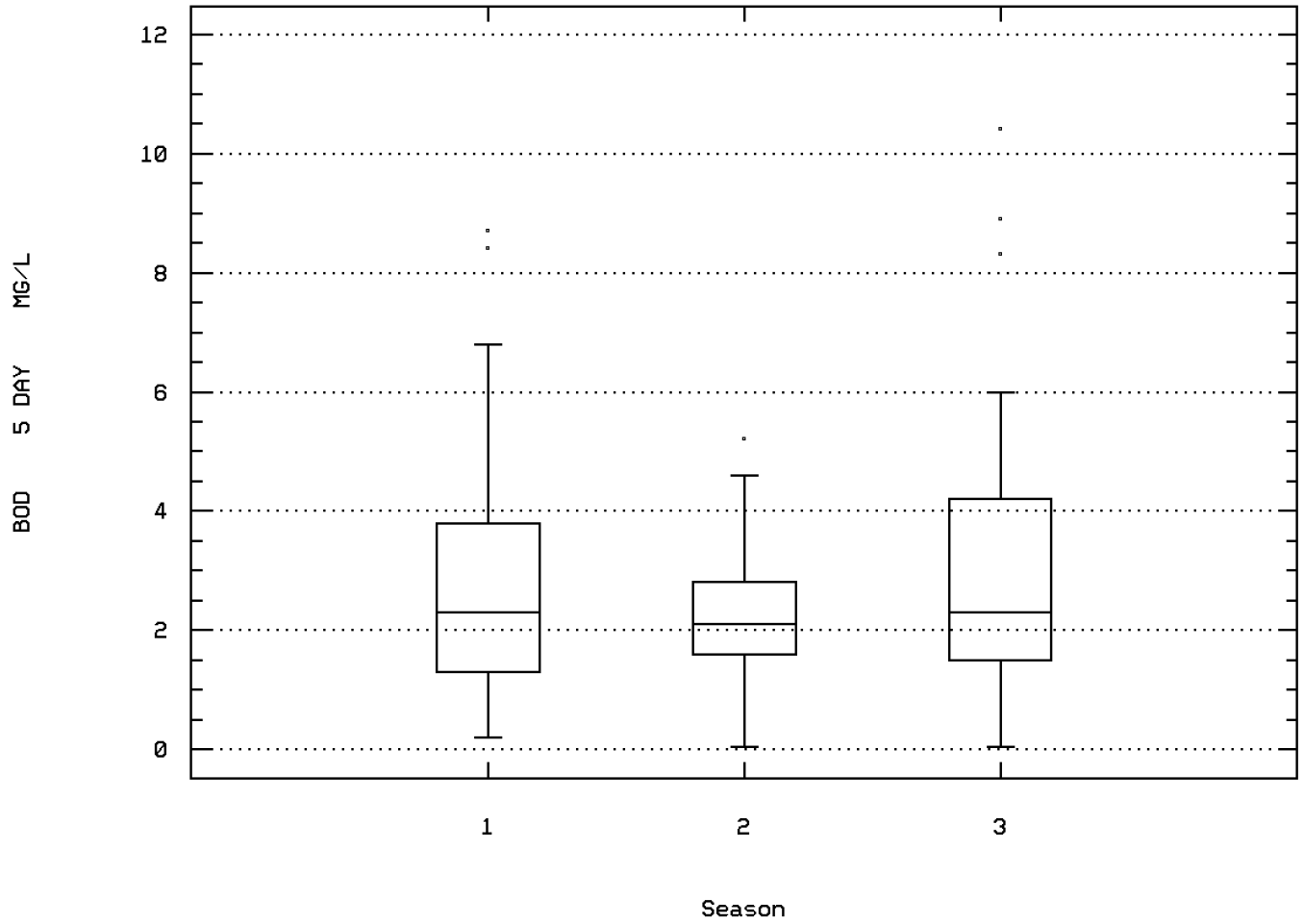
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



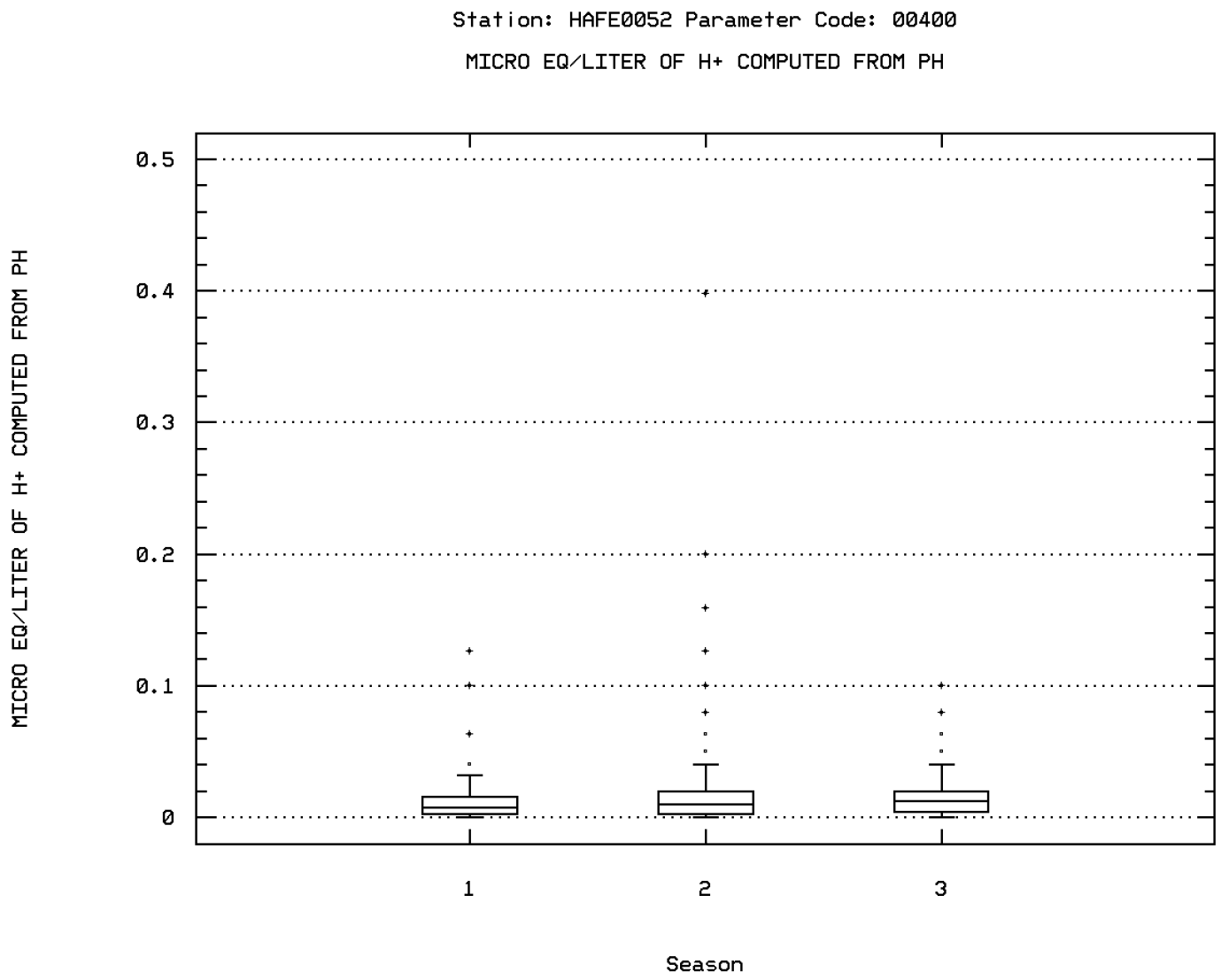
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00310

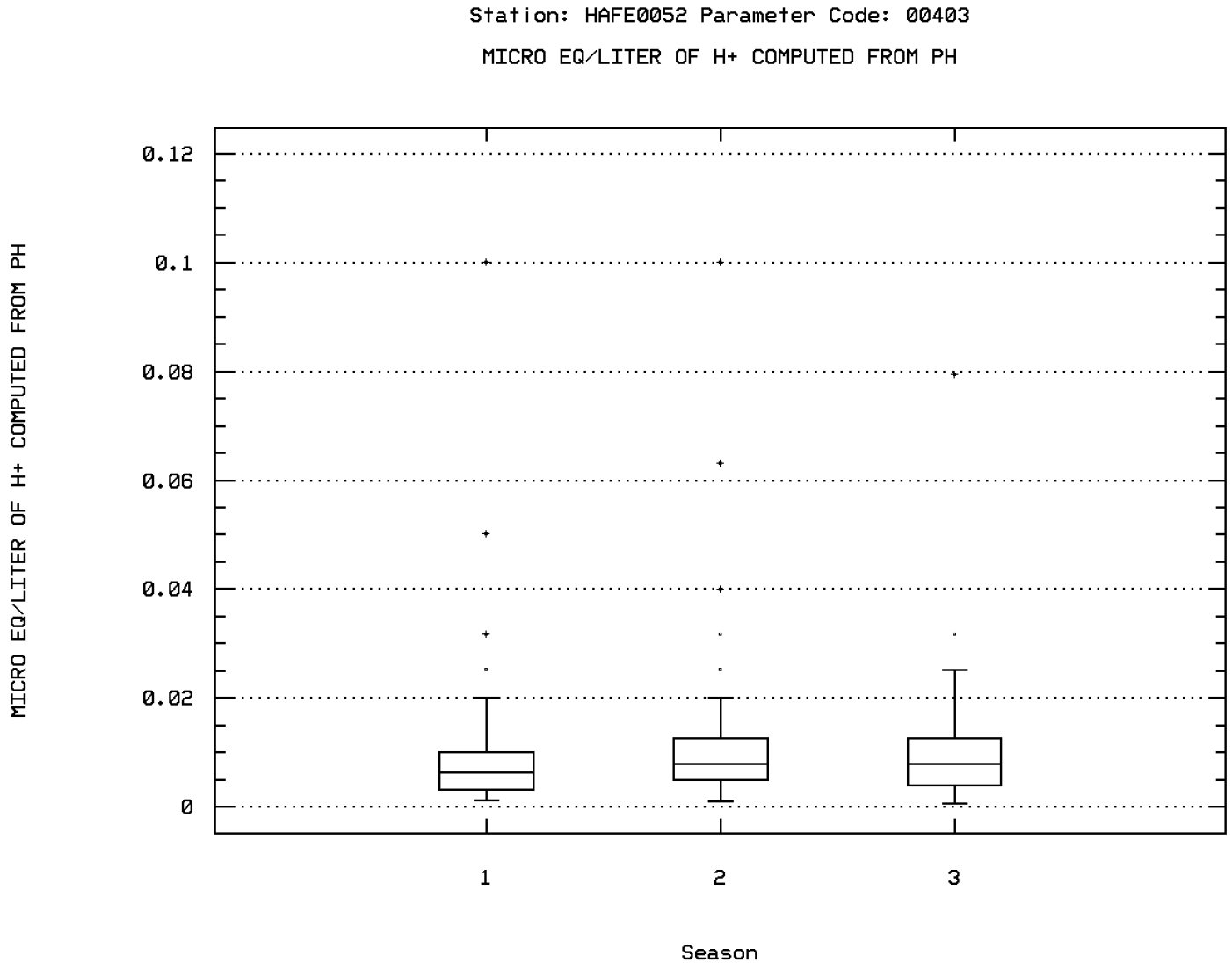
BOD, 5 DAY, 20 DEG C



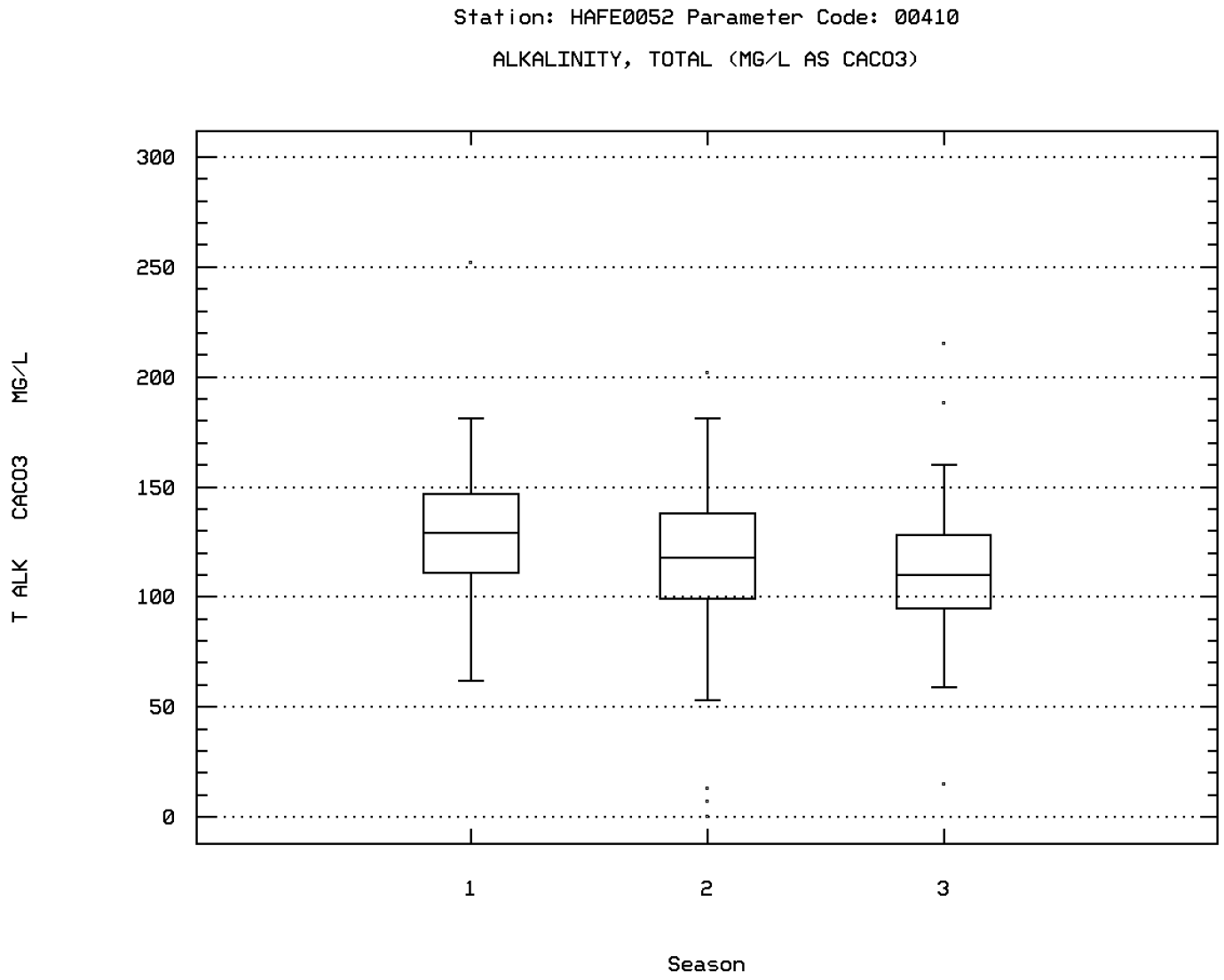
Shenandoah River at Harpers Ferry, W. V



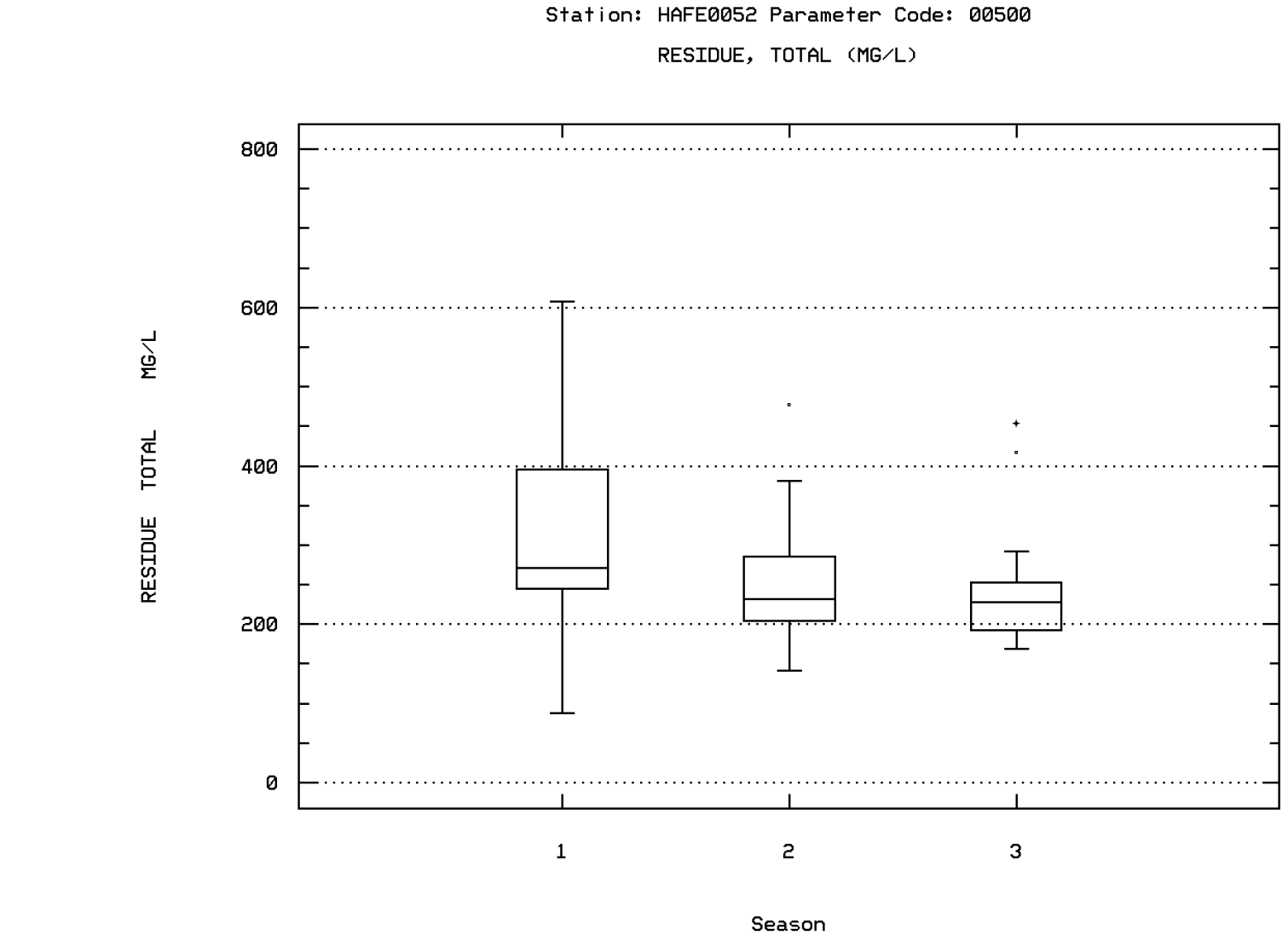
Shenandoah River at Harpers Ferry, W. V



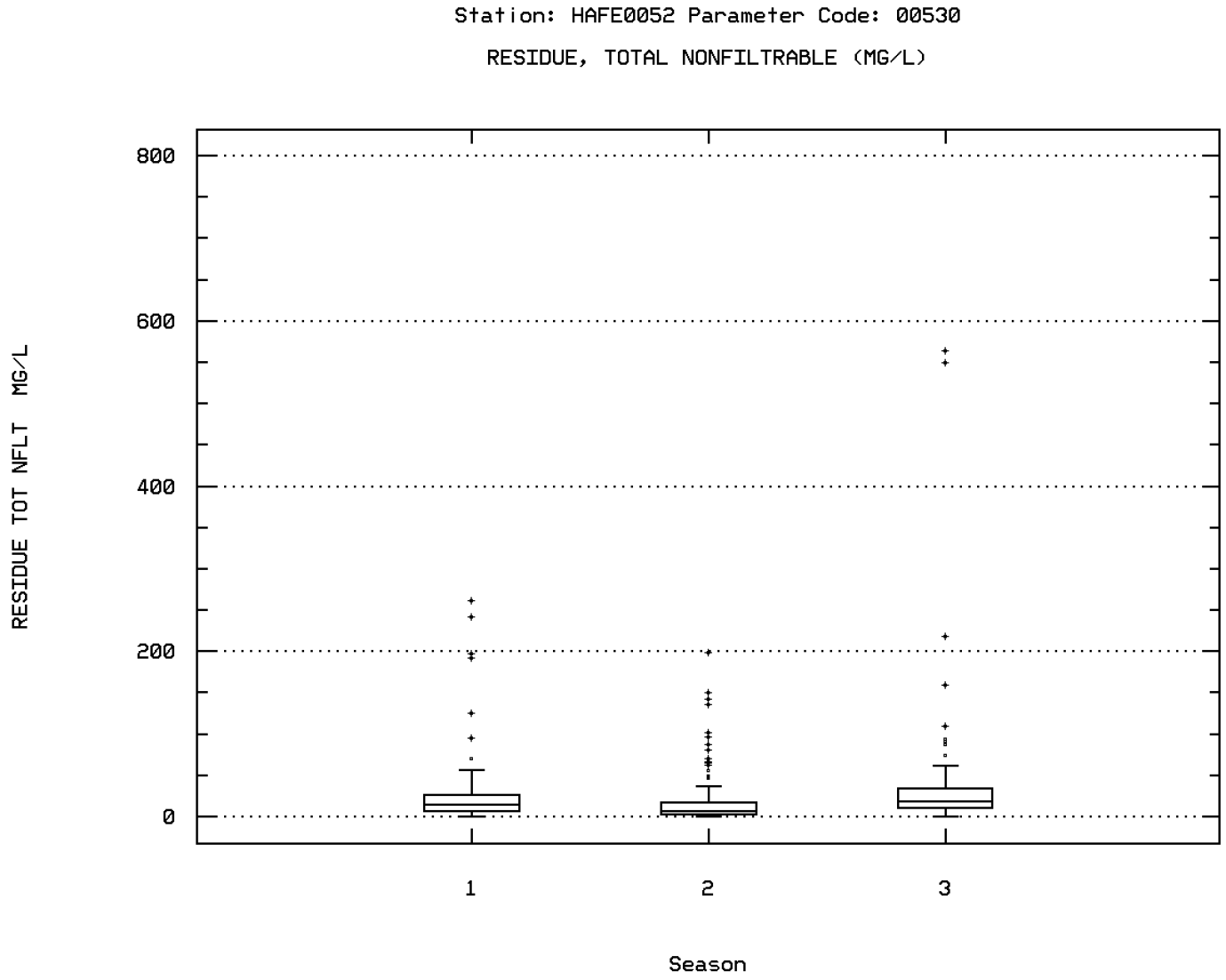
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V



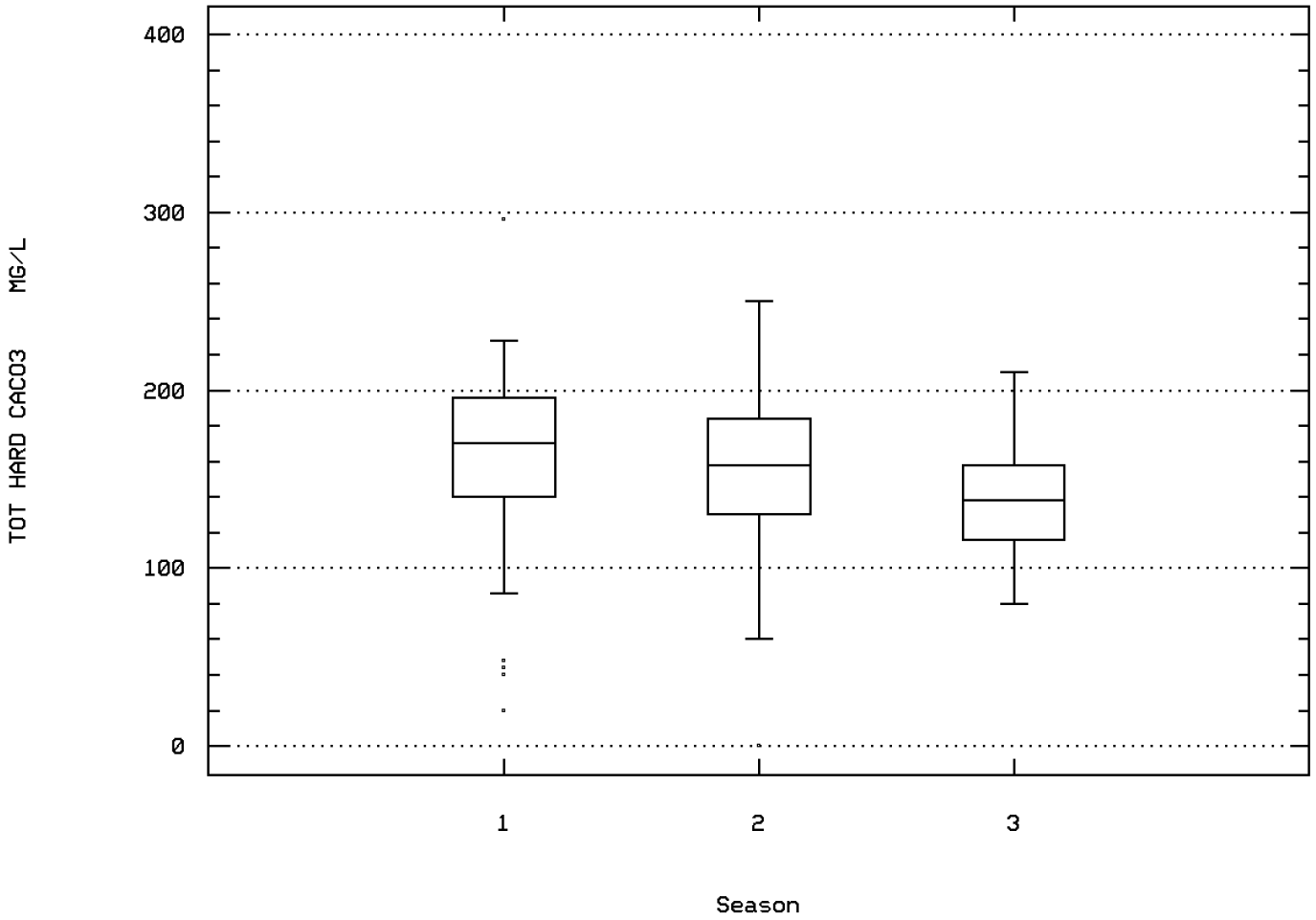
Shenandoah River at Harpers Ferry, W. V



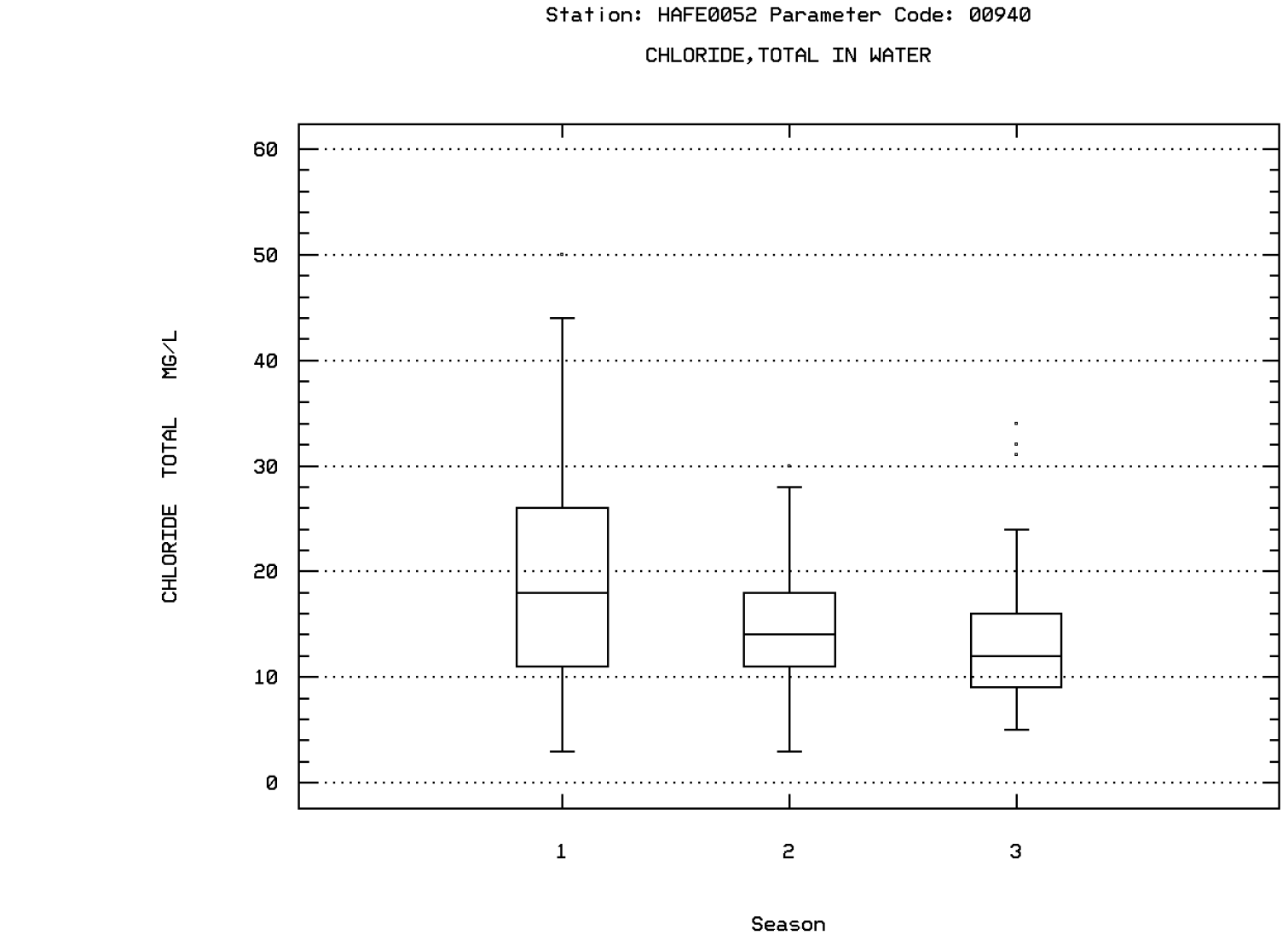
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 00900

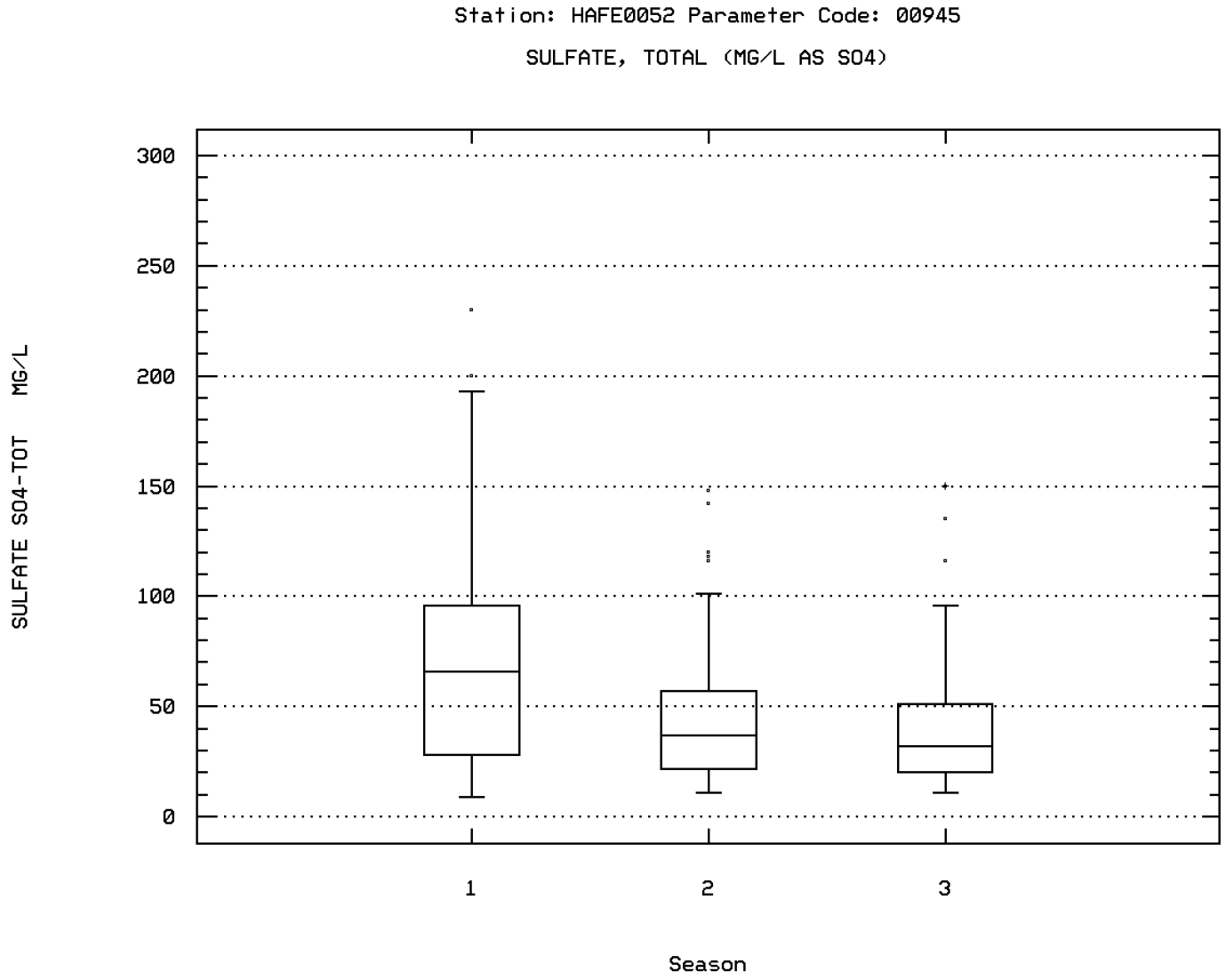
HARDNESS, TOTAL (MG/L AS CACO3)



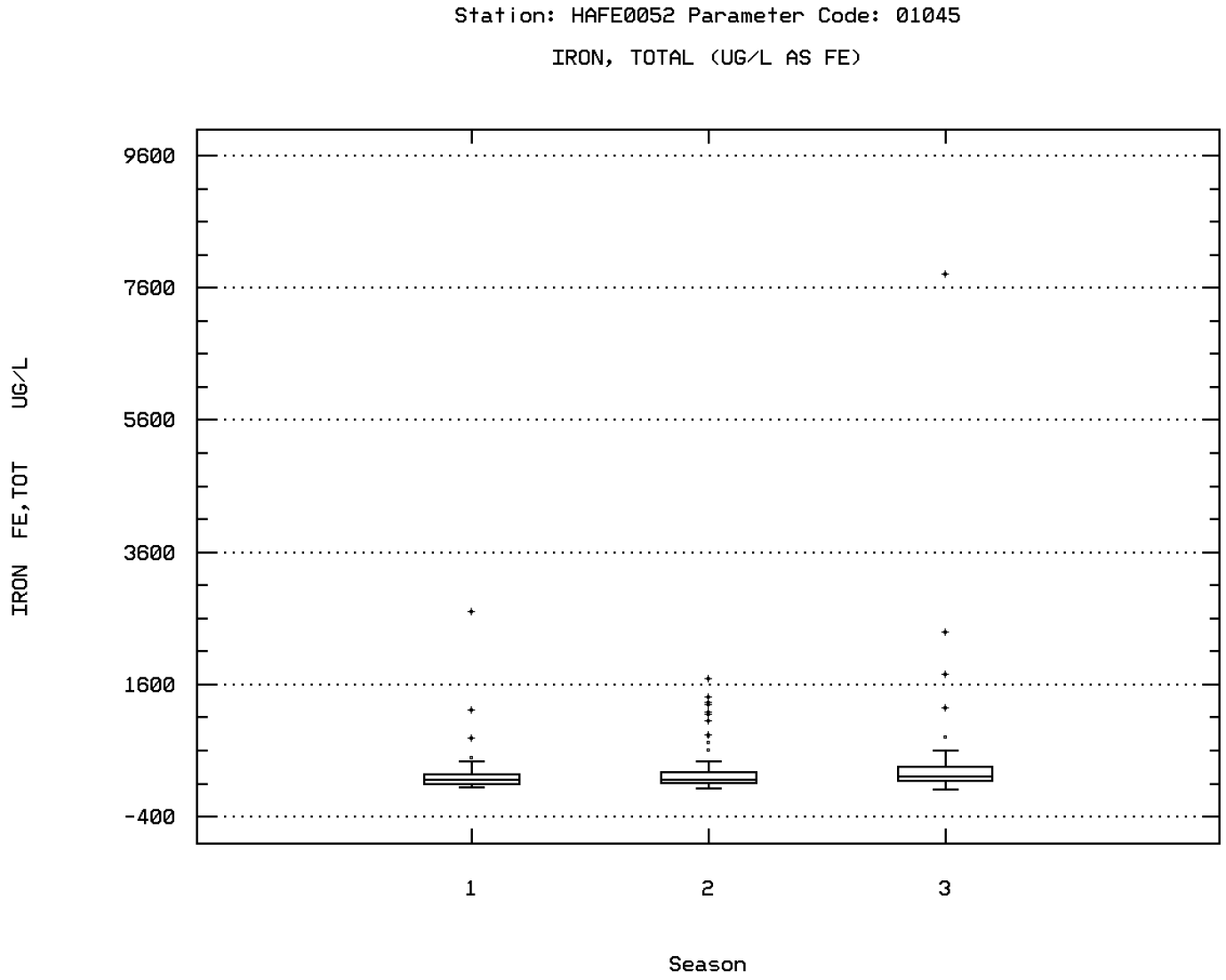
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V



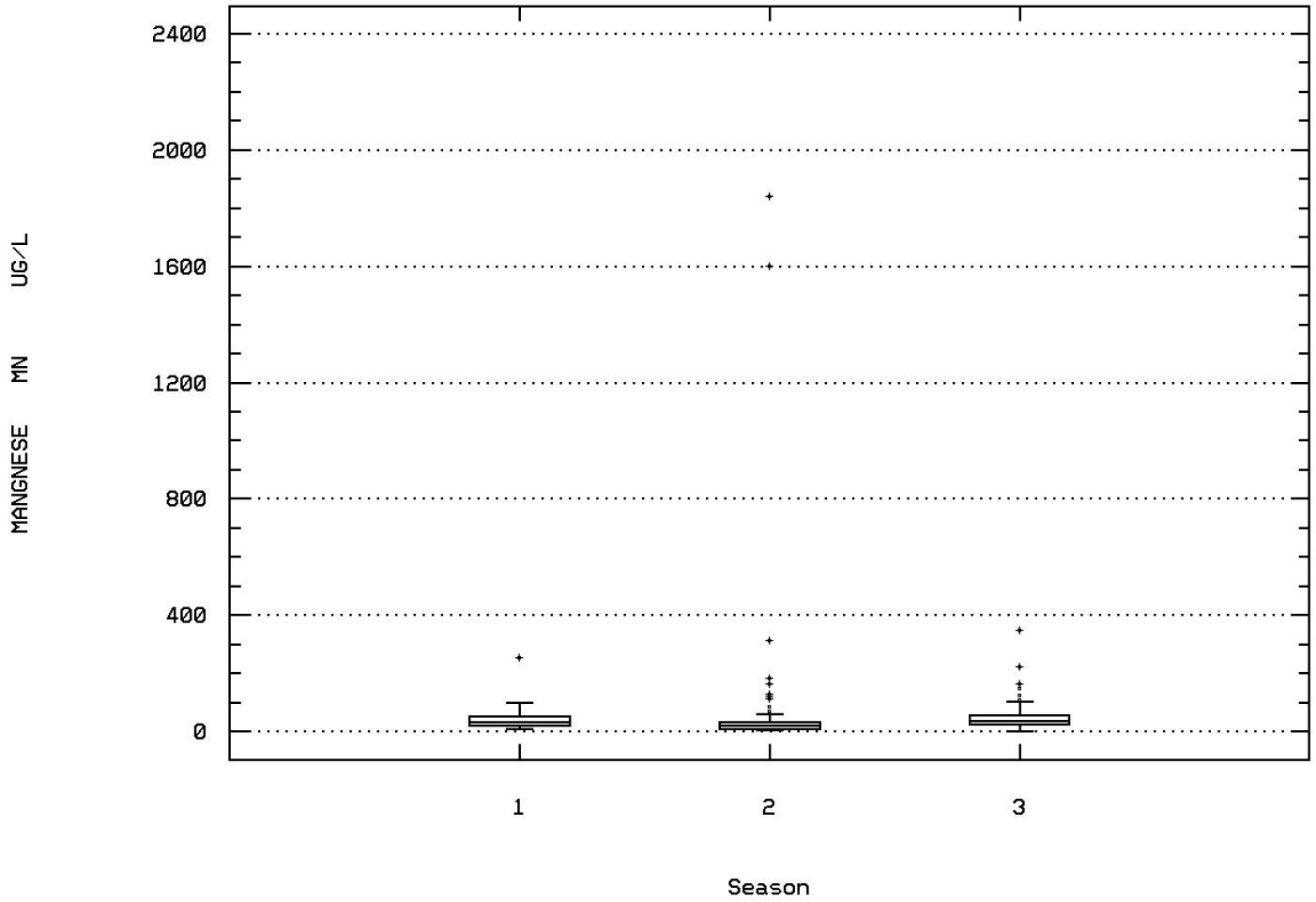
Shenandoah River at Harpers Ferry, W. V



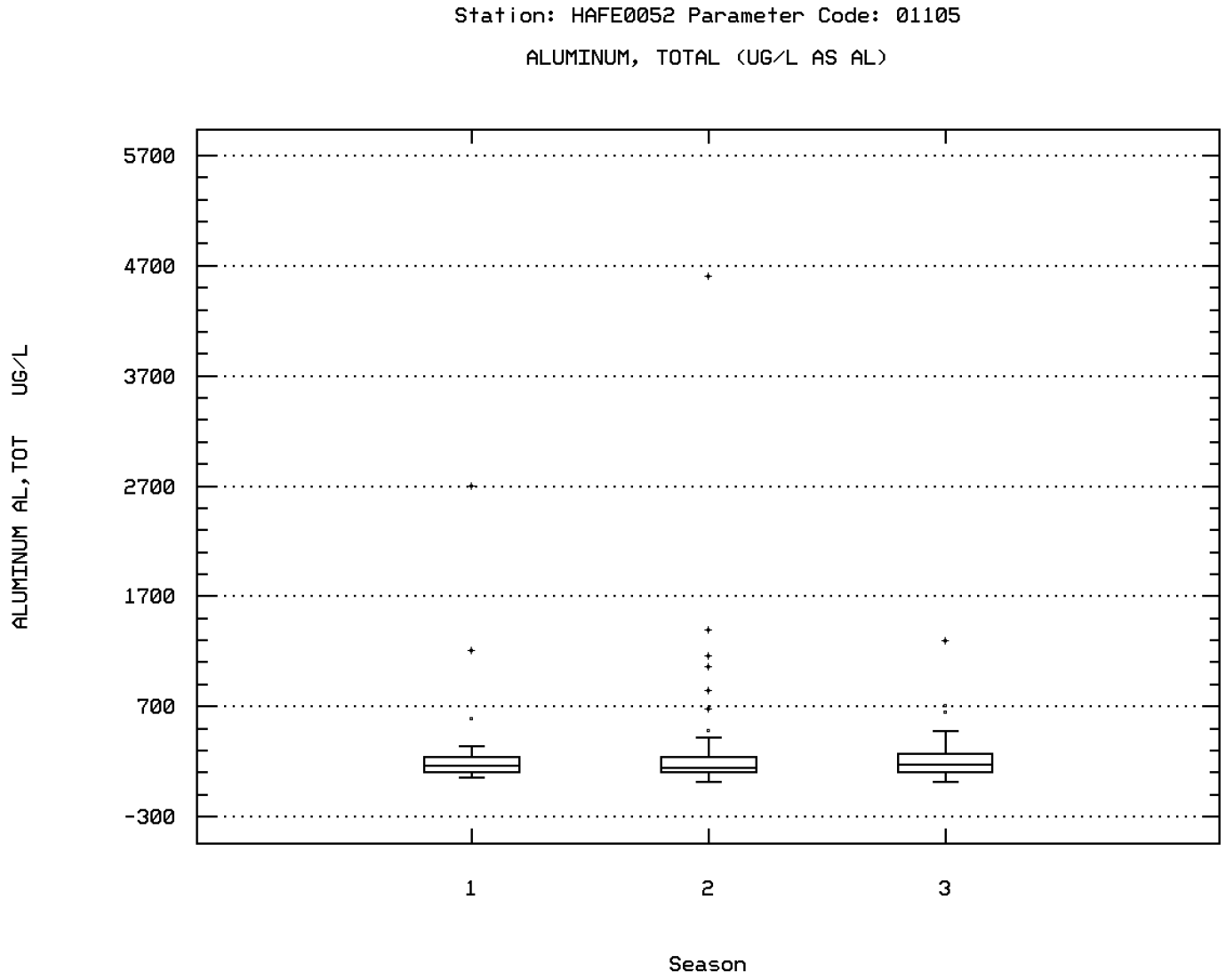
Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 01055

MANGANESE, TOTAL (UG/L AS MN)



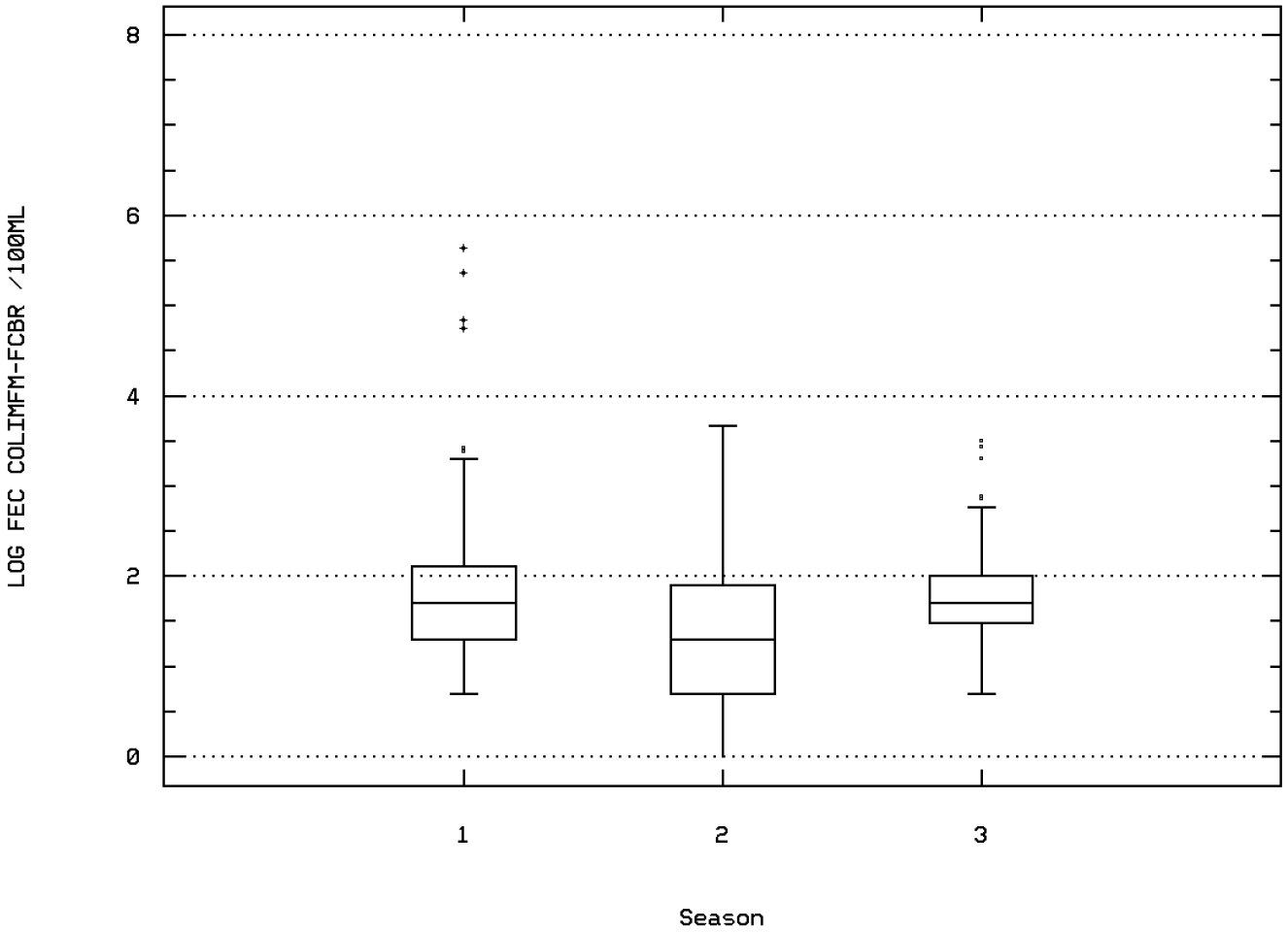
Shenandoah River at Harpers Ferry, W. V



Shenandoah River at Harpers Ferry, W. V

Station: HAFE0052 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



Shenandoah River at Harpers Ferry, W. V

Station Inventory for Station: HAFE0053

NPS Station ID: HAFE0053
LAT/LON: 39.417504/ -77.742920
Agency: 21MDEXP
Date Created: 10/11/80
Location: BRIDGE ON HARPER'S ROAD AT ANTIETAM
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): ANT0002
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 0.140
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004002400.81
RF3 Mile Point: 0.81
Distance from RF3: 0.05
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE ANTIETAM CREEK RIVER MILE IS .20
RECEIVING TRIBUTARY IS POTOMAC RIVER BRIDGE ON HARPER'S ROAD AT ANTIETAM

Parameter Inventory for Station: HAFE0053

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: HAFE0054

NPS Station ID: HAFE0054
LAT/LON: 39.417226/ -77.742920
Agency: 21MDEXP
Date Created: 10/11/80
Location: BRIDGE AT MILLS ROAD
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SRM0008
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004002
RF1 Mile Point: 0.140
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070007000103.23
RF3 Mile Point: 3.23
Distance from RF3: 0.02
On/Off RF3:
Description:
02-14-05-02 ANTIETAM CREEK DRAINAGE SHARMANS BRANCH RIVER MILE IS .80
RECEIVING TRIBUTARY IS ANTIETAM CREEK BRIDGE AT MILLS ROAD

Parameter Inventory for Station: HAFE0054

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: HAFE0055

NPS Station ID: HAFE0055 | LAT/LON: 39.456309/ -77.744559 | Agency: 11NPSWRD | Date Created: 07/22/95
Location: SHARPSBURG CREEK ENTERING PARK | FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): ANTI_SCEP
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: NORTH ATLANTIC | Elevation: 355 | Water Body Id:
Minor Basin: POTOMAC RIVER | ECO Region:
RF1 Index: 02070004 | RF1 Mile Point: 0.000 | Distance from RF1: 12.80 | On/Off RF1:
RF3 Index: 02070004010303.75 | RF3 Mile Point: 5.94 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SITE IS LOCATED ON SHARPSBURG CREEK WHERE IT ENTERS THE PARK. THIS STREAM ORIGINATES AT A NATURAL SPRING IN THE TOWN OF SHARPSBURG. IT IS ALSO FED BY STORM SEWERS AND A SMALL POND OFF OF PARK PROPERTY. THE GENERAL SOIL ASSOCIATION IS THE HAGERSTOWN-DUFFIELD-FRANKSTOWN ASSOCIATION SOILS OF LIMESTONE VALLEYS. THE STREAM FLOWS THROUGH THE SAME NATURAL SOILS GROUPS AS DOES ANTIETAM CREEK. THE MORE SPECIFIC SOIL TYPES INCLUDE A SMALL PORTION OF ROCKY ERODED LAND CAPABILITY UNIT VII-1S SEVERELY ERODED VERY ROCKY SOILS THE RESULT OF MASSIVE OUTCROPS OF LIMESTONE. THE MAJORITY OF THE STREAM FLOWS THROUGH THE HUNTINGTON SILT LOAM. STATION IS THE RESPONSIBILITY OF ANTIETAM NATIONAL BATTLEFIELD. FOR MORE INFO CALL ED WENSCHOHOF JR. CHIEF OF NATURAL RESOURCES MANAGEMENT AND PROTECTION. HIS ADDRESS IS P.O. BOX 158 SHARPSBURG MD 21782-0158. TELEPHONE (301) 432-2243 FAX (301) 432-4590. DATA PROCESSED AND UPLOADED TO STORET BY RANDY SIDDENS AT NPS WRD IN FORT COLLINS. PHONE (970) 225-3581 FAX (970) 225-9965.

Parameter Inventory for Station: HAFE0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/07/85-07/07/88	29	13.3	13.19	17.2	8.9	6.33	2.516	9.4	10.6	15.	16.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/07/85-07/07/88	29	630.	627.241	730.	525.	2558.19	50.579	560.	600.	655.	715.
00300	OXYGEN, DISSOLVED MG/L	06/07/85-07/07/88	29	11.	10.759	12.	7.	1.404	1.185	9.	10.	12.	12.
00400	PH (STANDARD UNITS)	06/07/85-05/27/88	26	8.	7.896	8.9	6.2	0.232	0.481	7.47	7.6	8.1	8.43
00400	CONVERTED PH (STANDARD UNITS)	06/07/85-05/27/88	26	8.	7.423	8.9	6.2	0.465	0.682	7.47	7.6	8.1	8.43
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/07/85-05/27/88	26	0.01	0.038	0.631	0.001	0.015	0.121	0.004	0.008	0.025	0.034
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/85-07/07/88	29	13.	13.172	16.	11.	1.433	1.197	12.	12.	14.	15.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/07/85-07/07/88	29	0.2	0.302	0.8	0.05	0.052	0.229	0.05	0.1	0.5	0.6
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/07/85-07/07/88	29	6.	6.031	9.9	3.5	2.167	1.472	4.	5.	7.	8.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/07/85-07/07/88	29	0.2	0.59	3.	0.05	0.69	0.831	0.05	0.05	0.75	1.7
00940	CHLORIDE,TOTAL IN WATER MG/L	09/03/85-07/07/88	28	5.	5.214	8.	3.	1.508	1.228	4.	4.	6.	7.1
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	10/01/85-07/07/88	24	1.75	2.354	8.1	0.4	3.371	1.836	0.95	1.1	2.4	5.55

** - Less 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: HAFE0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
00400	PH	Other-Hi Lim.	9.	26	0	0.00	7	0	0.00	10	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	26	1	0.04	7	0	0.00	10	0	0.00	9	1	0.11			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	29	0	0.00	7	0	0.00	10	0	0.00	12	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	28	0	0.00	7	0	0.00	10	0	0.00	11	0	0.00			
		Drinking Water	250.	28	0	0.00	7	0	0.00	10	0	0.00	11	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	24	0	0.00	5	0	0.00	10	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0056

NPS Station ID: HAFE0056
LAT/LON: 39.456116/ -77.744727
Agency: 112WRD
Date Created: 02/28/78
Location: WA Di 73
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392722077444101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 10.20
On/Off RF1:
RF3 Index: 02070004110700.00
RF3 Mile Point: 0.98
Distance from RF3: 0.60
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/59-05/20/59	1	509.	509.	509.	509.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/20/59-05/20/59	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/20/59-05/20/59	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/59-05/20/59	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/20/59-05/20/59	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	1	212.	212.	212.	212.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/20/59-05/20/59	1	259.	259.	259.	259.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/20/59-05/20/59	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/20/59-05/20/59	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/59-05/20/59	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/59-05/20/59	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/20/59-05/20/59	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	05/20/59-05/20/59	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/59-05/20/59	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/59-05/20/59	1	8.	8.	8.	8.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/20/59-05/20/59	1	11.	11.	11.	11.	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: HAFE0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
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: HAFE0057

NPS Station ID: HAFE0057
LAT/LON: 39.458338/ -77.746393
Agency: 112WRD
Date Created: 02/28/78
Location: WA Di 49
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392730077444701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 5.30
On/Off RF1:
RF3 Index: 02070004121100.00
RF3 Mile Point: 0.42
Distance from RF3: 0.53
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	04/15/59-04/15/59	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/15/59-04/15/59	1	578.	578.	578.	578.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/15/59-04/15/59	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/15/59-04/15/59	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/59-04/15/59	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	04/15/59-04/15/59	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/15/59-04/15/59	1	233.	233.	233.	233.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/15/59-04/15/59	1	284.	284.	284.	284.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/15/59-04/15/59	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/15/59-04/15/59	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/15/59-04/15/59	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/15/59-04/15/59	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/15/59-04/15/59	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/15/59-04/15/59	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/15/59-04/15/59	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/15/59-04/15/59	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/15/59-04/15/59	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/15/59-04/15/59	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/15/59-04/15/59	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/15/59-04/15/59	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/15/59-04/15/59	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/15/59-04/15/59	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/15/59-04/15/59	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/15/59-04/15/59	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/59-04/15/59	1	540.	540.	540.	540.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/15/59-04/15/59	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	04/30/59-04/30/59	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
03501	BETA, TOTAL	04/30/59-04/30/59	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
09501	RADIUM 226, TOTAL	04/30/59-04/30/59	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	04/30/59-04/30/59	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/15/59-04/15/59	1	327.	327.	327.	327.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/15/59-04/15/59	1	32.	32.	32.	32.	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: HAFE0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: HAFE0058

NPS Station ID: HAFE0058
LAT/LON: 39.457226/ -77.748059
Agency: 112WRD
Date Created: 02/28/78
Location: WA DI 8
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392726077445301
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 7.40
On/Off RF1:
RF3 Index: 02070004121100.00
RF3 Mile Point: 0.51
Distance from RF3: 0.72
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/29/59-04/29/59	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	04/29/59-04/29/59	1	271.	271.	271.	271.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/59-04/23/59	1	487.	487.	487.	487.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/23/59-04/23/59	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/23/59-04/23/59	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/59-04/23/59	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	04/23/59-04/23/59	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/59-04/23/59	1	199.	199.	199.	199.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/23/59-04/23/59	1	243.	243.	243.	243.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/23/59-04/23/59	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/59-04/23/59	1	229.	229.	229.	229.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/23/59-04/23/59	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/59-04/23/59	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/23/59-04/23/59	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/23/59-04/23/59	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/59-04/23/59	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/23/59-04/23/59	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	04/29/59-04/29/59	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
03501	BETA, TOTAL	04/29/59-04/29/59	1	7.	7.	7.	7.	0.	0.	**	**	**	**
09501	RADIUM 226, TOTAL	04/29/59-04/29/59	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	04/29/59-04/29/59	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/23/59-04/23/59	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: HAFE0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
22703	URANIUM, NATURAL DISSOLVED	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

EPA Water Quality Criteria Analysis for Station: HAFE0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: HAFE0059

NPS Station ID: HAFE0059 LAT/LON: 39.421866/ -77.750392 Agency: 21MDEXP Date Created: 10/11/80
Location: 0.5 MILE ABOVE MOUTH OF ANTIETAM CRALONG C AND O FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): POT1798
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004009 RF1 Mile Point: 0.430 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 02070004000100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:
02-14-05-01 POTOMAC RIVER WASHINGTON CO. AREA DRAINAGE (SHENENDOAH RIVER TO LITTLE TONOLOWAY CREEK)
POTOMAC RIVER RIVER MILE IS 179.80 RECEIVING TRIBUTARY IS CHESAPEAKE BAY
0.5 MILE ABOVE MOUTH OF ANTIETAM CRALONG C AND O CANAL RD.

Parameter Inventory for Station: HAFE0059

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: HAFE0060

NPS Station ID: HAFE0060
LAT/LON: 39.333615/ -77.751449
Agency: 21WVAMBG
Date Created: 04/10/93
Location: HARPERS FERRY SPRING
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GWAMBNET037-01
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 400
Water Body Id: 377TMSN
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/09/93-05/16/95	9	13.	12.444	13.5	11.	0.84	0.917	11.	11.5	13.	13.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/17/94-05/16/95	6	21.25	18.717	34.	3.8	134.762	11.609	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/09/93-05/16/95	8	757.5	757.375	766.	747.	38.839	6.232	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/94-05/16/95	5	677.	804.8	1060.	616.	44453.7	210.84	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/93-05/16/95	9	612.	549.667	709.	7.	45555.	213.436	7.	521.	664.	709.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/09/93-05/16/95	8	6.7	6.788	8.7	5.	1.616	1.271	**	**	**	**
00400	PH (STANDARD UNITS)	03/09/93-05/16/95	9	7.29	7.096	7.42	6.67	0.094	0.306	6.67	6.79	7.35	7.42
00400	CONVERTED PH (STANDARD UNITS)	03/09/93-05/16/95	9	7.29	6.998	7.42	6.67	0.104	0.323	6.67	6.79	7.35	7.42
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/93-05/16/95	9	0.051	0.1	0.214	0.038	0.005	0.072	0.038	0.045	0.167	0.214
00403	PH, LAB, STANDARD UNITS SU	06/16/94-05/16/95	5	7.	7.04	7.2	7.	0.008	0.089	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/16/94-05/16/95	5	7.	7.033	7.2	7.	0.008	0.09	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/16/94-05/16/95	5	0.1	0.093	0.1	0.063	0.	0.017	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/09/93-03/17/94	4	6.85	6.802	6.91	6.6	0.021	0.144	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/09/93-03/17/94	4	6.847	6.783	6.91	6.6	0.021	0.146	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/93-03/17/94	4	0.142	0.165	0.251	0.123	0.004	0.06	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/09/93-05/16/95	9	283.	274.333	300.	223.	708.5	26.618	223.	257.	291.	300.
00500	RESIDUE, TOTAL (MG/L)	03/09/93-05/16/95	9	408.	392.111	462.	304.	2822.861	53.131	304.	341.	426.5	462.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/09/93-05/16/95	9	0.06	0.089	0.2	0.005	0.005	0.067	0.005	0.055	0.15	0.2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/09/93-10/20/93	3	2.8	3.1	4.3	2.2	1.17	1.082	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/17/94-05/16/95	6	3.25	2.88	3.55	0.81	1.061	1.03	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/09/93-05/16/95	9	0.016	0.019	0.035	0.014	0.	0.007	0.014	0.015	0.021	0.035
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/09/93-05/16/95	9 ##	0.5	1.389	5.	0.5	2.236	1.495	0.5	0.5	2.	5.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/09/93-05/16/95	9	332.	315.333	506.	130.	10264.	101.311	130.	254.	348.	506.
00916	CALCIUM, TOTAL (MG/L AS CA)	03/09/93-05/16/95	9	98.	106.233	174.9	82.7	799.18	28.27	82.7	87.95	111.95	174.9
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/09/93-05/16/95	9	24.	23.989	37.3	14.6	41.616	6.451	14.6	19.3	26.4	37.3
00929	SODIUM, TOTAL (MG/L AS NA)	03/09/93-05/16/95	9	5.57	5.157	7.89	3.2	2.224	1.491	3.2	3.7	5.935	7.89
00937	POTASSIUM, TOTAL MG/L AS K)	03/09/93-05/16/95	9	1.71	1.731	1.95	1.5	0.021	0.144	1.5	1.615	1.85	1.95
00940	CHLORIDE,TOTAL IN WATER MG/L	03/09/93-05/16/95	9	15.	13.889	18.	9.	10.861	3.296	9.	10.	16.	18.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/09/93-05/16/95	9	24.	25.222	44.	15.	87.444	9.351	15.	18.	31.	44.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/09/93-05/16/95	9	0.32	0.329	0.38	0.27	0.003	0.05	0.27	0.28	0.38	0.38
01002	ARSENIC, TOTAL (UG/L AS AS)	03/09/93-05/16/95	9 ##	0.25	0.417	1.	0.25	0.109	0.331	0.25	0.25	0.625	1.
01007	BARIUM, TOTAL (UG/L AS BA)	03/09/93-05/16/95	9 ##	25.	46.667	115.	25.	1212.5	34.821	25.	25.	77.5	115.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/01/94-05/16/95	3 ##	1.25	2.5	5.	1.25	4.688	2.165	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/09/93-05/16/95	9 ##	0.3	0.739	1.5	0.025	0.528	0.727	0.025	0.063	1.5	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/09/93-05/16/95	9 ##	12.5	13.889	25.	12.5	17.361	4.167	12.5	12.5	12.5	25.
01042	COPPER, TOTAL (UG/L AS CU)	03/09/93-05/16/95	9 ##	5.	7.222	20.	5.	25.694	5.069	5.	5.	7.5	20.
01045	IRON, TOTAL (UG/L AS FE)	03/09/93-05/16/95	9	70.	108.889	225.	35.	5448.611	73.815	35.	42.5	182.5	225.
01051	LEAD, TOTAL (UG/L AS PB)	03/09/93-05/16/95	9 ##	0.25	3.272	25.	0.25	66.708	8.168	0.25	0.25	1.3	25.

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Parameter Inventory for Station: HAFE0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	03/09/93-05/16/95	9 ##	2.5	4.722	15.	2.5	16.319	4.04	2.5	2.5	5.	15.
01067	NICKEL, TOTAL (UG/L AS NI)	03/09/93-05/16/95	9 ##	10.	12.222	30.	10.	44.444	6.667	10.	10.	10.	30.
01077	SILVER, TOTAL (UG/L AS AG)	03/09/93-05/16/95	9 ##	2.5	2.228	2.5	0.05	0.667	0.817	0.05	2.5	2.5	2.5
01092	ZINC, TOTAL (UG/L AS ZN)	03/09/93-05/16/95	9	10.	14.611	70.	1.5	447.611	21.157	1.5	5.	12.5	70.
01097	ANTIMONY, TOTAL (UG/L AS SB)	03/09/93-05/16/95	9 ##	1.	11.889	50.	1.	466.861	21.607	1.	1.	25.5	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/09/93-05/16/95	9	50.	46.111	80.	25.	473.611	21.763	25.	25.	65.	80.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/09/93-05/16/95	9 ##	0.5	0.528	1.	0.25	0.038	0.195	0.25	0.5	0.5	1.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/10/93-10/20/93	3	3.	3.833	8.	0.5	14.583	3.819	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/10/93-10/20/93	3	0.477	0.36	0.903	-0.301	0.373	0.611	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.289								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/10/93-10/20/93	3	86.	108.833	240.	0.5	14731.083	121.372	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/10/93-10/20/93	3	1.934	1.338	2.38	-0.301	2.064	1.437	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			21.772								
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	03/10/93-03/10/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	03/10/93-03/10/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	03/10/93-03/10/93	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	03/10/93-03/10/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	03/10/93-03/10/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	03/10/93-03/10/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	03/10/93-03/10/93	1 ##	0.59	0.59	0.59	0.59	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	03/10/93-03/10/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	03/10/93-03/10/93	1 ##	0.125	0.125	0.125	0.125	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	03/10/93-03/10/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	03/10/93-03/10/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	03/10/93-03/10/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	03/10/93-03/10/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	03/10/93-03/10/93	1 ##	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	03/10/93-03/10/93	1 ##	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/93-05/16/95	9	368.	355.667	398.	294.	1516.	38.936	294.	315.	387.	398.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	03/09/93-05/16/95	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	03/09/93-03/14/95	8 ##	0.1	0.138	0.3	0.1	0.006	0.074	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	03/10/93-03/10/93	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
82561	NET CONDUCTIVITY IN WATER UMHOS/CM	03/09/93-03/17/94	4	602.5	593.25	650.	518.	4398.25	66.319	**	**	**	**

** - Less 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: HAFE0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	8	0	0.00	1	0	0.00	4	0	0.00	3	0	0.00			
00400	PH	Other-Hi Lim.	9.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	3	3	1.00	1	1	1.00	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

EPA Water Quality Criteria Analysis for Station: HAFE0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	1	0	0.00	3	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	250.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	50.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00				2	0	0.00	1	0	0.00			
		Drinking Water	4.	3	1	0.33				2	0	0.00	1	1	1.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	5.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	9	1	0.11	2	0	0.00	4	1	0.25	3	0	0.00			
		Drinking Water	1300.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	15.	8 &	0	0.00	2	0	0.00	3	0	0.00	3	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	100.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	100.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	5000.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	6.	7 &	0	0.00	2	0	0.00	3	0	0.00	2	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	50.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00				1	0	0.00						
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00				1	0	0.00						
		Drinking Water	1000.	1	0	0.00				1	0	0.00						
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00				1	0	0.00						
		Drinking Water	700.	1	0	0.00				1	0	0.00						
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00				1	0	0.00						
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00				1	0	0.00						
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00				1	0	0.00						
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00				1	0	0.00						
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00				1	0	0.00						
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00				1	0	0.00						
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	1	0	0.00				1	0	0.00						
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	2	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	2.	8	0	0.00	2	0	0.00	4	0	0.00	2	0	0.00			

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

Station Inventory for Station: HAFE0061

NPS Station ID: HAFE0061
LAT/LON: 39.334448/ -77.761670
Agency: 112WRD
Date Created: 11/18/75
Location: ELKS RUN TRIB NR HARPERS FERRY
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 392004077454201
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070007017606.86
RF3 Mile Point: 7.81
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/03/88	2	16.5	16.5	21.	12.	40.5	6.364	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	1	759.	759.	759.	759.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/03/88	2	0.08	0.08	0.1	0.06	0.001	0.028	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/03/88	2	537.5	537.5	625.	450.	15312.5	123.744	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/74-08/03/88	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/74-08/03/88	2	8.047	8.047	8.1	8.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/74-08/03/88	2	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	1	378.	378.	378.	378.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/03/88	2	72.5	72.5	74.	71.	4.5	2.121	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/03/88	2	39.	39.	41.	37.	8.	2.828	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/03/88	2	13.5	13.5	16.	11.	12.5	3.536	**	**	**	**

** - Less 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: HAFE0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0062

NPS Station ID: HAFE0062
LAT/LON: 39.275837/ -77.768616
Agency: 112WRD
Date Created: 12/10/75
Location: SHENANDOAH R TRIB NR SILVER GROVE
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 391633077460701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 5.730
Distance from RF1: 20.40
On/Off RF1: OFF
RF3 Index: 02070004031200.00
RF3 Mile Point: 0.18
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	2	18.25	18.25	23.5	13.	55.125	7.425	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	1	756.	756.	756.	756.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	2	0.045	0.045	0.06	0.03	0.	0.021	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/74-08/03/88	2	222.5	222.5	235.	210.	312.5	17.678	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.7	7.7	7.9	7.5	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.655	7.655	7.9	7.5	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/74-08/03/88	2	0.022	0.022	0.032	0.013	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	1	102.	102.	102.	102.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	1	124.	124.	124.	124.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	2	27.5	27.5	29.	26.	4.5	2.121	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	2	8.65	8.65	9.7	7.6	2.205	1.485	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	2	6.5	6.5	7.	6.	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: HAFE0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0063

NPS Station ID: HAFE0063 LAT/LON: 39.518059/ -77.774115 Agency: 21MDEXP Date Created: 10/11/80
Location: AT USGS GAGE, 220 FEET ABOVE BRIDGE ON SPREACHER FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): MSH0016
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 9.50 On/Off RF1:
RF3 Index: 02070004004700.00 RF3 Mile Point: 0.43 Distance from RF3: 0.04 On/Off RF3:
Description:
02-14-05-03 MARSH RUN DRAINAGE MARSH RUN RIVER MILE IS 1.60
RECEIVING TRIBUTARY IS POTOMAC RIVER AT USGS GAGE, 220 FEET ABOVE BRIDGE ON SPREACHER RD.

Parameter Inventory for Station: HAFE0063

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: HAFE0064

NPS Station ID: HAFE0064
LAT/LON: 39.400281/ -77.774726
Agency: 112WRD
Date Created: 11/20/93
Location: RATTLESNAKE RN NR SHEPHERDSTOWN, WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01618200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/93-09/08/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/08/93-09/08/93	1	20.5	20.5	20.5	20.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	09/08/93-09/08/93	1	767.	767.	767.	767.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/08/93-09/08/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/08/93-09/08/93	1	523.	523.	523.	523.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/08/93-09/08/93	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/08/93-09/08/93	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/08/93-09/08/93	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/93-09/08/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/08/93-09/08/93	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/08/93-09/08/93	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/93-09/08/93	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	09/08/93-09/08/93	1	298.	298.	298.	298.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/08/93-09/08/93	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/08/93-09/08/93	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/93-09/08/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/08/93-09/08/93	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/08/93-09/08/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/93-09/08/93	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/93-09/08/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/08/93-09/08/93	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/93-09/08/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/93-09/08/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/93-09/08/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/93-09/08/93	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/08/93-09/08/93	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/08/93-09/08/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1	0.048	0.048	0.048	0.048	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1	0.044	0.044	0.044	0.044	0.	0.	**	**	**	**
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	09/08/93-09/08/93	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34253	A-BHC-ALPHA DISSUG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34653	P,P'-DDE DISSUG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	09/08/93-09/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	09/08/93-09/08/93	1	244.	244.	244.	244.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/08/93-09/08/93	1 ##	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	09/08/93-09/08/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	09/08/93-09/08/93	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/08/93-09/08/93	1	310.	310.	310.	310.	0.	0.	**	**	**	**
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	09/08/93-09/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	09/08/93-09/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	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: HAFE0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	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

EPA Water Quality Criteria Analysis for Station: HAFE0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	1	0	0.00	1	0	0.00									
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HAFE0065

NPS Station ID: HAFE0065
LAT/LON: 39.514726/ -77.777226
Agency: 112WRD
Date Created: 07/30/76
Location: MARSH RN AT GRIMES, MD
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01617800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070004002400.81
RF3 Mile Point: 0.81
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	107	13.	12.469	25.	0.	47.025	6.857	2.8	7.	19.	21.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	105	17.	15.19	31.	-10.	93.55	9.672	3.4	9.	23.5	27.
00025	BAROMETRIC PRESSURE (MM OF HG)	08/11/92-09/07/93	2	760.	760.	770.	750.	200.	14.142	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	103	9.	12.649	62.	0.8	119.766	10.944	3.4	5.	18.	25.6
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	102	1.135	1.249	8.3	0.74	0.554	0.744	0.933	0.998	1.348	1.524
00080	COLOR (PLATINUM-COBALT UNITS)	09/19/85-04/02/86	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/19/85-09/07/93	7	616.	611.857	670.	570.	1150.143	33.914	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/02/86-09/07/93	5	9.2	9.52	11.	8.3	1.157	1.076	**	**	**	**
00400	PH (STANDARD UNITS)	09/19/85-09/07/93	7	8.1	8.083	8.3	7.71	0.036	0.191	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/19/85-09/07/93	7	8.1	8.042	8.3	7.71	0.038	0.196	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/19/85-09/07/93	7	0.008	0.009	0.019	0.005	0.	0.005	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/19/85-09/07/93	3	7.9	7.833	8.	7.6	0.043	0.208	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/19/85-09/07/93	3	7.9	7.799	8.	7.6	0.045	0.212	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/19/85-09/07/93	3	0.013	0.016	0.025	0.01	0.	0.008	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	09/07/93-09/07/93	1	288.	288.	288.	288.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/07/93-09/07/93	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/07/93-09/07/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/07/93-09/07/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/07/93-09/07/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/19/85-04/02/86	2	4.4	4.4	5.1	3.7	0.98	0.99	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/07/93-09/07/93	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/19/85-09/07/93	3	0.03	0.033	0.05	0.02	0.	0.015	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/93-09/07/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/07/93-09/07/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/19/85-09/07/93	3	97.	96.	99.	92.	13.	3.606	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/19/85-09/07/93	3	9.5	9.6	10.	9.3	0.13	0.361	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/19/85-09/07/93	3	11.	10.3	11.	8.9	1.47	1.212	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/19/85-09/07/93	3	2.5	2.767	3.6	2.2	0.543	0.737	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/19/85-09/07/93	3	23.	24.	28.	21.	13.	3.606	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/19/85-09/07/93	3	30.	28.	32.	22.	28.	5.292	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/19/85-09/07/93	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/19/85-09/07/93	3	9.	9.067	10.	8.2	0.813	0.902	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/19/85-09/19/85	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/19/85-04/02/86	2	200.	200.	260.	140.	7200.	84.853	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/19/85-09/07/93	3	5.	9.167	21.	1.5	108.083	10.396	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/19/85-09/19/85	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/19/85-04/02/86	2	25.	25.	30.	20.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/85-09/07/93	3	7.	7.	10.	4.	9.	3.	**	**	**	**

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

Parameter Inventory for Station: HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	1	0.024	0.024	0.024	0.024	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	1	0.064	0.064	0.064	0.064	0.	0.	**	**	**	**
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	09/07/93-09/07/93	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	1 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34253	A-BHC-ALPHA DISSUG/L	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34653	P,P'-DDE DISSUG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34790	SURFACTANTS, AS CTAS, WATER MG/L	08/11/92-08/11/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	18.	18.	18.	18.	0.	0.	**	**	**	**
34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	47.	47.	47.	47.	0.	0.	**	**	**	**
34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	40.	40.	40.	40.	0.	0.	**	**	**	**
34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	19.	19.	19.	19.	0.	0.	**	**	**	**
34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	37.	37.	37.	37.	0.	0.	**	**	**	**
34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	9.	9.	9.	9.	0.	0.	**	**	**	**
34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34880	IRON,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	37.	37.	37.	37.	0.	0.	**	**	**	**
34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	15.	15.	15.	15.	0.	0.	**	**	**	**
34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	70.	70.	70.	70.	0.	0.	**	**	**	**
34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	560.	560.	560.	560.	0.	0.	**	**	**	**
34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	38.	38.	38.	38.	0.	0.	**	**	**	**
34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	18.	18.	18.	18.	0.	0.	**	**	**	**
34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	370.	370.	370.	370.	0.	0.	**	**	**	**
34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
34985	TIN,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	40.	40.	40.	40.	0.	0.	**	**	**	**
35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	21.	21.	21.	21.	0.	0.	**	**	**	**
35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	08/11/92-08/11/92	1	56.	56.	56.	56.	0.	0.	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	09/07/93-09/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	09/07/93-09/07/93	1 ##	118.	118.	118.	118.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/07/93-09/07/93	1 ##	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	09/07/93-09/07/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	1 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	09/07/93-09/07/93	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/19/85-09/07/93	3	339.	336.667	359.	312.	556.333	23.587	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/19/85-09/19/85	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**

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Parameter Inventory for Station: HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	09/07/93-09/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	09/07/93-09/07/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/07/93-09/07/93	1 ##	0.01	0.01	0.01	0.01	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: HAFE0065

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	4	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	6	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	6	0	0.00				1	0	0.00			
00403	PH, LAB	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			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00				1	0	0.00			
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	1	0	0.00	1	0	0.00									
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	1	0	0.00	1	0	0.00									
46342	ALACHLOR (LASSO), WATER, DISSOLVED	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

Annual Analysis for 1974 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	3	7.	6.5	7.5	5.	1.75	1.323	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	3	6.5	6.5	9.	4.	6.25	2.5	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	3	6.	7.667	13.	4.	22.333	4.726	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	3	1.05	1.1	1.29	0.96	0.029	0.171	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	8	9.75	11.813	21.5	6.	30.71	5.542	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	14.	17.357	30.	10.	65.393	8.087	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	8	19.	20.25	30.	11.	43.357	6.585	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	8	1.415	1.411	1.57	1.2	0.014	0.118	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	8	14.5	14.063	20.5	4.	31.46	5.609	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	8	17.5	17.313	30.	2.5	74.567	8.635	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	8	15.5	19.375	57.	5.	283.696	16.843	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	8	1.295	1.329	1.89	0.99	0.089	0.299	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	11.75	11.55	20.5	2.	50.358	7.096	2.	4.25	19.5	20.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	18.25	14.75	28.5	-2.	132.736	11.521	0.25	7.75	24.375	28.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	10	9.5	11.9	27.	6.	50.1	7.078	6.	6.75	14.5	26.5
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	10	1.135	1.18	1.53	1.	0.031	0.176	1.002	1.043	1.268	1.521

** - 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 1978 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	4	2.	3.75	11.	0.	24.25	4.924	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	4	6.	0.875	16.5	-10.	130.563	11.426	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	4	11.5	11.5	18.	5.	36.333	6.028	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	3	1.12	1.14	1.28	1.02	0.017	0.131	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	16.	14.786	25.	3.	61.988	7.873	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	17.	17.143	27.	0.	91.81	9.582	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	7	16.	19.857	46.	6.	209.81	14.485	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	7	1.3	1.336	1.78	1.03	0.072	0.268	**	**	**	**

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

Annual Analysis for 1980 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	10.	10.857	22.	1.	50.143	7.081	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	10.	12.143	26.	-6.	106.476	10.319	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	7	10.	11.	24.	4.	52.333	7.234	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	7	1.17	1.171	1.49	0.96	0.036	0.188	**	**	**	**

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

Annual Analysis for 1981 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	15.	14.5	23.	0.	56.944	7.546	0.8	8.	21.5	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	20.	16.6	25.	1.	71.822	8.475	1.4	8.75	23.	24.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	10	5.5	6.9	16.	3.	14.767	3.843	3.1	4.	9.	15.3
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	10	1.015	1.045	1.32	0.91	0.015	0.121	0.912	0.953	1.115	1.301

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	16.	13.3	24.	3.	55.789	7.469	3.1	4.75	19.25	23.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	19.5	16.15	29.	1.	107.003	10.344	1.35	5.625	25.	28.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	10	11.	12.7	24.	5.	62.011	7.875	5.	5.75	22.5	24.
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	10	1.175	1.177	1.46	0.95	0.042	0.204	0.951	0.975	1.405	1.459

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	9.5	11.2	21.	2.	34.4	5.865	2.5	7.	16.5	20.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	10	13.5	14.2	27.	0.	70.4	8.39	0.8	8.75	21.75	26.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	10	8.5	13.1	37.	2.	164.989	12.845	2.	2.	26.75	36.2
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	10	1.17	1.885	8.3	0.79	5.169	2.274	0.791	0.92	1.57	7.633

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

Annual Analysis for 1984 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	9.	11.857	22.	2.	61.143	7.819	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	7	13.	13.	26.	-2.	113.333	10.646	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	7	11.	18.714	62.	4.	414.571	20.361	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	7	1.17	1.26	1.92	0.9	0.122	0.349	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	8	15.	12.35	20.	2.	47.394	6.884	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	8	19.	16.	25.	0.	89.714	9.472	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	8	4.	6.375	18.	2.	27.982	5.29	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	7	0.95	1.021	1.34	0.89	0.026	0.161	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	5	17.2	15.04	23.	5.	66.708	8.167	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	5	21.5	17.6	28.	6.	84.925	9.215	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	4	3.5	6.45	18.	0.8	65.077	8.067	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	3	0.81	0.857	1.02	0.74	0.021	0.146	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	6	12.	12.333	21.	5.	51.867	7.202	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	6	17.	17.333	28.	8.	75.867	8.71	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	6	7.	7.333	13.	1.	16.267	4.033	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	6	1.065	1.057	1.23	0.8	0.021	0.145	**	**	**	**

** - Less 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 HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	3	18.2	18.067	19.5	16.5	2.263	1.504	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	2	24.	24.	26.	22.	8.	2.828	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	2	1.275	1.275	1.28	1.27	0.	0.007	**	**	**	**

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

Annual Analysis for 1993 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	1	0.94	0.94	0.94	0.94	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 #1: 8/01 to 10/31 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	31	17.	17.323	25.	7.5	16.215	4.027	11.2	15.	21.	22.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	30	21.25	20.9	31.	9.	27.99	5.291	14.	16.875	24.25	28.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	27	5.	10.326	57.	0.8	194.299	13.939	1.8	3.	7.	33.2
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	28	1.005	1.365	8.3	0.74	1.928	1.389	0.8	0.945	1.278	1.791

** - Less 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: 11/01 to 3/20 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	40	5.	5.6	17.	0.	11.605	3.407	2.	2.25	8.	9.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	39	9.	5.449	28.	-10.	44.576	6.677	0.	2.5	10.	13.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	40	10.5	12.125	33.	1.	57.24	7.566	4.	6.	16.	23.8
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	39	1.17	1.18	1.6	0.79	0.042	0.204	0.95	1.02	1.32	1.47

** - 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 #3: 3/21 to 7/31 - Station HAFE0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/74-09/07/93	36	17.1	15.922	24.	4.5	28.535	5.342	7.7	11.875	20.375	22.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/21/74-09/07/93	36	22.5	20.986	30.	8.	38.15	6.177	9.	17.	25.	27.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/21/74-09/07/93	36	11.	14.972	62.	3.	130.885	11.44	4.7	8.	19.75	27.6
00065	STAGE, STREAM (FEET)	10/21/74-09/07/93	35	1.18	1.234	1.92	0.89	0.051	0.226	0.974	1.07	1.4	1.538

** - Less 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: HAFE0066

NPS Station ID: HAFE0066
LAT/LON: 39.400365/ -77.777226
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Rattlesnake Run near Moler Crossroads, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550931 /P-009-01 /X-MIN-88P002
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVP-2
Minor Basin: Potomac River
ECO Region: 67M
RF1 Index: 02070004001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070004008800.92
RF3 Mile Point: 1.28
Distance from RF3: 0.19
On/Off RF3:
Description:
Rattlesnake Run at County Route 31 Highway Bridge northwest of Moler Crossroad, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department of Natural Resources, Romney, West Virginia Sampling done monthly from October 1987 to October 1988.
> Shepherdstown, WV-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/01/87-09/07/88	10	12.	12.7	24.	3.	44.678	6.684	3.3	6.75	18.25	23.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	445.	452.5	550.	400.	1620.455	40.255	400.	432.5	477.5	529.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	11	4.	5.636	12.	2.	19.855	4.456	2.	2.	12.	12.
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.	7.992	8.2	7.9	0.01	0.1	7.9	7.9	8.075	8.17
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.	7.982	8.2	7.9	0.01	0.1	7.9	7.9	8.075	8.17
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.01	0.01	0.013	0.006	0.	0.002	0.007	0.008	0.013	0.013
00406	PH, FIELD, STANDARD UNITS SU	12/01/87-09/07/88	10	8.	7.98	8.	7.8	0.004	0.063	7.82	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	12/01/87-09/07/88	10	8.	7.975	8.	7.8	0.004	0.063	7.82	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/01/87-09/07/88	10	0.01	0.011	0.016	0.01	0.	0.002	0.01	0.01	0.01	0.015
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	235.	235.667	267.	220.	137.697	11.734	220.6	232.	238.	259.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	27.5	41.833	117.	13.	1044.697	32.322	13.	18.75	56.25	108.3
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	11	0.51	0.564	1.05	0.07	0.077	0.277	0.12	0.37	0.74	1.018
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	11	4.2	4.582	6.1	3.	0.934	0.966	3.12	4.2	5.4	6.08
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	11	0.061	0.067	0.137	0.032	0.001	0.035	0.032	0.038	0.092	0.133
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	277.	290.5	352.	254.	815.364	28.555	258.2	274.	315.	344.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	10.	9.833	12.	8.	1.424	1.193	8.	9.	10.75	11.7
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	24.	25.455	32.	24.	7.273	2.697	24.	24.	28.	31.2
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.85	0.85	0.9	0.8	0.005	0.071	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	110.	110.	120.	100.	200.	14.142	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	4.	4.	4.	4.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	716.	1012.833	3500.	48.	1111986.515	1054.508	117.6	292.	1424.	3230.
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12	41.	44.333	120.	10.	949.697	30.817	10.	24.	48.	109.2
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	21.	21.	22.	20.	2.	1.414	**	**	**	**

** - Less 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: HAFE0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	504.	718.083	2460.	45.	596260.083	772.179	49.5	184.	906.5	2322.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0067

NPS Station ID: HAFE0067
LAT/LON: 39.334642/ -77.777226
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Elks Run near Harpers Ferry, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550930 /P-002-01 /X-MIN-88P001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVP-1
Minor Basin: Potomac River
ECO Region: 67M
RF1 Index: 02070004001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000502.18
RF3 Mile Point: 2.18
Distance from RF3: 0.02
On/Off RF3:
Description:
Elks Run at County Route 27 Highway Bridge near Harpers Ferry, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department of Natural Resources, Romney, West Virinia Sampling done monthly from October 1987 to October 1988
> Charles Town WV-VA-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/87-09/07/88	11	10.	11.364	22.	1.	39.455	6.281	1.8	6.	17.	21.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	460.	456.667	520.	380.	1496.97	38.691	386.	440.	480.	511.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	11 ##	2.	3.455	12.	2.	8.873	2.979	2.	2.	4.	10.4
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.2	8.167	8.3	8.1	0.004	0.065	8.1	8.1	8.2	8.27
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.2	8.162	8.3	8.1	0.004	0.065	8.1	8.1	8.2	8.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.006	0.007	0.008	0.005	0.	0.001	0.005	0.006	0.008	0.008
00406	PH, FIELD, STANDARD UNITS SU	11/16/87-09/07/88	11	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/16/87-09/07/88	11	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/87-09/07/88	11	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	237.5	239.583	266.	230.	111.72	10.57	230.	230.75	246.	261.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	8.5	10.75	36.	0.5	112.477	10.606	0.5	0.5	17.75	30.9
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	11	0.17	0.196	0.5	0.07	0.016	0.128	0.072	0.1	0.26	0.46
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	11	3.1	3.218	5.7	1.3	1.492	1.221	1.44	2.2	4.1	5.42
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	11	0.028	0.047	0.144	0.013	0.002	0.043	0.014	0.022	0.047	0.139
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	282.	291.5	388.	234.	1457.545	38.178	244.8	274.	300.5	371.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	10.	10.	11.	8.	1.091	1.044	8.3	9.	11.	11.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	28.	28.364	32.	26.	4.655	2.157	26.	26.	30.	32.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	75.	75.	80.	70.	50.	7.071	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	125.	184.167	458.	48.	19814.879	140.765	48.	73.	275.	446.6
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12 ##	10.	14.667	48.	8.	137.697	11.734	8.6	10.	11.5	42.
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	621.	621.	1240.	2.	766322.	875.398	**	**	**	**

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

Parameter Inventory for Station: HAFE0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	100.	111.833	300.	20.	6361.061	79.756	28.4	52.5	165.	270.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	1	0.50	2	1	0.50									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0068

NPS Station ID: HAFE0068
LAT/LON: 39.275003/ -77.786115
Agency: 1113UPEN
Date Created: / /
Location: U.S.STEEL MILLVILLE UPSTREAM
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POTOMAC 074 /074 /USS 02
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 5.460
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070004010100.45
RF3 Mile Point: 0.45
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0068

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: HAFE0069

NPS Station ID: HAFE0069 | LAT/LON: 39.290031/ -77.787420 | Agency: 21WV7IWQ | Date Created: 06/05/82
Location: Shenandoah River at Millville, W. VA. | FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/FISH/STREAM/TISSUE | STORET Station ID(s): 550870 /S-003
RMI-Indexes: 0214001 004230 | Within Park Boundary: No
RMI-Miles: 0169.70 0004.00
HUC: 02070007 | Depth of Water: 0 | Aquifer:
Major Basin: Mid Atlantic | Elevation: 0 | Water Body Id: WVS
Minor Basin: Potomac River / Shenandoah River | ECO Region: 66G
RF1 Index: 02070007001 | RF1 Mile Point: 4.450 | Distance from RF1: 0.00 | On/Off RF1: ON
RF3 Index: 02070007017800.00 | RF3 Mile Point: 0.68 | Distance from RF3: 0.23 | On/Off RF3:
Description:
A Bank Sample of the Shenandoah River about 600 Feet downstream and Northwest of Mouth of Flowing Spring Run and at Community of Millville, Jefferson County, West Virginia. A One Time Intensive Stream Survey Station. Data collected and analyzed by Division of Water Resources, W. VA. Dept. of Natural Resources, Charleston, West Virginia.
*** FISH AND TISSUE COLLECTION AND ANALYSIS *** **> Charles Town, WV-MD-VA Quadrangle 7.5 Minute Topographic Map <**

Parameter Inventory for Station: HAFE0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-12/09/63	38	19.	17.342	29.	0.	76.177	8.728	3.8	8.75	24.25	27.
00019	SAMPLE WEIGHT IN GRAMS	10/11/89-10/28/93	12	145.	417.667	1738.	68.	277196.97	526.495	68.6	76.5	669.	1540.
00023	SAMPLE WEIGHT IN POUNDS	10/11/89-10/28/93	12	0.4	1.217	5.87	0.12	2.863	1.692	0.144	0.23	1.87	4.904
00024	SAMPLE LENGTH IN INCHES	10/11/89-10/28/93	12	8.96	11.556	24.8	6.1	38.493	6.204	6.22	6.638	17.623	22.733
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-12/09/63	34	895.5	1532.735	10207.	401.	3333078.746	1825.672	632.5	780.75	1410.75	3564.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/02/62-12/09/63	24	10.5	14.042	43.	2.	148.476	12.185	2.	3.5	20.75	36.5
00300	OXYGEN, DISSOLVED MG/L	09/18/46-12/09/63	38	9.3	9.713	14.2	6.1	4.853	2.203	7.19	7.85	11.65	13.28
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-12/09/63	38	95.	97.737	144.	63.	274.415	16.565	75.9	89.	103.25	123.2
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-12/09/63	38	1.9	2.716	7.7	0.3	4.218	2.054	0.59	1.2	4.525	6.13
00400	PH (STANDARD UNITS)	09/18/46-12/09/63	38	7.8	7.916	9.1	7.1	0.219	0.468	7.4	7.5	8.225	8.52
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-12/09/63	38	7.8	7.723	9.1	7.1	0.257	0.507	7.4	7.5	8.225	8.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-12/09/63	38	0.016	0.019	0.079	0.001	0.	0.016	0.003	0.006	0.032	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	38	127.5	129.368	268.	68.	1120.617	33.476	86.6	111.75	147.	151.6
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	09/18/46-10/18/49	14 ##	0.5	0.464	1.	0.	0.095	0.308	0.	0.375	0.5	1.
00500	RESIDUE, TOTAL (MG/L)	10/13/49-12/09/63	25	253.	253.48	393.	160.	3028.01	55.027	194.	207.5	295.5	323.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/02/62-12/09/63	22	204.5	203.409	305.	101.	2625.777	51.242	134.5	167.75	239.25	287.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/02/62-12/09/63	22	25.5	41.364	220.	1.	2216.338	47.078	8.3	11.75	60.75	80.7
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	37	164.	164.243	234.	100.	984.911	31.383	120.4	142.	184.	208.8
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-12/09/63	38	10.5	11.237	20.	1.	19.969	4.469	6.	9.	13.25	18.1
00945	SULFATE, TOTAL (MG/L AS SO4)	02/07/62-12/09/63	23	15.	37.522	125.	0.	1869.17	43.234	0.	0.	82.	101.4
01360	SAMPLE LENGTH CM	10/11/89-10/28/93	12	21.	27.25	56.	15.	207.114	14.391	15.	15.25	42.25	52.4
01361	SAMPLE LENGTH-MAXIMUM CM	10/11/89-10/28/93	12	24.	31.5	70.	16.	306.636	17.511	16.3	18.25	47.75	63.7
01362	SAMPLE WEIGHT-MAXIMUM G	10/11/89-10/28/93	12	231.	461.417	1460.	128.	206674.629	454.615	130.4	145.	860.25	1344.2
01371	SAMPLE, AVERAGE LENGTH BIOLOGICAL TISS.COMP. CM	10/11/89-10/28/93	12	22.75	29.35	63.	15.5	248.39	15.76	15.8	16.85	44.75	57.75
01373	SAMPLE, AVG WT BIOLOGICAL TISS OF COMPOSITE GRAMS	10/11/89-10/28/93	12	181.	551.833	2660.	55.	588563.424	767.179	65.5	103.75	850.	2222.9
03886	MERCURY,TOTAL, IN FISH, WET WEIGHT MG/KG	09/01/78-09/01/78	2	0.155	0.155	0.19	0.12	0.002	0.049	**	**	**	**
03906	CHLORDANE, WET WEIGHT, FISH TISSUE UG/G	09/01/78-09/01/78	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	33	550.	81920.788	1500000.	10.91028360806.735		301709.066	35.6	75.	2100.	88000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	33	2.74	2.922	6.176	1.	1.664	1.29	1.529	1.849	3.322	4.921

** - Less 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: HAFE0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			835.302								
34258	B-BHC-BETA WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34664	PCB - 1221 WET WGTTISMG/KG	09/01/78-10/11/89	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	09/01/78-10/11/89	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	09/01/78-10/11/89	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	09/01/78-10/28/93	14	0.435	1.43	4.89	0.025	3.5	1.871	0.07	0.195	3.854	4.595
34674	PCB - 1016 WET WGTTISMG/KG	09/01/78-10/11/89	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34684	DIELDRIN TISMG/KG	09/01/78-09/01/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	09/01/78-10/11/89	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39015	ETHYLPARATHION, FLAME IONIFATION,WTR SMPLE(UG/L)	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/01/78-09/01/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/01/78-09/01/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/01/78-09/01/78	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/01/78-09/01/78	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	09/01/78-09/01/78	2	0.11	0.11	0.13	0.09	0.001	0.028	**	**	**	**
39317	P,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	09/01/78-09/01/78	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/01/78-09/01/78	2	0.11	0.11	0.13	0.09	0.001	0.028	**	**	**	**
39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	09/01/78-10/11/89	8 ##	0.	0.068	0.29	0.	0.016	0.125	**	**	**	**
39525	PCBS TOTAL,FISH TISSUE WET (ISOMER ANALYSES) MG/KG	09/01/78-10/28/93	14	0.435	1.449	4.89	0.11	3.451	1.858	0.15	0.245	3.855	4.595
45554	O,P'-DDD IN TISSUE WET WEIGHT UG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
49289	INVALID PARAMETER	10/11/89-10/28/93	12	0.75	2.727	10.7	0.24	12.449	3.528	0.285	0.505	5.623	9.74
49375	INVALID PARAMETER	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/01/78-09/01/78	2	2.1	2.1	2.5	1.7	0.32	0.566	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/01/78-09/01/78	2	0.74	0.74	1.3	0.18	0.627	0.792	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/01/78-09/01/78	2	1.95	1.95	2.1	1.8	0.045	0.212	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/01/78-09/01/78	2	0.16	0.16	0.17	0.15	0.	0.014	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/01/78-10/28/93	14	5.	4.714	5.	3.	0.374	0.611	3.5	4.75	5.	5.
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81654	ISODRIN IN FISH TISSUE WET WEIGHT MG/KG	09/01/78-09/01/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	09/01/78-09/01/78	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/01/78-09/01/78	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 time series plot

EPA Water Quality Criteria Analysis for Station: HAFE0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	24	0	0.00	6	0	0.00	10	0	0.00	8	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	38	0	0.00	20	0	0.00	10	0	0.00	8	0	0.00			
00400	PH	Other-Hi Lim.	9.	38	1	0.03	20	1	0.05	10	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	38	0	0.00	20	0	0.00	10	0	0.00	8	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	38	0	0.00	20	0	0.00	10	0	0.00	8	0	0.00			
		Drinking Water	250.	38	0	0.00	20	0	0.00	10	0	0.00	8	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	23	0	0.00	6	0	0.00	9	0	0.00	8	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	29 &	19	0.66	12	10	0.83	9	5	0.56	8	4	0.50			
39015	ETHYLPARATHION, FLAME IONIFATION, WATER	Fresh Acute	0.065	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

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-12/09/63	20	22.5	22.85	29.	17.	14.766	3.843	18.	19.25	27.	27.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-12/09/63	19	786.	776.263	1020.	401.	20050.205	141.599	562.	740.	891.	904.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-12/09/63	20	8.65	8.945	11.8	6.1	2.788	1.67	6.93	7.7	10.675	11.56
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-12/09/63	20	101.	101.7	129.	72.	249.063	15.782	81.4	89.75	118.	124.8
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-12/09/63	20	1.5	2.575	7.7	0.3	5.166	2.273	0.5	0.825	4.5	6.37
00400	PH (STANDARD UNITS)	09/18/46-12/09/63	20	8.2	8.17	9.1	7.5	0.214	0.462	7.51	7.8	8.475	8.88
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-12/09/63	20	8.2	7.964	9.1	7.5	0.258	0.508	7.51	7.8	8.475	8.88
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-12/09/63	20	0.006	0.011	0.032	0.001	0.	0.01	0.001	0.003	0.016	0.031
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	20	141.	130.65	157.	77.	504.976	22.472	85.8	117.5	148.	150.9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	20	179.	180.35	216.	149.	436.871	20.901	152.4	162.5	199.5	211.6
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-12/09/63	20	11.	12.3	20.	6.	20.011	4.473	7.1	9.	17.	18.9
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	16	1600.	168426.625	1500000.		26.178698500782.25	422727.454	84.8	562.5	55000.	1101000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	16	3.203	3.657	6.176	1.415	1.896	1.377	1.853	2.75	4.74	6.031
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4544.303								

** - Less 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: 11/01 to 3/20 - Station HAFE0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-12/09/63	10	5.	4.8	10.	0.	11.511	3.393	0.	1.5	8.	9.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-12/09/63	9	1400.	2755.111	10207.	787.	9332148.111	3054.856	787.	1285.	3506.	10207.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-12/09/63	10	12.2	12.04	14.2	8.1	4.158	2.039	8.22	10.875	14.	14.18
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-12/09/63	10	95.5	92.8	112.	63.	162.178	12.735	64.9	90.25	97.5	110.7
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-12/09/63	10	1.85	1.82	3.9	0.6	0.891	0.944	0.63	0.975	2.325	3.75
00400	PH (STANDARD UNITS)	09/18/46-12/09/63	10	7.6	7.68	8.1	7.4	0.053	0.23	7.41	7.5	7.9	8.08
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-12/09/63	10	7.6	7.631	8.1	7.4	0.056	0.236	7.41	7.5	7.9	8.08
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-12/09/63	10	0.025	0.023	0.04	0.008	0.	0.011	0.008	0.013	0.032	0.039
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	10	128.5	123.	183.	68.	990.667	31.475	69.9	104.25	138.	178.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	10	151.	151.	234.	100.	1498.	38.704	100.4	125.	171.	228.
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-12/09/63	10	10.5	11.	20.	3.	18.444	4.295	3.6	9.	12.5	19.4
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	9	200.	464.444	2400.	10.	573827.778	757.514	10.	50.	560.	2400.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	9	2.301	2.194	3.38	1.	0.534	0.731	1.	1.699	2.746	3.38
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			156.34								

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

Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-12/09/63	8	19.	19.25	26.	9.	32.214	5.676	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-12/09/63	6	1585.	2094.667	4580.	1080.	1751666.667	1323.505	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-12/09/63	8	8.55	8.725	11.8	7.1	2.202	1.484	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-12/09/63	8	89.5	94.	144.	75.	470.286	21.686	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-12/09/63	8	4.55	4.188	6.9	1.7	3.45	1.857	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-12/09/63	8	7.55	7.575	8.2	7.1	0.114	0.337	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-12/09/63	8	7.547	7.475	8.2	7.1	0.125	0.354	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-12/09/63	8	0.028	0.034	0.079	0.006	0.001	0.023	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	8	114.5	134.125	268.	95.	3190.411	56.484	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-12/09/63	7	136.	137.143	164.	114.	265.143	16.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-12/09/63	8	10.	8.875	13.	1.	17.839	4.224	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	8	150.	547.5	2100.	20.	595278.571	771.543	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-12/09/63	8	2.151	2.269	3.322	1.301	0.529	0.727	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			185.926								

** - Less 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: HAFE0070

NPS Station ID: HAFE0070
LAT/LON: 39.277087/ -77.788892
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Cattail Run south of Millville, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550927 /S-005-01 /X-MIN-88S005
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-2
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007017606.86
RF3 Mile Point: 7.81
Distance from RF3: 0.05
On/Off RF3:
Description:
Cattail Run at County Route 27 Highway Bridge south of Community of Millville, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department
of Natural Resouces, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988
> Charles Town, WV-VA-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	12	12.5	11.333	20.	0.	31.515	5.614	1.2	7.75	15.5	19.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/06/87-10/06/87	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/16/87-09/07/88	11	480.	478.182	520.	440.	856.364	29.264	440.	450.	500.	520.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	12	6.	7.	20.	2.	30.909	5.56	2.	2.	11.	17.6
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.2	8.242	8.5	8.	0.017	0.131	8.03	8.2	8.3	8.47
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.2	8.224	8.5	8.	0.018	0.132	8.03	8.2	8.3	8.47
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.006	0.006	0.01	0.003	0.	0.002	0.003	0.005	0.006	0.009
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	12	8.	8.042	8.5	8.	0.021	0.144	8.	8.	8.	8.35
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/07/88	12	8.	8.025	8.5	8.	0.021	0.145	8.	8.	8.	8.35
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.01	0.009	0.01	0.003	0.	0.002	0.005	0.01	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	242.	238.	248.	215.	96.909	9.844	219.2	230.5	245.	248.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	37.	43.667	92.	2.	1098.606	33.145	2.6	9.	76.75	90.5
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	12	0.485	0.593	1.51	0.2	0.151	0.389	0.209	0.29	0.827	1.342
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	12	4.8	4.767	6.1	3.3	0.902	0.95	3.33	3.8	5.6	6.04
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	12	0.104	0.143	0.56	0.019	0.02	0.142	0.03	0.069	0.176	0.456
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	284.	290.	326.	250.	410.182	20.253	258.4	280.5	303.	324.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	14.	14.583	19.	12.	3.538	1.881	12.3	13.25	15.	18.4
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	26.	28.182	46.	24.	38.764	6.226	24.	24.	28.	42.8
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.8	0.8	0.9	0.7	0.02	0.141	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	95.	95.	110.	80.	450.	21.213	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	5.	5.	6.	4.	2.	1.414	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	618.	809.333	2400.	128.	467298.424	683.592	170.	377.5	895.	2262.
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12	31.	36.333	78.	10.	419.515	20.482	12.4	19.5	54.5	72.6
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	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

Parameter Inventory for Station: HAFE0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	17.	17.	24.	10.	98.	9.899	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	352.	545.083	1800.	43.	298060.265	545.949	61.3	203.5	662.5	1698.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.125	0.125	0.2	0.05	0.011	0.106	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0070

				Total	Exceed	Prop.	8/01-10/31			11/01-3/20			3/21-7/31			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0071

NPS Station ID: HAFE0071
Location: U.S.STEEL MILLVILLE EFFLUENT 02
Station Type: /TYPA/IND/TREATD/OUTFL/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 02070007
Major Basin: NORTH ATLANTIC
Minor Basin: POTOMAC
RF1 Index: 02070007001
RF3 Index: 02070004010100.45
Description:

LAT/LON: 39.281393/ -77.788892

Depth of Water: 1
Elevation: 0

RF1 Mile Point: 5.030
RF3 Mile Point: 0.45

Agency: 1113UPEN
FIPS State/County: 54000 WEST VIRGINIA/
STORET Station ID(s): POTOMAC 073 /073 /USS 01
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.01

Date Created: / /

On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: HAFE0071

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: HAFE0072

NPS Station ID: HAFE0072
LAT/LON: 39.281948/ -77.789449
Agency: 112WRD
Date Created: / /
Location: SHENANDOAH R AT MILLVILLE, WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01636500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 2.00
On/Off RF1:
RF3 Index: 02070004000904.37
RF3 Mile Point: 4.73
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	233	16.	15.029	29.	0.	76.35	8.738	3.	7.	23.	26.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	208	17.	16.333	35.	-8.	94.553	9.724	4.	-3.	24.425	28.55
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-03/16/95	92	757.	758.88	779.	746.	45.293	6.73	751.	754.	764.	768.7
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	05/06/91-05/06/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-06/19/61	3	1360.	5024.	12900.	812.	46598608.	6826.317	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	237	1590.	3542.338	140000.	6.	94127644.869	9701.94	534.2	784.	3375.	8006.
00065	STAGE, STREAM (FEET)	03/17/81-03/16/95	96	2.74	3.602	25.5	1.35	9.228	3.038	1.637	2.008	4.088	6.224
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	96	3.25	24.125	1600.	0.2	26574.083	163.016	0.8	1.5	8.	21.5
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-06/19/61	3	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	164	340.	355.366	714.	93.	13325.264	115.435	205.5	273.5	425.75	510.
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	128	9.6	10.059	17.4	4.9	6.118	2.473	7.3	8.125	11.675	14.01
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/28/60-01/06/86	7	94.	94.429	116.	71.	189.619	13.77	**	**	**	**
00400p	PH (STANDARD UNITS)	09/28/60-03/16/95	163	8.05	8.029	9.11	6.09	0.277	0.526	7.34	7.7	8.4	8.7
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	163	8.05	7.626	9.11	6.09	0.44	0.663	7.34	7.7	8.4	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	163	0.009	0.024	0.813	0.001	0.005	0.069	0.002	0.004	0.02	0.046
00403	PH, LAB, STANDARD UNITS SU	09/14/81-03/16/95	98	8.2	8.12	8.9	7.3	0.108	0.329	7.69	7.9	8.3	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	09/14/81-03/16/95	98	8.2	7.995	8.9	7.3	0.124	0.352	7.69	7.9	8.3	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/81-03/16/95	98	0.006	0.01	0.05	0.001	0.	0.009	0.003	0.005	0.013	0.02
00405	CARBON DIOXIDE (MG/L AS CO2)	09/28/60-01/06/86	38	1.05	2.139	20.	0.4	11.368	3.372	0.49	0.6	2.15	4.47
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-05/25/93	67	107.	91.896	160.	0.	2404.489	49.036	0.	61.	130.	142.
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	05/11/87-05/11/87	1	128.	128.	128.	128.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-01/06/94	14	0.	60.714	188.	0.	5985.451	77.366	0.	0.	153.5	177.
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-01/06/94	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	11/09/87-11/09/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	03/05/87-11/09/87	5	128.	111.	188.	0.	5752.	75.842	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	11/09/87-11/07/94	19	7.	40.947	144.	0.	2965.497	54.456	0.	6.	97.	143.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-03/16/95	44	141.	134.591	199.	56.	1316.433	36.283	78.	105.25	164.75	175.
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	06/23/94-06/23/94	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	06/23/94-06/23/94	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	08/31/76-09/14/81	27	1.6	1.809	3.6	0.86	0.461	0.679	1.074	1.3	2.3	2.82
00602	NITROGEN, DISSOLVED (MG/L AS N)	09/05/79-11/06/85	16	1.45	1.565	3.1	0.4	0.497	0.705	0.638	1.1	2.025	2.89
00603	NITROGEN TOTAL, BOTTOM DEPOSITS (MG/KG-N DRY WGT)	05/17/72-05/17/72	1	1.04	1.04	1.04	1.04	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-01/06/86	30	0.685	0.789	3.2	0.15	0.367	0.606	0.203	0.345	0.972	1.57
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/28/79-11/06/85	15	0.39	0.432	1.3	0.12	0.089	0.298	0.138	0.19	0.49	1.018
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-03/16/95	112	0.04	0.042	0.21	0.	0.001	0.033	0.005	0.02	0.05	0.08
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-08/31/92	67	0.04	0.061	0.45	0.005	0.004	0.067	0.01	0.02	0.08	0.134
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	08/31/76-08/31/76	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-03/16/95	73	0.01	0.011	0.02	0.005	0.	0.006	0.005	0.005	0.02	0.02

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

Parameter Inventory for Station: HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-08/31/92	13	0.01	0.012	0.03	0.005	0.	0.009	0.005	0.005	0.02	0.026
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/06/85-09/04/90	4	1.34	1.263	1.6	0.77	0.124	0.353	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-08/31/76	2	0.6	0.6	1.2	0.	0.72	0.849	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	55	0.3	0.33	1.3	0.1	0.047	0.217	0.1	0.2	0.43	0.594
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	03/29/79-11/06/85	26	0.27	0.465	2.9	0.	0.363	0.602	0.	0.118	0.565	1.12
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	123	0.5	0.624	3.6	0.1	0.203	0.451	0.208	0.3	0.85	1.2
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	08/31/76-08/31/76	1	3900.	3900.	3900.	3900.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-08/31/92	39	1.1	1.079	2.6	0.01	0.307	0.554	0.25	0.76	1.4	1.7
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-03/16/95	113	1.1	1.105	2.3	0.02	0.206	0.454	0.5	0.8	1.4	1.6
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	08/31/76-08/31/76	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/25/79-06/12/79	5	0.58	0.506	0.67	0.18	0.037	0.193	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/02/81-01/06/86	13	0.21	0.243	0.64	0.09	0.022	0.149	0.102	0.15	0.31	0.544
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	124	0.09	0.122	1.8	0.	0.03	0.172	0.03	0.05	0.14	0.2
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	123	0.06	0.063	0.23	0.005	0.002	0.041	0.02	0.03	0.09	0.12
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	05/17/72-08/31/76	2	170.2	170.2	340.	0.4	57664.08	240.133	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-03/16/95	96	0.04	0.049	0.21	0.005	0.001	0.037	0.005	0.02	0.07	0.1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/31/76-09/14/81	17	4.9	4.994	11.	0.5	6.397	2.529	1.3	3.45	6.3	9.08
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-03/16/95	37	2.6	2.916	6.5	1.8	1.087	1.043	2.1	2.2	3.15	4.68
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/31/76-08/31/76	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-03/16/95	37	0.4	0.941	8.7	0.1	2.349	1.533	0.2	0.3	0.8	2.26
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/28/60-04/18/61	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/06/86	65	137.	139.415	240.	53.	1600.653	40.008	82.2	111.	170.	194.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/06/86	39	23.	24.282	50.	6.	93.418	9.665	12.	16.	30.	38.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	129	38.	37.186	70.	17.	85.215	9.231	24.	31.	43.	48.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	129	11.	10.796	17.	2.6	13.4	3.661	5.3	7.6	14.	16.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	128	11.	16.323	75.	2.3	186.724	13.665	4.28	6.625	24.	36.1
00931	SODIUM ADSORPTION RATIO	09/28/60-01/06/86	45	0.6	0.687	1.5	0.1	0.128	0.358	0.2	0.35	1.	1.2
00932	SODIUM, PERCENT	09/28/60-01/06/86	44	21.	21.318	32.	8.	56.873	7.541	11.	15.	28.	31.
00933	SODIUM,PLUS POTASSIUM (MG/L)	06/04/79-03/20/80	11	15.	20.345	40.	7.1	165.795	12.876	7.14	8.4	32.	39.8
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	127	2.3	2.332	5.3	1.	0.403	0.635	1.6	1.8	2.7	3.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	148	12.	13.203	35.	3.	42.965	6.555	6.	8.	16.	23.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	128	25.	38.172	160.	9.	897.183	29.953	13.	16.	55.	84.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	128	0.1	0.116	0.3	0.	0.004	0.06	0.05	0.1	0.2	0.2
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	128	4.75	4.353	11.	0.	6.356	2.521	0.7	2.1	6.4	7.42
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	49	1.	1.051	4.	0.	0.596	0.772	0.5	0.5	1.	2.
01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/29/79-09/20/82	13	0.	0.231	1.	0.	0.151	0.388	0.	0.	0.5	1.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-09/20/82	14	1.	1.357	3.	0.	0.555	0.745	0.5	1.	2.	2.5
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	05/17/72-08/31/76	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	58	34.5	34.621	51.	0.	78.38	8.853	23.9	30.	40.	47.3
01006	BARIUM, SUSPENDED (UG/L AS BA)	03/29/79-09/20/82	10	60.	47.	100.	0.	1090.	33.015	0.	7.5	62.5	97.
01007	BARIUM, TOTAL (UG/L AS BA)	03/29/79-09/20/82	13 ##	50.	59.615	100.	0.	1306.09	36.14	10.	25.	100.	100.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	36 ##	0.25	0.294	1.	0.	0.028	0.168	0.25	0.25	0.25	0.5
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	49 ##	0.5	0.755	4.	0.	0.564	0.751	0.5	0.5	1.	1.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/29/79-09/20/82	11	0.	0.182	2.	0.	0.364	0.603	0.	0.	0.	1.6
01027	CADMIUM, TOTAL (UG/L AS CD)	08/31/76-09/20/82	14	0.5	0.714	3.	0.	0.797	0.893	0.	0.	1.	2.5
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	2	0.3	0.3	0.6	0.	0.18	0.424	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	2	14.95	14.95	20.	9.9	51.005	7.142	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	48 ##	0.5	3.292	20.	0.5	23.924	4.891	0.5	0.5	5.	10.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	03/29/79-05/10/82	11	0.	3.636	10.	0.	25.455	5.045	0.	0.	10.	10.
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/31/76-09/20/82	14	10.	14.286	30.	10.	57.143	7.559	10.	10.	20.	30.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	58 ##	1.5	1.431	4.	0.	0.39	0.624	0.5	1.5	1.5	1.5
01036	COBALT, SUSPENDED (UG/L AS CO)	03/29/79-01/19/81	9	0.	0.111	1.	0.	0.111	0.333	0.	0.	0.	1.
01037	COBALT, TOTAL (UG/L AS CO)	08/31/76-09/20/82	14	1.	1.214	4.	0.	1.412	1.188	0.	0.	2.	3.5
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/31/76-08/31/76	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	49	2.	2.235	8.	0.	2.907	1.705	0.5	1.	3.	5.
01041	COPPER, SUSPENDED (UG/L AS CU)	03/29/79-09/20/82	13	3.	5.846	42.	0.	123.641	11.119	0.	0.5	5.5	28.
01042	COPPER, TOTAL (UG/L AS CU)	08/31/76-01/23/84	15	5.	7.867	45.	2.	111.838	10.575	2.	4.	8.	24.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	05/17/72-08/31/76	2	13.6	13.6	20.	7.2	81.92	9.051	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	03/29/79-09/20/82	12	370.	503.333	1400.	40.	217515.152	466.385	52.	132.5	610.	1400.
01045	IRON, TOTAL (UG/L AS FE)	06/19/61-09/20/82	15	320.	466.667	1400.	50.	183638.095	428.53	80.	130.	640.	1400.
01046	IRON, DISSOLVED (UG/L AS FE)	09/28/60-03/16/95	109	11.	25.935	350.	0.	2685.124	51.818	0.1	5.	27.	54.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	49	1.	1.796	10.	0.	3.343	1.828	0.	0.5	2.5	4.

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

Parameter Inventory for Station: HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01050	LEAD, SUSPENDED (UG/L AS PB)	03/29/79-09/20/82	13	8.	16.615	77.	0.	659.256	25.676	0.	3.	13.5	74.2
01051	LEAD, TOTAL (UG/L AS PB)	08/31/76-09/20/82	14	8.	18.429	79.	2.	608.879	24.675	2.5	5.25	20.75	74.5
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	05/17/72-08/31/76	2	85.	85.	140.	30.	6050.	77.782	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	05/17/72-08/31/76	2	400.	400.	530.	270.	33800.	183.848	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	03/29/79-09/20/82	13	30.	36.385	100.	4.	1020.59	31.947	4.	7.5	55.	96.
01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/60-09/20/82	17	40.	64.412	260.	5.	4987.132	70.62	9.	20.	85.	220.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-03/16/95	87	5.	7.069	80.	2.	88.67	9.416	2.	3.	8.	12.2
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	44 ##	5.	5.795	20.	5.	10.399	3.225	5.	5.	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	55	1.	1.364	6.	0.	1.662	1.289	0.5	0.5	2.	3.
01066	NICKEL, SUSPENDED (UG/L AS NI)	12/10/79-09/20/82	10	2.	1.8	5.	0.	2.844	1.687	0.	0.	2.5	4.9
01067	NICKEL, TOTAL (UG/L AS NI)	12/10/79-09/20/82	10	4.	3.5	7.	0.	3.167	1.78	0.2	2.75	4.	6.7
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	05/17/72-08/31/76	2	11.45	11.45	20.	2.9	146.205	12.092	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	58 ##	0.5	0.448	1.	0.	0.05	0.223	0.	0.5	0.5	0.5
01076	SILVER, SUSPENDED (UG/L AS AG)	03/29/79-01/19/81	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01077	SILVER, TOTAL (UG/L AS AG)	08/31/76-09/20/82	18	0.	0.111	0.5	0.	0.046	0.214	0.	0.	0.125	0.5
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	45	130.	127.289	190.	41.	1458.892	38.195	74.	93.5	160.	180.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	45 ##	3.	3.067	6.	3.	0.2	0.447	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	49	9.	14.908	150.	0.	543.195	23.307	1.5	3.5	16.	30.
01091	ZINC, SUSPENDED (UG/L ZN)	03/29/79-05/10/82	11	50.	45.273	120.	0.	1361.818	36.903	0.	8.	60.	112.
01092	ZINC, TOTAL (UG/L AS ZN)	08/31/76-09/20/82	14	50.	62.857	270.	10.	4298.901	65.566	10.	27.5	82.5	180.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	05/17/72-08/31/76	2	530.	530.	580.	480.	5000.	70.711	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/31/76-08/31/76	1	240.	240.	240.	240.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	45	10.	16.089	110.	5.	380.401	19.504	5.	5.	20.	35.6
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	45	6.	6.044	16.	2.	10.589	3.254	2.	4.	8.	10.4
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	58 ##	0.5	0.491	3.	0.	0.136	0.369	0.	0.5	0.5	0.5
01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/29/79-01/19/81	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-09/20/82	14 ##	0.5	0.286	0.5	0.	0.066	0.257	0.	0.	0.5	0.5
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	05/17/72-08/31/76	2	7350.	7350.	13000.	1700.	63845000.	7990.307	**	**	**	**
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	18 ##	0.008	0.008	0.008	0.008	0.	0.	0.008	0.008	0.008	0.008
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	18 ##	0.004	0.004	0.004	0.004	0.	0.	0.004	0.004	0.004	0.004
04029	BROMACIL, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-06/05/94	16 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	18	0.047	0.085	0.6	0.005	0.019	0.14	0.005	0.023	0.085	0.276
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	18	0.019	0.022	0.04	0.007	0.	0.01	0.008	0.014	0.031	0.039
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	03/30/93-07/07/94	18	0.031	0.031	0.087	0.01	0.	0.019	0.01	0.01	0.039	0.057
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	18 ##	0.007	0.019	0.078	0.007	0.	0.02	0.007	0.007	0.031	0.051
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	03/30/93-07/07/94	18 ##	0.004	0.004	0.004	0.004	0.	0.	0.004	0.004	0.004	0.004
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/31/76-08/31/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/31/76-08/31/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			100.								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	88	51.	384.716	6000.	0.5	906238.838	951.966	2.	16.75	227.5	1010.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	88	1.707	1.744	3.778	-0.301	0.905	0.952	0.301	1.223	2.357	3.004
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			55.414								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	89	180.	1126.18	20000.	0.5	9960323.643	3155.998	11.	35.5	670.	2133.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	89	2.255	2.186	4.301	-0.301	0.937	0.968	1.041	1.55	2.826	3.329
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			153.302								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/31/76-08/31/76	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	08/31/76-08/31/76	1	3.041	3.041	3.041	3.041	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1100.								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/28/60-04/18/61	2	0.1	0.1	0.2	0.	0.02	0.141	**	**	**	**
34253	A-BHC-ALPHA DISSUG/L	03/30/93-07/07/94	18 ##	0.004	0.004	0.004	0.004	0.	0.	0.004	0.004	0.004	0.004
34653	P,P'-DDE DISSUG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.006
34790	SURFACTANTS, AS CTAS, WATER MG/L	08/21/92-08/21/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	90.	90.	90.	90.	0.	0.	**	**	**	**
34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	61.	61.	61.	61.	0.	0.	**	**	**	**
34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	21.	21.	21.	21.	0.	0.	**	**	**	**
34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	27.	27.	27.	27.	0.	0.	**	**	**	**
34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	45.	45.	45.	45.	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: HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	16.	16.	16.	16.	0.	0.	**	**	**	**
34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34880	IRON,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	45.	45.	45.	45.	0.	0.	**	**	**	**
34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	31.	31.	31.	31.	0.	0.	**	**	**	**
34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	70.	70.	70.	70.	0.	0.	**	**	**	**
34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	40.	40.	40.	40.	0.	0.	**	**	**	**
34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	30.	30.	30.	30.	0.	0.	**	**	**	**
34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	12.	12.	12.	12.	0.	0.	**	**	**	**
34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	99.	99.	99.	99.	0.	0.	**	**	**	**
34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	15.	15.	15.	15.	0.	0.	**	**	**	**
34985	TIN,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	85.	85.	85.	85.	0.	0.	**	**	**	**
35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	27.	27.	27.	27.	0.	0.	**	**	**	**
35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	370.	370.	370.	370.	0.	0.	**	**	**	**
38442	DICAMBA (BANVEL) WATER,DISSUG/L	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38478	LINURON WATER,DISSUG/L	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38482	MCPA WATER,DISSUG/L	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38487	MCPB WATER,DISSUG/L	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38501	METHIOCARB WATER,DISSUG/L	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38538	PROPOXUR WATER,DISSUG/L	03/30/93-05/03/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38711	BENTAZON WATER, DISUG/L	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38746	2,4-DB WATER, DISUG/L	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38811	FLUOMETURON WATER, DISUG/L	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38866	OXAMYL WATER, DISUG/L	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
38933	CHLORPYRIFOS,DISSOLVED UG/L	03/30/93-07/07/94	18 ##	0.003	0.003	0.004	0.003	0.	0.001	0.003	0.003	0.003	0.004
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-03/16/95	49	122.	111.694	166.	0.	1312.175	36.224	63.	86.	139.	148.
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	03/30/93-07/07/94	18 ##	0.006	0.006	0.006	0.006	0.	0.	0.006	0.006	0.006	0.006
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	1.85	1.85	3.7	0.	6.845	2.616	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	3.5	3.5	6.	1.	12.5	3.536	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	1.75	1.75	3.5	0.	6.125	2.475	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	18 ##	0.01	0.008	0.01	0.004	0.	0.003	0.004	0.004	0.01	0.01
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/17/72-08/31/76	2	0.4	0.4	0.8	0.	0.32	0.566	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	05/17/72-08/31/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	03/30/93-07/07/94	18	0.05	0.094	0.4	0.01	0.012	0.109	0.019	0.03	0.11	0.31
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/17/72-08/31/76	2 ##	1.25	1.25	2.5	0.	3.125	1.768	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	18 ##	0.005	0.005	0.007	0.005	0.	0.001	0.005	0.005	0.006	0.007
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	18 ##	0.011	0.011	0.011	0.011	0.	0.	0.011	0.011	0.011	0.011
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-07/07/94	18 ##	0.004	0.005	0.017	0.004	0.	0.003	0.004	0.004	0.004	0.005
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	03/30/93-07/07/94	18	0.09	0.112	0.5	0.01	0.012	0.111	0.019	0.038	0.153	0.221
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-06/05/94	15 ##	0.025	0.031	0.11	0.025	0.	0.022	0.025	0.025	0.025	0.059
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39742	2,4,5-T IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-06/05/94	15 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE (UG/L)	03/30/93-06/05/94	15 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	08/31/76-08/31/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	03/30/93-07/07/94	18 ##	0.005	0.007	0.03	0.005	0.	0.006	0.005	0.005	0.006	0.012
49235	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49236	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49291	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49292	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49293	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49294	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49295	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49296	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49297	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49298	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49299	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49300	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49301	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49302	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49303	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49304	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49305	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49306	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49307	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49308	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49309	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49310	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49311	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49312	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49313	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49314	INVALID PARAMETER	03/30/93-06/05/94	11 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
49315	INVALID PARAMETER	03/30/93-06/05/94	10 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025

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

Parameter Inventory for Station: HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
60050	ALGAE, TOTAL (CELLS/ML)	03/29/79-09/14/81	14	11500.	47067.857	360000.	350.	8858152156.593	94117.757	875.	2200.	55500.	225500.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	128	184.	197.625	436.	83.	4784.724	69.172	120.8	148.	248.5	297.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/06/86	44	190.	201.068	400.	77.	6188.112	78.665	102.5	140.	259.	305.
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-01/06/86	44	1240.	2424.477	31400.	358.	21943390.953	4684.377	452.	662.5	2750.	4640.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-01/06/86	45	0.26	0.288	0.54	0.11	0.012	0.11	0.15	0.21	0.37	0.434
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	92	92.5	86.641	100.	29.	192.167	13.862	64.3	78.	96.	100.
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/31/76-08/31/92	12	0.06	0.063	0.15	0.02	0.002	0.04	0.023	0.03	0.07	0.144
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	06/23/94-06/23/94	1	61.	61.	61.	61.	0.	0.	**	**	**	**
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	06/23/94-06/23/94	1	24.	24.	24.	24.	0.	0.	**	**	**	**
71820	DENSITY (GM/ML AT 20 C)	07/01/86-07/01/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	01/05/87-01/05/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/29/79-01/19/81	24	0.075	0.096	0.3	0.01	0.006	0.079	0.015	0.04	0.175	0.2
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/06/86	30	0.06	0.067	0.27	0.	0.004	0.063	0.	0.03	0.08	0.185
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/19/61-06/19/61	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-01/06/86	3	2.6	4.	7.1	2.3	7.23	2.689	**	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	11/06/85-01/06/86	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/06/86	46	0.385	0.545	5.5	0.	0.633	0.795	0.12	0.28	0.55	0.749
71887	NITROGEN, TOTAL, AS NO3 - MG/L	08/31/76-09/14/81	26	6.8	7.612	13.	3.8	6.468	2.543	4.58	5.55	9.475	12.
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	47 ##	0.05	0.106	0.6	0.05	0.013	0.115	0.05	0.05	0.1	0.21
71895	MERCURY, SUSPENDED (UG/L AS HG)	03/29/79-09/20/82	7	0.	0.	0.	0.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/31/76-09/20/82	13 ##	0.1	0.138	0.5	0.05	0.018	0.133	0.05	0.05	0.225	0.4
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	05/17/72-08/31/76	2	0.165	0.165	0.3	0.03	0.036	0.191	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-08/01/94	112	13.	46.018	1854.	1.	31761.351	178.217	4.	6.	29.	82.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-01/06/86	35	106.	1264.866	12400.	3.9	6490647.641	2547.675	12.32	19.	1360.	4882.
80220	SUSPENDED SAND CONCENTRATION (>.0625MM) MG/L	09/04/90-10/22/90	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/19/81-03/17/81	2	1.85	1.85	2.1	1.6	0.125	0.354	**	**	**	**
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.01	0.003	0.	0.001	0.005	0.005	0.005	0.006
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	03/30/93-07/07/94	18 ##	0.003	0.003	0.003	0.001	0.	0.	0.003	0.003	0.003	0.003
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.006	0.003	0.	0.001	0.005	0.005	0.005	0.005
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.003	0.	0.001	0.005	0.005	0.005	0.005
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.009	0.01	0.005	0.	0.002	0.005	0.005	0.01	0.01
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.015	0.014	0.015	0.005	0.	0.002	0.014	0.015	0.015	0.015
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.02	0.019	0.02	0.005	0.	0.004	0.019	0.02	0.02	0.02
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	03/30/93-07/07/94	18 ##	0.02	0.019	0.02	0.005	0.	0.004	0.019	0.02	0.02	0.02
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.003	0.003	0.005	0.001	0.	0.001	0.002	0.003	0.003	0.003
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.009	0.01	0.004	0.	0.002	0.005	0.008	0.01	0.01
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.004	0.003	0.004	0.003	0.	0.	0.003	0.004	0.004	0.004
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.003	0.	0.001	0.005	0.005	0.005	0.005
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.004	0.	0.	0.004	0.005	0.005	0.005
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.003	0.	0.001	0.005	0.005	0.005	0.005
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.011	0.03	0.004	0.	0.007	0.004	0.01	0.01	0.03
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.004	0.004	0.004	0.002	0.	0.001	0.002	0.004	0.004	0.004
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.01	0.01	0.003	0.	0.002	0.009	0.01	0.01	0.01
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.025	0.024	0.025	0.004	0.	0.005	0.023	0.025	0.025	0.025
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.004	0.004	0.004	0.004	0.	0.	0.004	0.004	0.004	0.004
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.002	0.002	0.003	0.001	0.	0.	0.002	0.002	0.002	0.002
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.01	0.01	0.005	0.	0.001	0.01	0.01	0.01	0.01
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.001	0.	0.001	0.005	0.005	0.005	0.005
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.005	0.005	0.005	0.003	0.	0.001	0.003	0.004	0.005	0.005
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.02	0.021	0.04	0.005	0.	0.006	0.019	0.02	0.021	0.027
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	03/30/93-07/07/94	18 ##	0.01	0.01	0.01	0.005	0.	0.001	0.01	0.01	0.01	0.01

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

EPA Water Quality Criteria Analysis for Station: HAFE0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	96	2	0.02	23	0	0.00	39	2	0.05	34	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	128	0	0.00	34	0	0.00	45	0	0.00	49	0	0.00			
00400	PH	Other-Hi Lim.	9.	163	5	0.03	48	3	0.06	54	1	0.02	61	1	0.02			
		Other-Lo Lim.	6.5	163	1	0.01	48	1	0.02	54	0	0.00	61	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	98	0	0.00	22	0	0.00	40	0	0.00	36	0	0.00			
		Other-Lo Lim.	6.5	98	0	0.00	22	0	0.00	40	0	0.00	36	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	73	0	0.00	16	0	0.00	28	0	0.00	29	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	6	0	0.00	4	0	0.00	3	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	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.	39	0	0.00	13	0	0.00	11	0	0.00	15	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	113	0	0.00	25	0	0.00	46	0	0.00	42	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	148	0	0.00	37	0	0.00	54	0	0.00	57	0	0.00			
		Drinking Water	250.	148	0	0.00	37	0	0.00	54	0	0.00	57	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	128	0	0.00	29	0	0.00	48	0	0.00	51	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	128	0	0.00	29	0	0.00	48	0	0.00	51	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
		Drinking Water	50.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	50.	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	50.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	58	0	0.00	18	0	0.00	25	0	0.00	15	0	0.00			
01006	BARIUM, SUSPENDED	Drinking Water	2000.	10	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	36	0	0.00	12	0	0.00	15	0	0.00	9	0	0.00			
		Drinking Water	4.	36	0	0.00	12	0	0.00	15	0	0.00	9	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	49	1	0.02	15	0	0.00	21	0	0.00	13	1	0.08			
		Drinking Water	5.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	5.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	5.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	48	0	0.00	15	0	0.00	20	0	0.00	13	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
		Drinking Water	1300.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	13	1	0.08	3	0	0.00	6	1	0.17	4	0	0.00			
		Drinking Water	1300.	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	15	1	0.07	4	0	0.00	7	1	0.14	4	0	0.00			
		Drinking Water	1300.	15	0	0.00	4	0	0.00	7	0	0.00	4	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
		Drinking Water	15.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
01050	LEAD, SUSPENDED	Fresh Acute	82.	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	15.	13	3	0.23	3	0	0.00	6	2	0.33	4	1	0.25			
01051	LEAD, TOTAL	Fresh Acute	82.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	15.	14	4	0.29	4	1	0.25	6	2	0.33	4	1	0.25			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	55	0	0.00	17	0	0.00	25	0	0.00	13	0	0.00			
		Drinking Water	100.	55	0	0.00	17	0	0.00	25	0	0.00	13	0	0.00			
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	10	0	0.00	2	0	0.00	6	0	0.00	2	0	0.00			
		Drinking Water	100.	10	0	0.00	2	0	0.00	6	0	0.00	2	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	10	0	0.00	2	0	0.00	6	0	0.00	2	0	0.00			
		Drinking Water	100.	10	0	0.00	2	0	0.00	6	0	0.00	2	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	58	0	0.00	18	0	0.00	25	0	0.00	15	0	0.00			
		Drinking Water	100.	58	0	0.00	18	0	0.00	25	0	0.00	15	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0072

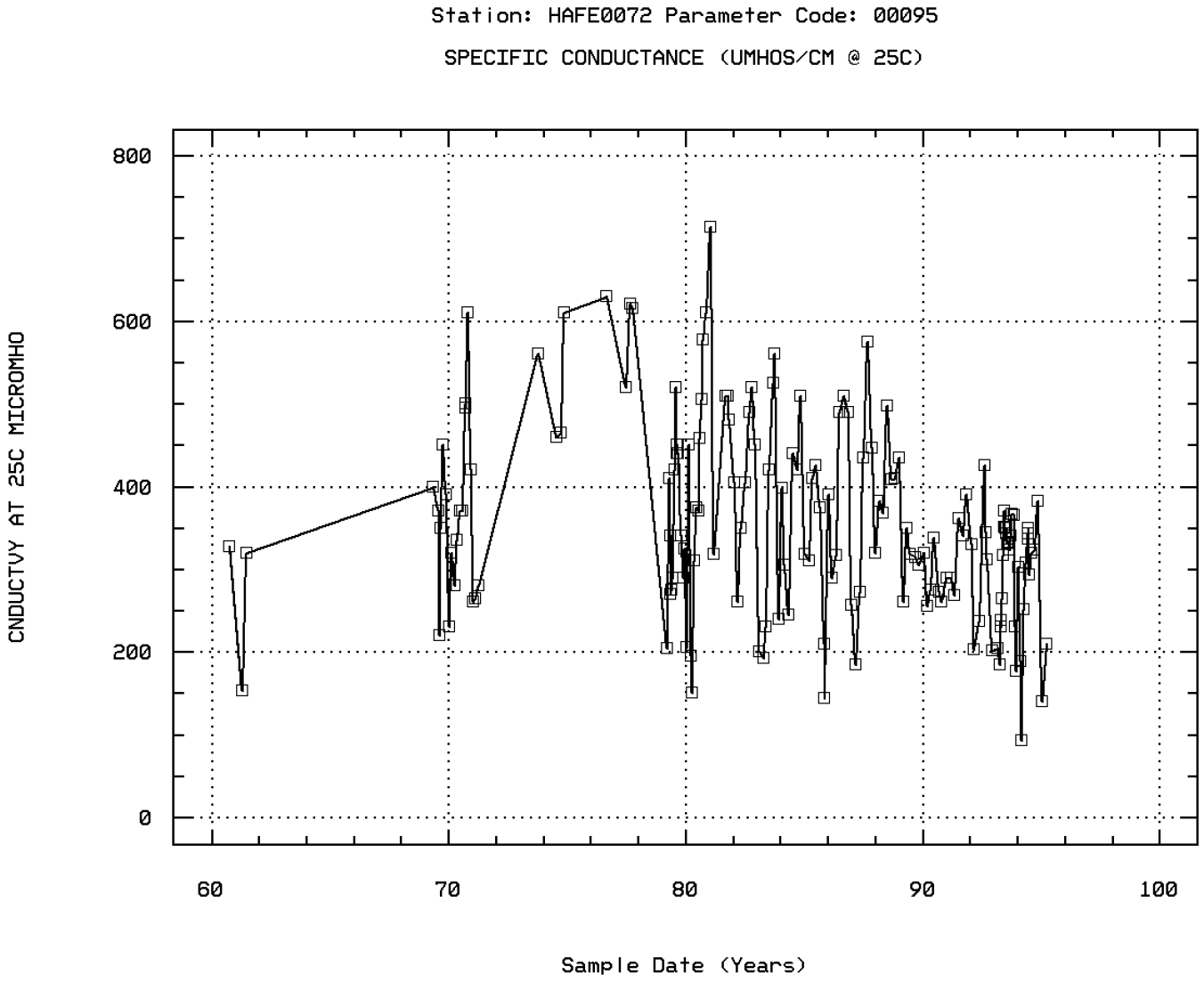
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01076	SILVER, SUSPENDED	Fresh Acute	4.1	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	100.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	18	0	0.00	5	0	0.00	8	0	0.00	5	0	0.00			
		Drinking Water	100.	18	0	0.00	5	0	0.00	8	0	0.00	5	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	49	1	0.02	15	0	0.00	21	1	0.05	13	0	0.00			
		Drinking Water	5000.	49	0	0.00	15	0	0.00	21	0	0.00	13	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	11	1	0.09	2	0	0.00	5	1	0.20	4	0	0.00			
		Drinking Water	5000.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	14	1	0.07	4	0	0.00	6	1	0.17	4	0	0.00			
		Drinking Water	5000.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	58	0	0.00	18	0	0.00	25	0	0.00	15	0	0.00			
		Drinking Water	50.	58	0	0.00	18	0	0.00	25	0	0.00	15	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
		Drinking Water	50.	9	0	0.00	2	0	0.00	4	0	0.00	3	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	50.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	88	24	0.27	23	6	0.26	33	7	0.21	32	11	0.34			
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
38866	OXAMYL, DISSOLVED	Drinking Water	200.	11	0	0.00	2	0	0.00	2	0	0.00	7	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
		Drinking Water	0.2	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.4	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00	1	0	0.00									
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	1	0	0.00	1	0	0.00									
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	15	0	0.00	2	0	0.00	2	0	0.00	11	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	1	0	0.00	1	0	0.00									
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	15	0	0.00	2	0	0.00	2	0	0.00	11	0	0.00			
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	18	0	0.00	2	0	0.00	2	0	0.00	14	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00				2	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	47	0	0.00	13	0	0.00	21	0	0.00	13	0	0.00			
		Drinking Water	2.	47	0	0.00	13	0	0.00	21	0	0.00	13	0	0.00			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	7	0	0.00	1	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	2.	7	0	0.00	1	0	0.00	4	0	0.00	2	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0072

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			
	Drinking Water	2.	13	0	0.00	3	0	0.00	6	0	0.00	4	0	0.00			

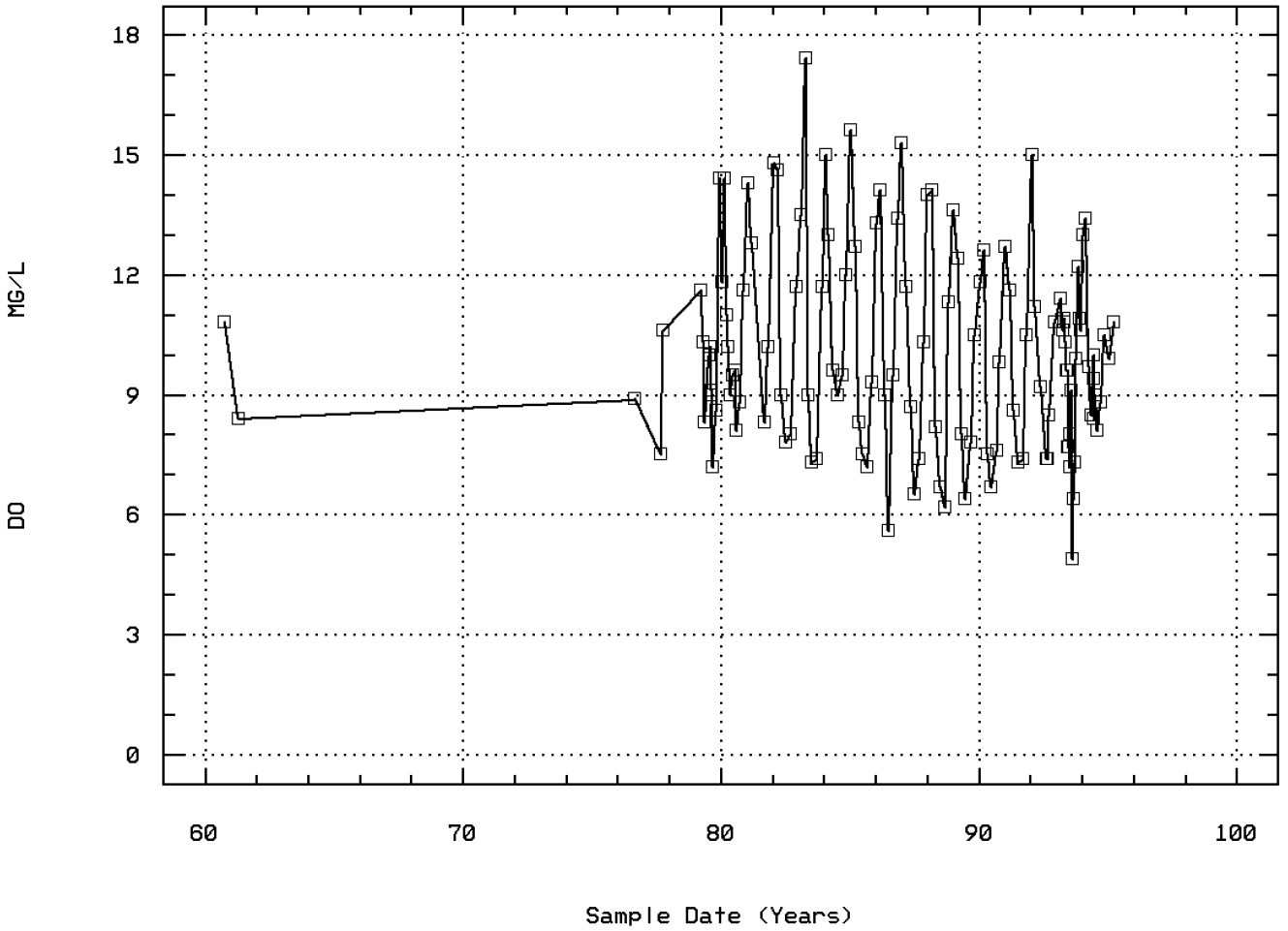
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



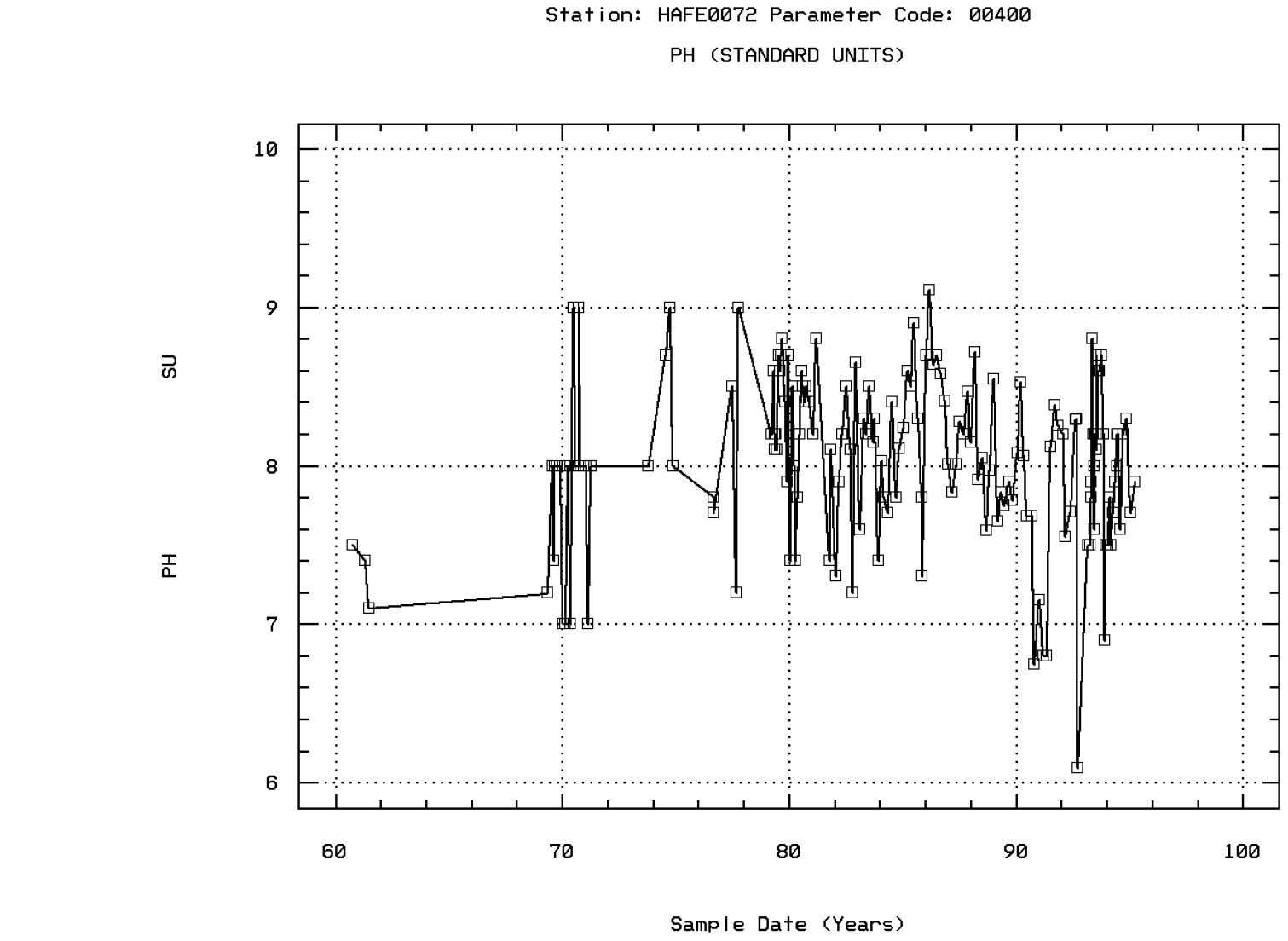
SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00300

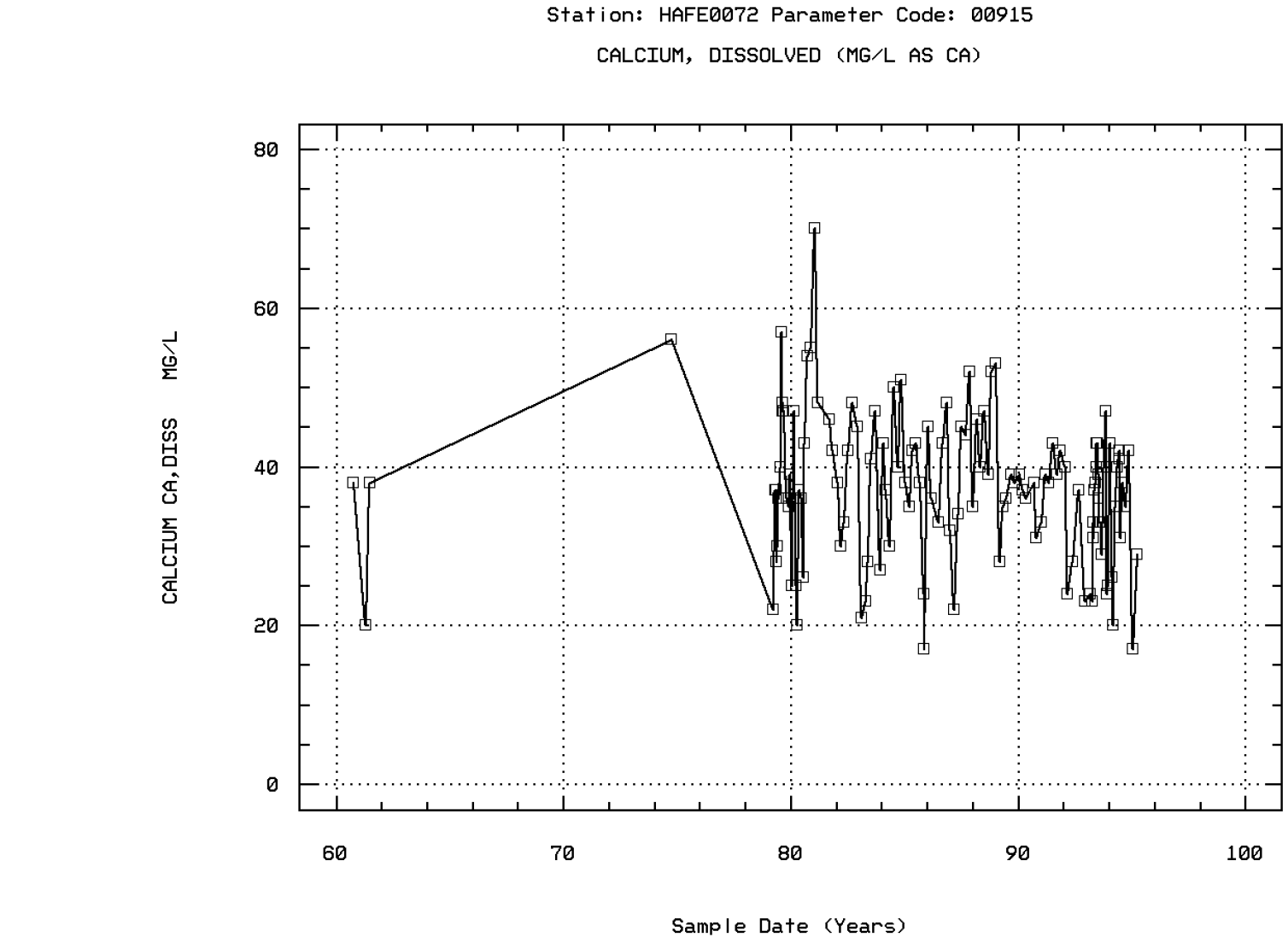
OXYGEN, DISSOLVED



SHENANDOAH R AT MILLVILLE, WV



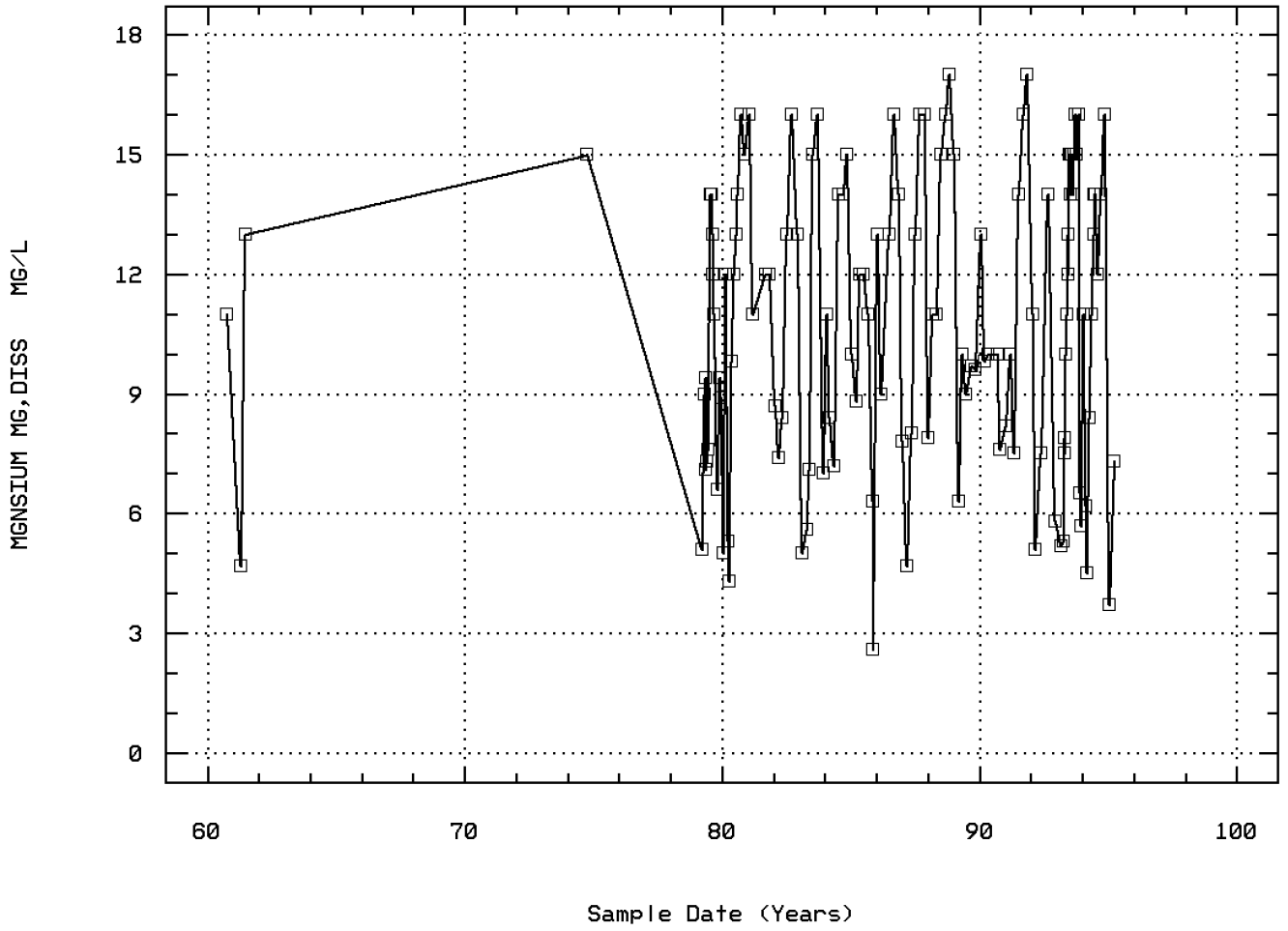
SHENANDOAH R AT MILLVILLE, WV



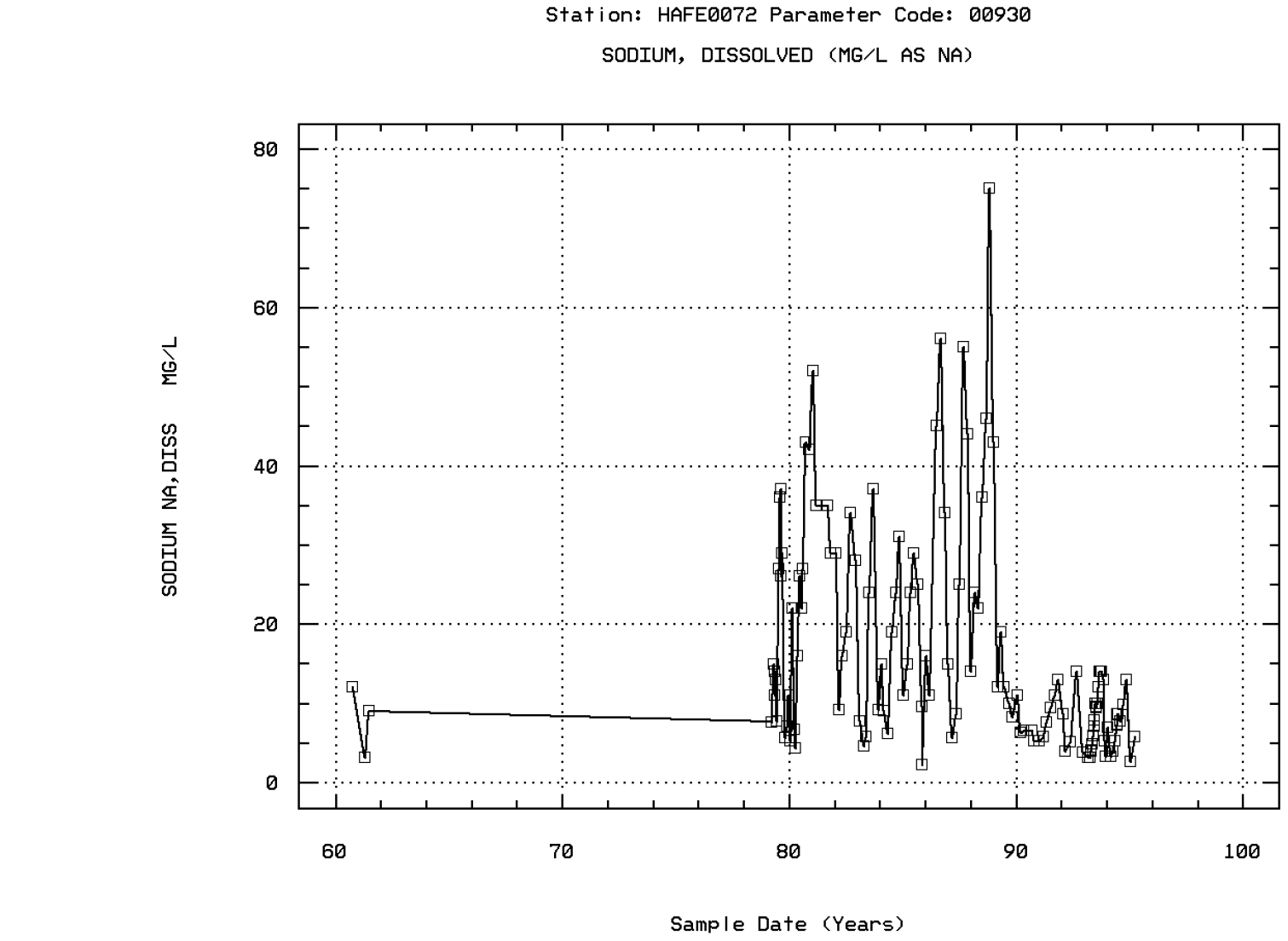
SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00925

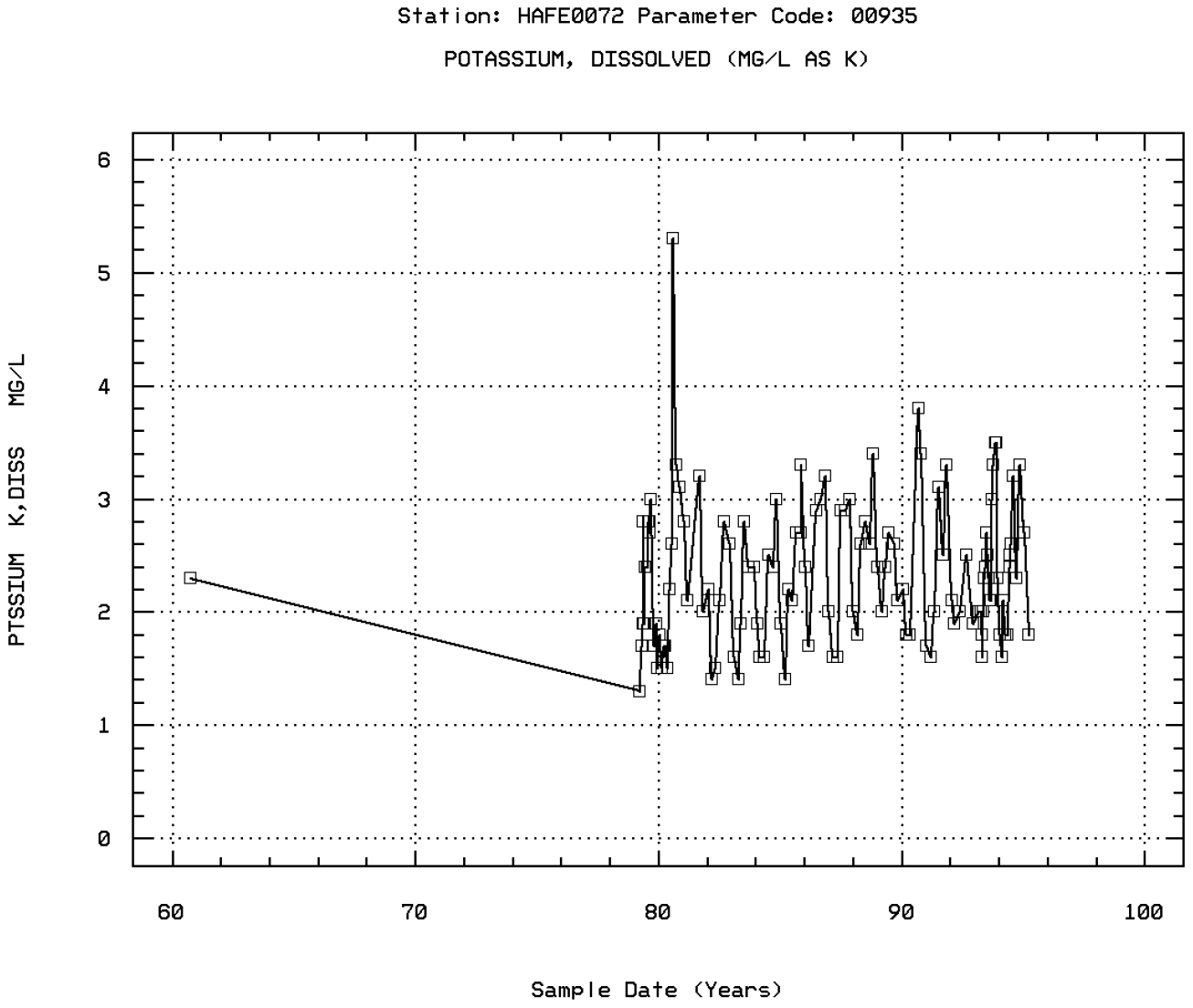
MAGNESIUM, DISSOLVED (MG/L AS MG)



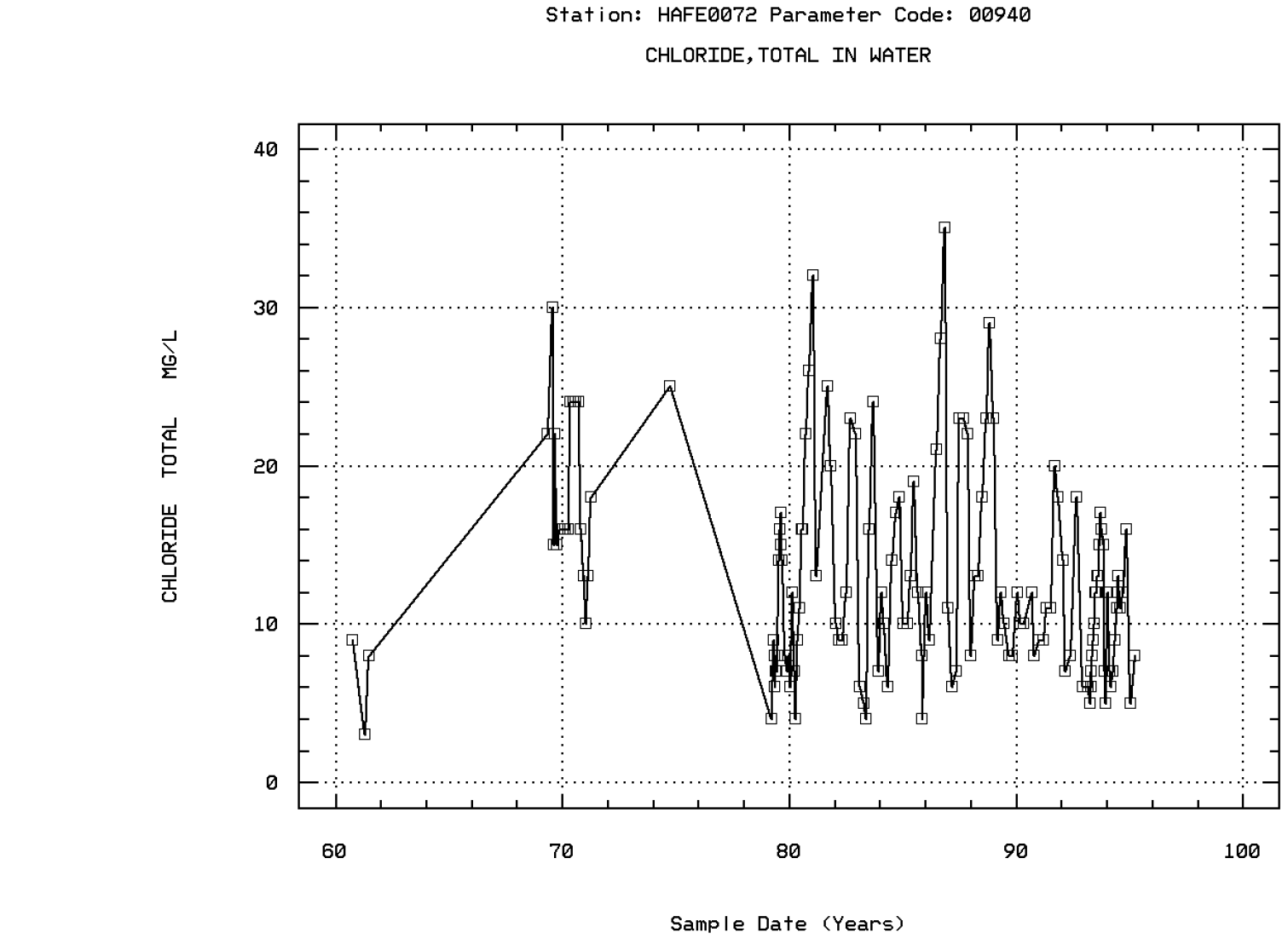
SHENANDOAH R AT MILLVILLE, WV



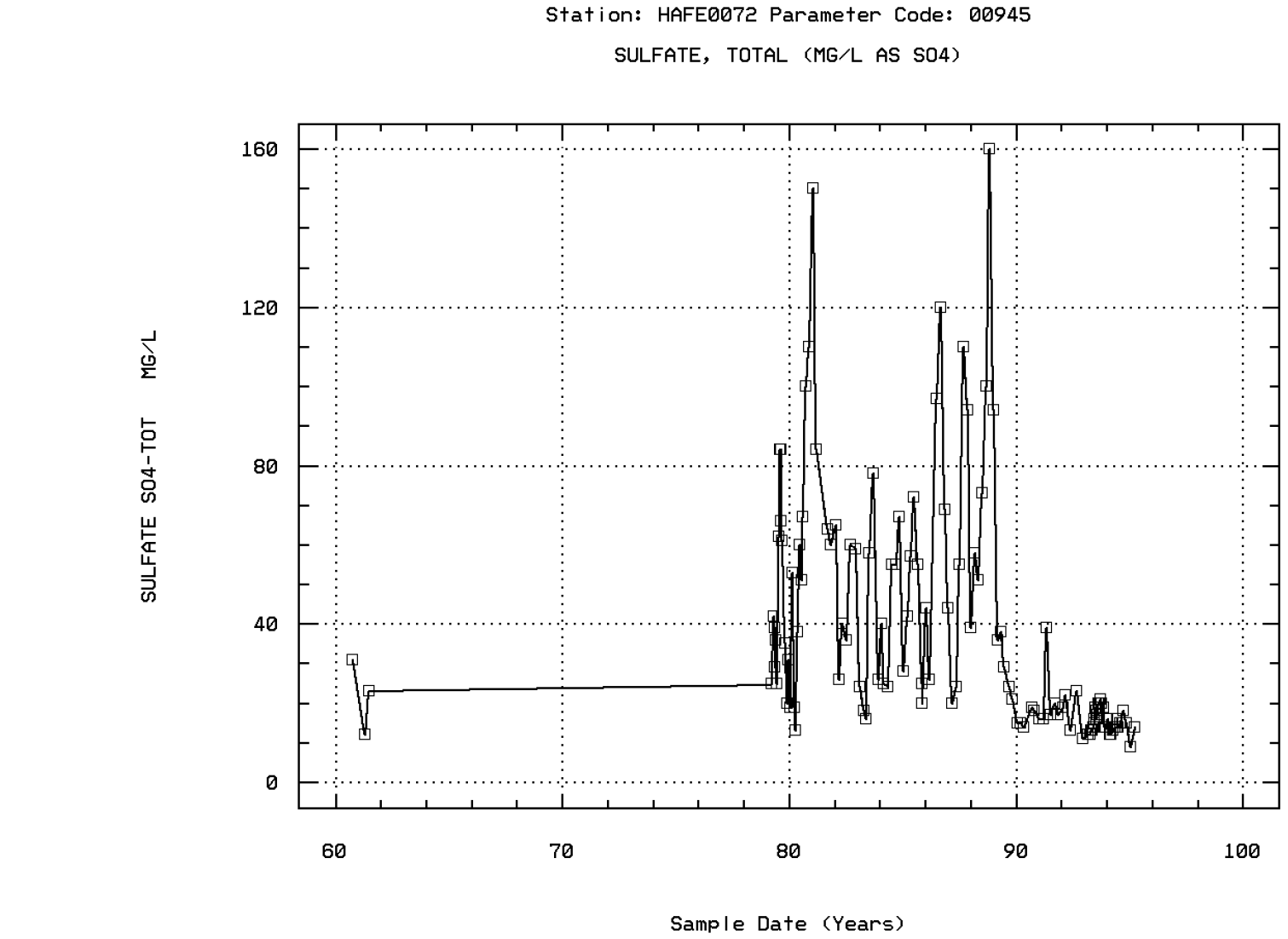
SHENANDOAH R AT MILLVILLE, WV



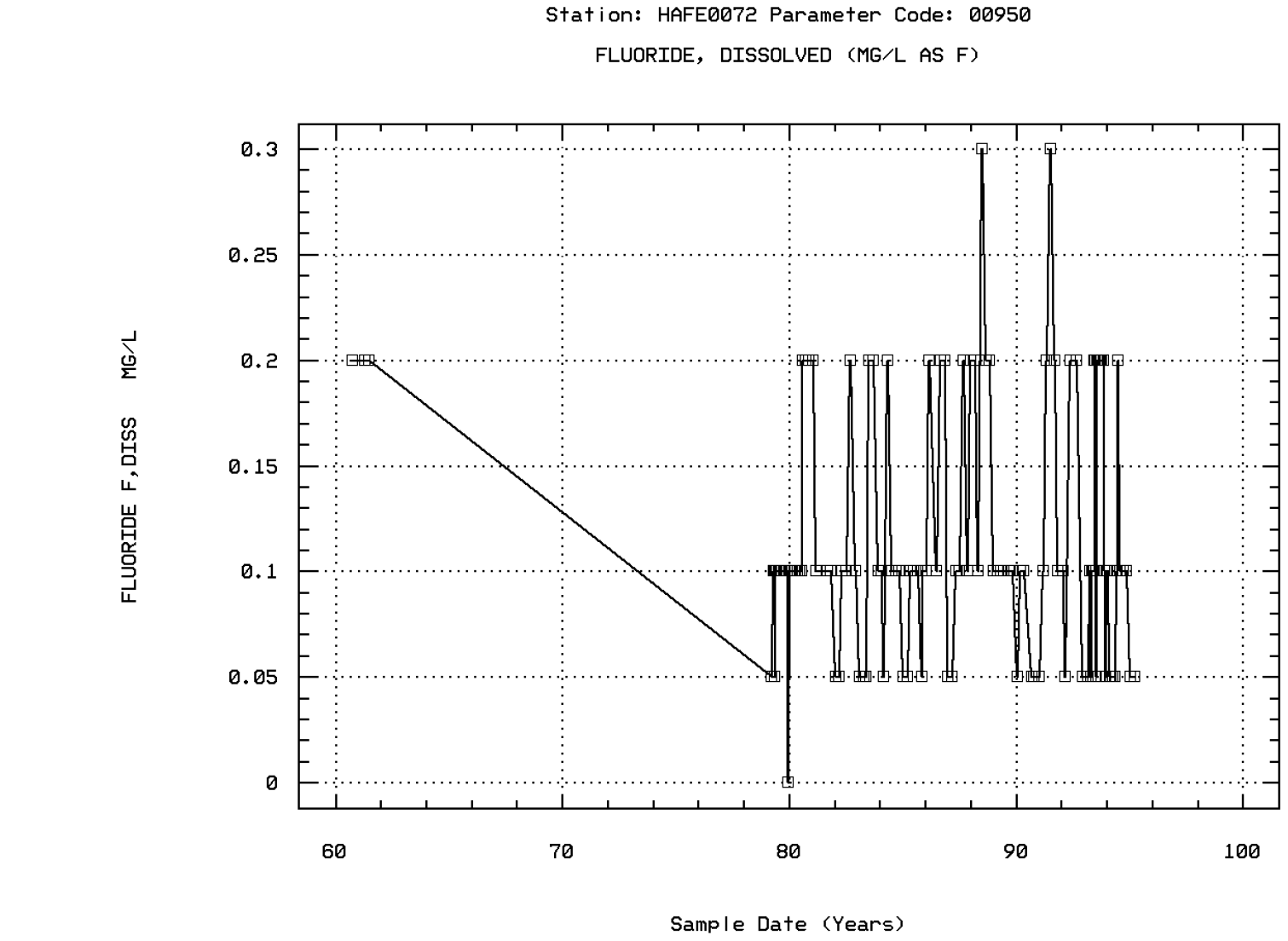
SHENANDOAH R AT MILLVILLE, WV



SHENANDOAH R AT MILLVILLE, WV



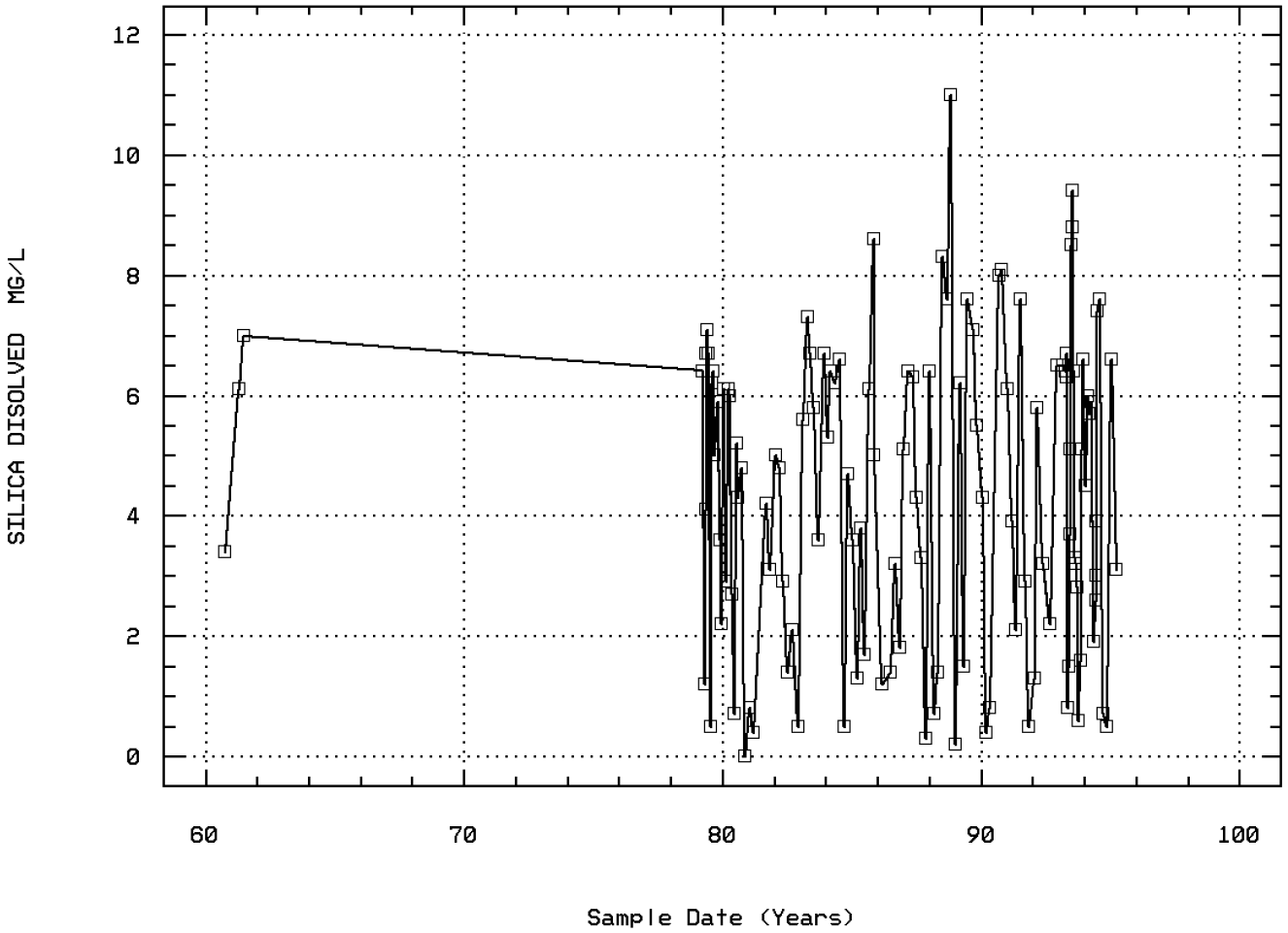
SHENANDOAH R AT MILLVILLE, WV



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00955

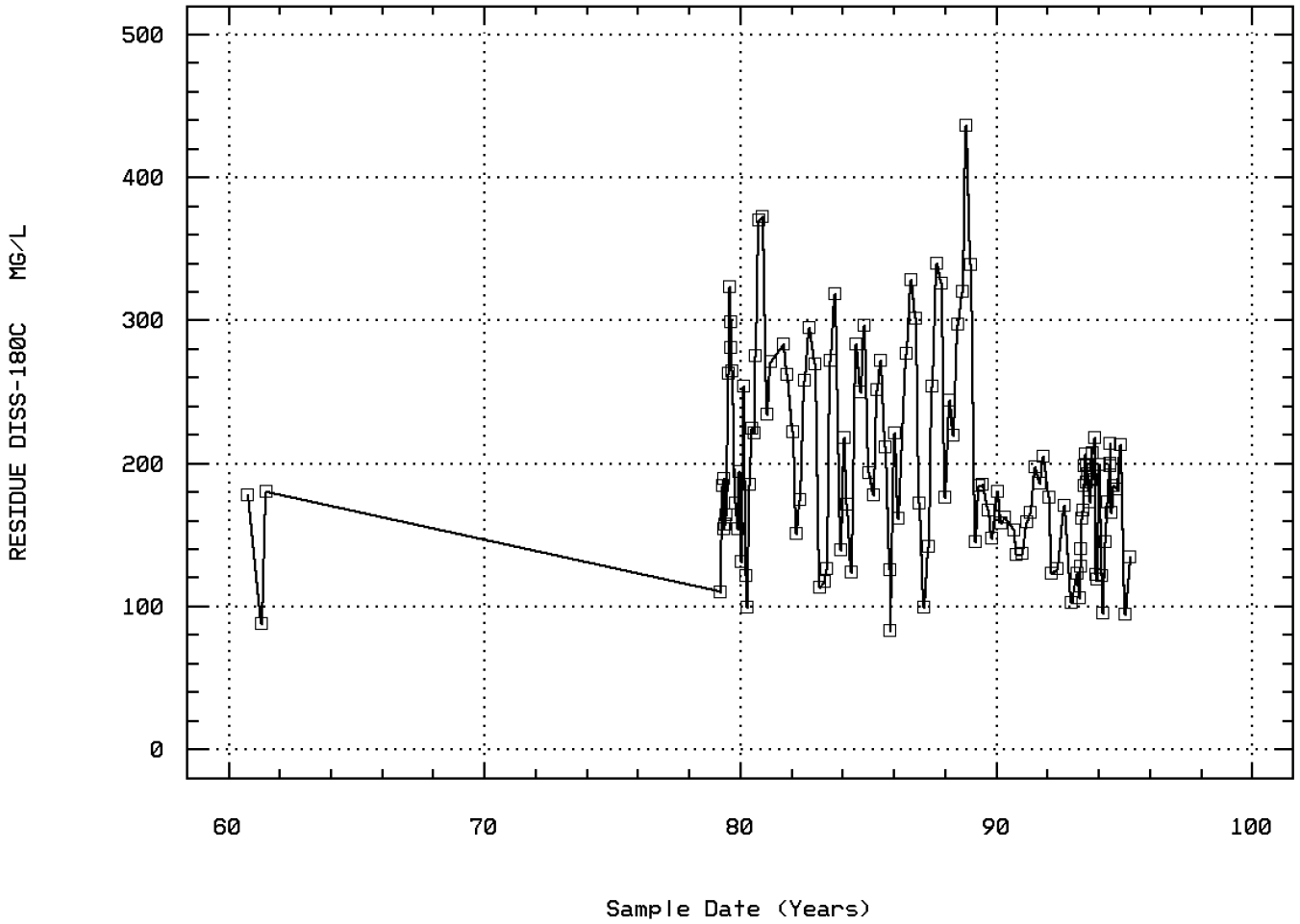
SILICA, DISSOLVED (MG/L AS SI02)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



SHENANDOAH R AT MILLVILLE, WV

Annual Analysis for 1945 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	14.5	14.5	14.5	14.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	21.5	21.5	21.5	21.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	1	1230.	1230.	1230.	1230.	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 1946 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	9	16.	12.833	25.5	0.5	75.	8.66	0.5	3.75	19.	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	8	16.75	13.438	23.5	0.	72.103	8.491	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	9	2180.	2663.111	5040.	755.	2598638.361	1612.029	755.	1006.5	4095.	5040.

** - Less 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 1947 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	11.75	13.167	27.	1.	126.067	11.228	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	7.5	11.917	26.	2.	116.242	10.782	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	1120.	1191.333	2070.	753.	232236.667	481.909	**	**	**	**

** - Less 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 1948 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	9.5	12.25	25.	5.	78.25	8.846	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	9.75	10.75	19.5	4.	43.417	6.589	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	4	2645.	4477.5	11100.	1520.	19835491.667	4453.705	**	**	**	**

** - Less 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 1949 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	5	11.5	14.3	28.	5.5	98.825	9.941	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	5	12.5	14.8	29.5	3.5	96.45	9.821	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	5	3150.	4088.	9370.	1940.	9481570.	3079.216	**	**	**	**

** - Less 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 HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	10.75	11.417	26.	1.	98.042	9.902	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	4.5	8.833	27.	-3.	131.267	11.457	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	2540.	2890.667	5750.	724.	3683450.667	1919.232	**	**	**	**

** - Less 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 HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	8.5	12.	21.5	2.	69.667	8.347	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	15.	12.857	26.5	-4.	117.56	10.842	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	7	1990.	1992.857	4870.	439.	2322344.143	1523.924	**	**	**	**

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

Annual Analysis for 1952 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	8.	11.75	25.5	5.5	88.083	9.385	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	8.	11.125	23.5	5.	71.563	8.459	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	4	2770.	3240.	5490.	1930.	2615866.667	1617.364	**	**	**	**

** - Less 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 1953 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	1	3260.	3260.	3260.	3260.	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 1955 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	9.	7.5	13.	0.5	40.75	6.384	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	11.	6.833	11.	-1.5	52.083	7.217	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	2310.	2149.667	3270.	869.	1460480.333	1208.503	**	**	**	**

** - Less 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 1956 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	19.	18.167	26.	9.5	68.583	8.282	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	15.5	16.833	25.	10.	57.583	7.588	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	1410.	1198.	1420.	764.	141292.	375.888	**	**	**	**

** - Less 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 1957 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	5	23.	17.7	26.5	4.	97.825	9.891	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	5	23.5	16.7	24.5	3.	103.825	10.189	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	5	1040.	907.	1270.	456.	123713.	351.729	**	**	**	**

** - Less 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 1959 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	15.5	15.5	15.5	15.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	1	888.	888.	888.	888.	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 1960 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	18.25	18.25	19.5	17.	3.125	1.768	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	1	641.	641.	641.	641.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	1	328.	328.	328.	328.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	1	10.8	10.8	10.8	10.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	1	178.	178.	178.	178.	0.	0.	**	**	**	**

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Annual Analysis for 1961 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	8.5	12.5	26.	3.	144.25	12.01	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	15.25	15.25	25.	5.5	190.125	13.789	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	2	654.5	654.5	699.	610.	3960.5	62.933	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	2	236.5	236.5	320.	153.	13944.5	118.087	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	2	7.25	7.25	7.4	7.1	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	2	7.225	7.225	7.4	7.1	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	2	0.06	0.06	0.079	0.04	0.001	0.028	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	2	29.	29.	38.	20.	162.	12.728	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	2	8.85	8.85	13.	4.7	34.445	5.869	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	2	6.05	6.05	9.	3.1	17.405	4.172	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	2	5.5	5.5	8.	3.	12.5	3.536	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	2	17.5	17.5	23.	12.	60.5	7.778	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	2	6.55	6.55	7.	6.1	0.405	0.636	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	2	134.	134.	180.	88.	4232.	65.054	**	**	**	**

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

Annual Analysis for 1962 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	14.75	13.5	21.	3.5	75.167	8.67	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	18.25	17.	29.	2.5	134.167	11.583	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	4	1044.	1218.	2220.	564.	534554.667	731.132	**	**	**	**

** - Less 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 1963 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	17.75	17.75	24.5	11.	91.125	9.546	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	21.75	21.75	29.	14.5	105.125	10.253	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	2	1182.5	1182.5	1920.	445.	1087812.5	1042.983	**	**	**	**

** - Less 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 1964 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	16.	14.167	23.5	3.	107.583	10.372	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	21.	16.333	29.5	-1.5	256.583	16.018	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	732.	1227.667	2590.	361.	1426374.333	1194.309	**	**	**	**

** - Less 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 1965 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	1	408.	408.	408.	408.	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 1966 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	21.5	21.5	21.5	21.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	1	220.	220.	220.	220.	0.	0.	**	**	**	**

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

Annual Analysis for 1968 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	22.25	22.25	28.	16.5	66.125	8.132	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	22.	22.	31.	13.	162.	12.728	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	2	599.5	599.5	778.	421.	63724.5	252.437	**	**	**	**

** - Less 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 HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	22.5	19.125	24.	7.5	60.729	7.793	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	1210.	1964.5	5870.	987.	3691161.5	1921.24	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	380.	363.333	450.	220.	6066.667	77.889	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.	7.767	8.	7.2	0.135	0.367	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.	7.623	8.	7.2	0.159	0.399	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.01	0.024	0.063	0.01	0.001	0.023	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	19.	20.	30.	15.	34.8	5.899	**	**	**	**

** - Less 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 HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	9	14.5	13.6	26.	2.	105.128	10.253	2.	2.45	24.	26.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	10	1375.	2077.4	5240.	554.	2719165.156	1648.989	565.3	679.	3510.	5151.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	10	370.	393.	610.	230.	13195.556	114.872	235.	310.	496.25	599.
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	10	8.	7.9	9.	7.	0.544	0.738	7.	7.	8.25	9.
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	10	8.	7.453	9.	7.	0.766	0.875	7.	7.	8.25	9.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	10	0.01	0.035	0.1	0.001	0.002	0.045	0.001	0.008	0.1	0.1
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	10	20.	19.7	24.	13.	21.344	4.62	13.3	16.	24.	24.

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Annual Analysis for 1971 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	7.	6.667	13.	0.	42.333	6.506	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	5350.	5913.333	8790.	3600.	6972033.333	2640.461	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	3	265.	268.333	280.	260.	108.333	10.408	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	3	8.	7.667	8.	7.	0.333	0.577	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	3	8.	7.398	8.	7.	0.442	0.665	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	3	0.01	0.04	0.1	0.01	0.003	0.052	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	3	13.	13.667	18.	10.	16.333	4.041	**	**	**	**

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Annual Analysis for 1972 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	6.5	6.5	12.	1.	60.5	7.778	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	5770.	6120.	10200.	2900.	11368440.	3371.712	**	**	**	**

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Annual Analysis for 1973 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	2.	5.833	13.5	2.	44.083	6.64	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	-0.5	-0.5	2.	-3.	12.5	3.536	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	4080.	3021.333	4190.	794.	3723785.333	1929.711	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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Annual Analysis for 1974 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	17.	16.667	25.	8.	72.333	8.505	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	20.75	20.75	26.	15.5	55.125	7.425	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	690.	719.	790.	677.	3823.	61.83	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	3	465.	511.667	610.	460.	7258.333	85.196	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	3	8.7	8.567	9.	8.	0.263	0.513	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	3	8.7	8.363	9.	8.	0.325	0.57	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	3	0.002	0.004	0.01	0.001	0.	0.005	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	1	25.	25.	25.	25.	0.	0.	**	**	**	**

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Annual Analysis for 1976 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	24.25	24.25	27.	21.5	15.125	3.889	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	514.	452.	515.	327.	11719.	108.254	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	1	630.	630.	630.	630.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	3	7.8	7.767	7.8	7.7	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	3	7.8	7.764	7.8	7.7	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	3	0.016	0.017	0.02	0.016	0.	0.002	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	1	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**

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Annual Analysis for 1977 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	26.	23.5	27.5	17.	32.25	5.679	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	3	26.	25.833	35.	16.5	85.583	9.251	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	3	487.	487.667	491.	485.	9.333	3.055	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	3	615.	585.	620.	520.	3175.	56.347	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	2	9.05	9.05	10.6	7.5	4.805	2.192	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	3	8.5	8.233	9.	7.2	0.863	0.929	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	3	8.5	7.649	9.	7.2	1.375	1.173	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	3	0.003	0.022	0.063	0.001	0.001	0.035	**	**	**	**

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Annual Analysis for 1979 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	14	20.3	18.829	27.	5.	45.611	6.754	6.5	14.75	24.	26.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	12	21.75	20.4	28.5	9.	39.729	6.303	9.9	14.3	24.5	28.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	14	3275.	4842.857	13500.	1260.	15343621.978	3917.094	1330.	1497.5	6897.5	12650.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	14	340.	358.214	520.	205.	7979.258	89.327	237.5	286.25	440.	485.
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	10	9.55	9.87	14.4	7.2	4.042	2.011	7.31	8.525	10.625	14.12
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	14	8.5	8.421	8.8	7.9	0.088	0.297	8.	8.175	8.7	8.75
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	14	8.489	8.327	8.8	7.9	0.098	0.312	8.	8.175	8.7	8.75
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	14	0.003	0.005	0.013	0.002	0.	0.003	0.002	0.002	0.007	0.01
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	12	0.405	0.437	0.83	0.23	0.031	0.176	0.242	0.293	0.575	0.767
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	14	0.945	0.841	1.7	0.22	0.179	0.423	0.24	0.338	1.05	1.45
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	14	0.155	0.138	0.22	0.04	0.004	0.066	0.04	0.075	0.2	0.215
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	14	0.07	0.069	0.14	0.01	0.001	0.037	0.015	0.038	0.093	0.125
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	14	37.	38.5	57.	22.	81.808	9.045	25.	33.75	47.	52.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	14	9.2	9.6	14.	5.1	7.978	2.825	5.85	7.25	12.25	14.
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	14	13.5	17.643	37.	5.6	121.849	11.039	6.35	7.675	27.5	36.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	14	2.15	2.2	3.	1.3	0.317	0.563	1.4	1.7	2.8	2.9
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	14	8.	10.	17.	4.	18.	4.243	5.	7.	14.25	16.5
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	14	37.5	45.643	84.	20.	471.17	21.706	22.5	28.	63.	84.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	14	0.1	0.086	0.1	0.	0.001	0.031	0.025	0.088	0.1	0.1
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	14	5.45	4.786	7.1	0.5	4.694	2.166	0.85	3.25	6.475	6.9
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	14	186.5	207.714	323.	110.	4261.297	65.279	132.	156.25	268.25	311.

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Annual Analysis for 1980 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	11	19.6	16.282	28.5	3.	96.134	9.805	3.4	6.5	26.	28.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	11	17.5	17.5	32.	4.	92.1	9.597	4.4	7.	26.	31.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	11	1580.	4158.909	13600.	6.	27223655.491	5217.629	125.6	744.	10600.	13320.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	11	374.	382.455	610.	151.	24062.473	155.121	159.8	206.	505.	603.6
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	10	9.9	10.4	14.4	8.1	3.451	1.858	8.17	8.95	11.65	14.14
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	11	8.4	8.155	8.6	7.4	0.197	0.444	7.4	7.8	8.5	8.58
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	11	8.4	7.922	8.6	7.4	0.256	0.506	7.4	7.8	8.5	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	11	0.004	0.012	0.04	0.003	0.	0.014	0.003	0.003	0.016	0.04
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	10	0.4	0.459	1.3	0.15	0.112	0.335	0.15	0.218	0.575	1.229
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	9	0.71	0.684	1.4	0.23	0.149	0.386	0.23	0.27	0.925	1.4
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	10	0.135	0.129	0.24	0.	0.004	0.065	0.006	0.098	0.165	0.234
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	10	0.08	0.073	0.15	0.01	0.003	0.051	0.01	0.018	0.113	0.147
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	10	36.5	36.8	55.	20.	160.844	12.682	20.5	25.	48.75	54.9
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	10	12.	10.64	16.	4.3	18.836	4.34	4.37	5.225	14.25	15.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	10	22.	21.43	43.	4.3	193.447	13.909	4.4	6.35	30.75	42.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	10	2.	2.47	5.3	1.5	1.411	1.188	1.5	1.65	3.15	5.1
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	10	11.5	12.9	26.	4.	50.544	7.109	4.2	6.75	17.5	25.6
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	10	52.	53.	110.	13.	1093.778	33.072	13.6	19.	75.25	109.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	10	0.1	0.13	0.2	0.1	0.002	0.048	0.1	0.1	0.2	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	10	4.55	3.88	6.1	0.	4.96	2.227	0.07	2.2	6.025	6.1
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	10	222.5	225.2	372.	99.	9235.511	96.102	101.2	128.5	298.75	371.8

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Annual Analysis for 1981 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	5	12.5	11.2	24.	0.5	81.575	9.032	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	4	14.25	15.125	26.	6.	89.729	9.473	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	5	631.	626.	912.	399.	41787.5	204.42	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	5	510.	506.4	714.	318.	19828.8	140.815	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	4	11.5	11.4	14.3	8.3	7.14	2.672	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	4	8.15	8.125	8.8	7.4	0.329	0.574	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	4	8.147	7.857	8.8	7.4	0.425	0.652	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	4	0.007	0.014	0.04	0.002	0.	0.017	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	3	0.44	0.413	0.58	0.22	0.033	0.181	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	4	0.71	0.745	1.2	0.36	0.12	0.346	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	4	0.17	0.173	0.25	0.1	0.004	0.062	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	4	0.135	0.145	0.23	0.08	0.004	0.064	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	4	47.	51.5	70.	42.	158.333	12.583	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	4	12.	12.75	16.	11.	4.917	2.217	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	4	35.	37.75	52.	29.	98.25	9.912	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	4	2.45	2.525	3.2	2.	0.329	0.574	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	4	22.5	22.5	32.	13.	64.333	8.021	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	4	74.	89.5	150.	60.	1737.	41.677	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	4	0.1	0.125	0.2	0.1	0.003	0.05	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	4	1.95	2.125	4.2	0.4	3.329	1.825	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	4	266.5	262.5	283.	234.	435.	20.857	**	**	**	**

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Annual Analysis for 1982 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	11.5	13.143	26.	0.	81.476	9.026	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	5.75	12.5	28.	-6.	149.	12.207	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	7	1380.	1820.571	4830.	564.	2150955.619	1466.614	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	7	405.	411.429	520.	260.	7705.952	87.784	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	10.35	10.983	14.8	7.8	10.226	3.198	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	7	8.1	7.979	8.65	7.2	0.31	0.557	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	7	8.1	7.682	8.65	7.2	0.412	0.642	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	7	0.008	0.021	0.063	0.002	0.001	0.025	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	5	0.65	0.692	1.1	0.5	0.06	0.244	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	5	0.1	0.116	0.2	0.09	0.002	0.047	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	5	0.08	0.086	0.13	0.06	0.001	0.027	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	40.	39.333	48.	30.	48.667	6.976	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	10.85	11.083	16.	7.4	11.594	3.405	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	23.5	22.533	34.	9.2	87.227	9.34	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.15	2.1	2.8	1.4	0.32	0.566	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	11.	14.167	23.	9.	42.967	6.555	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	49.5	47.667	65.	26.	249.067	15.782	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6	0.1	0.1	0.2	0.05	0.003	0.055	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	2.5	2.783	5.	0.5	3.318	1.821	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	240.	228.167	295.	151.	3190.167	56.482	**	**	**	**

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Annual Analysis for 1983 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	17.	15.	27.5	3.	80.083	8.949	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	12.5	12.917	24.	1.	103.442	10.171	**	**	**	**

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Annual Analysis for 1983 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	7	3640.	4180.	10300.	539.	15419262.333	3926.737	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	7	240.	338.143	560.	192.	25434.143	159.481	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	10.35	11.05	17.4	7.3	15.667	3.958	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	7	8.2	8.064	8.5	7.4	0.164	0.405	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	7	8.2	7.884	8.5	7.4	0.202	0.449	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	7	0.006	0.013	0.04	0.003	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	6	1.05	1.	1.5	0.5	0.136	0.369	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	6	0.13	0.183	0.5	0.07	0.025	0.159	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	6	0.065	0.075	0.12	0.04	0.001	0.033	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	27.5	31.167	47.	21.	108.967	10.439	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	7.05	9.283	16.	5.	23.938	4.893	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	8.5	14.733	37.	4.6	168.571	12.983	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.15	2.083	2.8	1.4	0.29	0.538	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	6.5	10.333	24.	4.	63.467	7.967	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	25.	36.667	78.	16.	642.667	25.351	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6 ##	0.075	0.108	0.2	0.05	0.005	0.074	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	6.25	5.95	7.3	3.6	1.723	1.313	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	132.5	180.833	318.	113.	8111.767	90.065	**	**	**	**

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Annual Analysis for 1984 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	12.	12.	22.	0.	76.4	8.741	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	12.	10.167	23.	-5.	103.367	10.167	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	1380.	3122.667	8680.	1030.	9664274.667	3108.742	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	409.	386.333	510.	245.	9206.667	95.951	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	10.8	11.35	15.	9.	5.695	2.386	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.915	7.973	8.4	7.7	0.068	0.26	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.9	7.916	8.4	7.7	0.072	0.268	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.013	0.012	0.02	0.004	0.	0.006	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	6	0.55	0.633	0.9	0.4	0.047	0.216	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	6	0.11	0.123	0.28	0.02	0.009	0.096	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	6	0.09	0.085	0.16	0.02	0.003	0.054	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	41.5	41.833	51.	30.	63.767	7.985	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	12.5	11.6	15.	7.2	10.608	3.257	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	17.	17.367	31.	6.2	86.567	9.304	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.15	2.167	3.	1.6	0.315	0.561	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	13.	12.833	18.	6.	20.167	4.491	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	47.5	44.333	67.	24.	309.467	17.592	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6	0.1	0.108	0.2	0.05	0.002	0.049	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	5.75	4.95	6.6	0.5	5.275	2.297	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	234.	223.667	296.	124.	4437.067	66.611	**	**	**	**

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Annual Analysis for 1985 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	13.	16.214	25.	6.	56.988	7.549	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	15.	16.714	26.	4.	53.905	7.342	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	7	2120.	23584.	140000.	1060.	2658522132.	51560.859	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	7	318.	313.	425.	144.	10813.	103.986	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	8.8	10.1	15.6	7.2	11.212	3.348	**	**	**	**

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Annual Analysis for 1985 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	7	8.3	8.234	8.9	7.3	0.286	0.534	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	7	8.3	7.923	8.9	7.3	0.399	0.632	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	7	0.005	0.012	0.05	0.001	0.	0.018	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	7	0.7	1.229	3.6	0.5	1.289	1.135	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	7	0.14	0.403	1.8	0.08	0.392	0.626	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	7	0.08	0.091	0.12	0.08	0.	0.017	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	7	38.	33.857	43.	17.	94.476	9.72	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	7	10.	8.957	12.	2.6	11.88	3.447	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	7	15.	16.557	29.	2.3	94.413	9.717	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	7	2.2	2.329	3.3	1.4	0.389	0.624	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	7	10.	10.857	19.	4.	21.476	4.634	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	7	42.	42.714	72.	20.	376.571	19.405	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	7	0.1	0.079	0.1	0.05	0.001	0.027	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	7	3.8	4.3	8.6	1.3	6.453	2.54	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	7	193.	187.571	272.	83.	4445.286	66.673	**	**	**	**

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Annual Analysis for 1986 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	13.	13.333	25.	3.	80.667	8.981	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	15.25	14.083	21.	5.	46.642	6.829	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	1111.	1328.167	2904.	515.	869565.767	932.505	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	440.	414.5	510.	290.	9225.5	96.049	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	11.4	10.817	14.1	5.6	11.174	3.343	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.67	8.69	9.11	8.41	0.054	0.232	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.669	8.645	9.11	8.41	0.056	0.237	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.002	0.002	0.004	0.001	0.	0.001	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	6	0.4	0.617	1.6	0.3	0.242	0.492	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	6	0.09	0.098	0.23	0.02	0.007	0.083	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	6	0.025	0.05	0.14	0.02	0.002	0.048	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	5	43.	41.	48.	33.	39.5	6.285	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	5	13.	13.	16.	9.	6.5	2.55	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	5	34.	32.4	56.	11.	361.3	19.008	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	5	2.9	2.64	3.2	1.7	0.363	0.602	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	5	21.	21.	35.	9.	117.5	10.84	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	5	69.	71.2	120.	26.	1458.7	38.193	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	5	0.2	0.16	0.2	0.1	0.003	0.055	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	5	1.4	1.72	3.2	1.	0.772	0.879	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	5	277.	257.6	328.	161.	4471.8	66.872	**	**	**	**

** - Less 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 HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	16.75	14.75	26.	1.	94.775	9.735	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	21.	16.25	26.	2.	120.975	10.999	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	1200.5	2586.5	8219.	271.	9814275.5	3132.774	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	353.5	361.833	575.	185.	21675.367	147.226	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	9.5	9.983	15.3	6.5	10.354	3.218	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.105	8.133	8.47	7.83	0.052	0.229	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.095	8.085	8.47	7.83	0.055	0.235	**	**	**	**

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Annual Analysis for 1987 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.008	0.008	0.015	0.003	0.	0.004	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	5	0.9	0.78	1.1	0.4	0.077	0.277	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	5	0.06	0.076	0.13	0.03	0.002	0.039	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	5	0.05	0.06	0.11	0.03	0.001	0.03	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	39.	38.167	52.	22.	117.767	10.852	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	10.5	10.917	16.	4.7	22.578	4.752	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	20.	25.567	55.	5.7	399.451	19.986	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.45	2.333	3.	1.6	0.455	0.674	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	16.5	15.333	23.	6.	67.467	8.214	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	49.5	57.833	110.	20.	1360.967	36.891	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6	0.1	0.1	0.2	0.05	0.003	0.055	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	4.7	4.283	6.4	0.3	5.21	2.282	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	213.	222.167	340.	99.	9958.567	99.793	**	**	**	**

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Annual Analysis for 1988 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	12.25	13.	25.5	0.	103.7	10.183	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	16.	12.833	27.	-8.	158.167	12.576	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	889.5	1164.167	2590.	457.	631641.367	794.759	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	395.5	397.667	497.	320.	3450.667	58.742	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	9.75	10.083	14.1	6.2	12.606	3.55	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.01	8.065	8.72	7.59	0.139	0.373	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	8.008	7.955	8.72	7.59	0.154	0.392	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.01	0.011	0.026	0.002	0.	0.008	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	6	0.4	0.417	0.7	0.2	0.03	0.172	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	6	0.05	0.062	0.15	0.02	0.003	0.05	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	6	0.055	0.048	0.08	0.02	0.001	0.024	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	43.	43.167	52.	35.	38.967	6.242	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	13.	12.983	17.	7.9	12.602	3.55	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	30.	36.167	75.	14.	488.967	22.113	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.6	2.533	3.4	1.8	0.331	0.575	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	15.5	17.333	29.	8.	58.667	7.659	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	65.5	80.167	160.	39.	1970.967	44.396	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6	0.2	0.2	0.3	0.1	0.004	0.063	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	7.	5.9	11.	0.7	16.44	4.055	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	270.5	282.	436.	176.	8406.8	91.689	**	**	**	**

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Annual Analysis for 1989 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	5	19.	16.9	25.5	6.	55.425	7.445	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	19.25	17.583	28.	8.	55.242	7.432	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	2460.	2147.5	3200.	645.	934577.5	966.735	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	316.	330.333	435.	260.	3469.867	58.906	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	9.25	9.783	13.6	6.4	8.098	2.846	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.805	7.91	8.55	7.65	0.105	0.324	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.804	7.839	8.55	7.65	0.111	0.334	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.016	0.014	0.022	0.003	0.	0.007	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	6	0.6	0.683	1.4	0.3	0.19	0.436	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	6	0.08	0.077	0.12	0.02	0.001	0.037	**	**	**	**

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Annual Analysis for 1989 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	6	0.055	0.055	0.09	0.01	0.001	0.033	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	37.	38.167	53.	28.	67.767	8.232	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	9.65	9.933	15.	6.3	7.983	2.825	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	12.	17.367	43.	8.2	171.127	13.082	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.4	2.367	2.7	2.	0.075	0.273	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	9.5	11.667	23.	8.	33.067	5.75	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	32.5	40.333	94.	21.	734.667	27.105	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	5.85	4.683	7.6	0.2	9.51	3.084	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	175.5	194.5	339.	145.	5308.7	72.861	**	**	**	**

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Annual Analysis for 1990 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	17.5	16.	25.	6.	72.4	8.509	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	19.	17.667	24.	5.	50.667	7.118	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	2225.	2219.	5000.	120.	2758774.	1660.956	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	274.	286.833	338.	255.	1156.567	34.008	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	8.7	9.333	12.6	6.7	6.055	2.461	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.87	7.797	8.53	6.75	0.362	0.602	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.83	7.399	8.53	6.75	0.552	0.743	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.015	0.04	0.178	0.003	0.005	0.068	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	5	0.6	0.54	0.8	0.3	0.038	0.195	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	5	0.12	0.12	0.17	0.08	0.001	0.032	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	5	0.08	0.074	0.13	0.01	0.002	0.049	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	5	37.	36.2	39.	31.	9.7	3.114	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	5	10.	10.08	13.	7.6	3.692	1.921	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	5	6.6	7.14	11.	5.2	4.988	2.233	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	5	2.2	2.6	3.8	1.8	0.88	0.938	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	5	10.	10.4	12.	8.	2.8	1.673	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	5	15.	16.2	19.	14.	4.7	2.168	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	5 ##	0.05	0.07	0.1	0.05	0.001	0.027	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	5	4.3	4.32	8.1	0.4	13.897	3.728	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	5	158.	157.8	180.	136.	252.2	15.881	**	**	**	**

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Annual Analysis for 1991 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	18.	16.583	28.	4.	93.442	9.667	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	19.5	21.417	29.	15.5	32.642	5.713	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	6	2100.	2353.	5300.	468.	2840374.	1685.341	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	6	315.	323.5	390.	269.	2278.3	47.732	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	6	9.55	9.683	12.7	7.3	5.102	2.259	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.635	7.583	8.38	6.8	0.556	0.746	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.407	7.171	8.38	6.8	0.761	0.872	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.039	0.068	0.158	0.004	0.006	0.075	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	6	0.45	0.483	0.7	0.3	0.022	0.147	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	6	0.045	0.072	0.18	0.03	0.003	0.057	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	6	0.035	0.058	0.14	0.02	0.002	0.047	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	6	39.	39.	43.	33.	12.4	3.521	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	6	12.	12.117	17.	7.5	16.722	4.089	**	**	**	**

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Annual Analysis for 1991 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	6	8.55	8.683	13.	5.2	9.258	3.043	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	6	2.25	2.367	3.3	1.6	0.519	0.72	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	6	11.	13.	20.	9.	22.8	4.775	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	6	17.	20.833	39.	16.	81.367	9.02	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	6	0.15	0.158	0.3	0.05	0.008	0.092	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	6	3.4	3.85	7.6	0.5	6.863	2.62	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	6	175.5	174.833	205.	137.	660.967	25.709	**	**	**	**

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Annual Analysis for 1992 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	7	20.	14.914	24.	2.	84.855	9.212	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	6	22.5	18.917	26.5	7.	68.442	8.273	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	5	2330.	2632.4	5100.	732.	3436768.8	1853.852	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	7	312.	293.571	426.	202.	6939.619	83.304	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	7	9.2	9.929	15.	7.4	7.242	2.691	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.955	7.69	8.3	6.09	0.714	0.845	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	6	7.889	6.835	8.3	6.09	1.591	1.261	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	6	0.013	0.146	0.813	0.005	0.107	0.327	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	4	0.3	0.3	0.5	0.1	0.033	0.183	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	4	0.09	0.098	0.13	0.08	0.	0.022	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	4	0.07	0.07	0.08	0.06	0.	0.008	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	5	28.	30.4	40.	23.	59.3	7.701	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	5	7.5	8.68	14.	5.1	14.047	3.748	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	5	5.1	7.1	14.	3.8	18.825	4.339	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	5	2.	2.08	2.5	1.9	0.062	0.249	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	5	8.	10.6	18.	6.	26.8	5.177	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	5	19.	17.6	23.	11.	28.8	5.367	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	5	0.1	0.12	0.2	0.05	0.006	0.076	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	5	3.2	3.8	6.5	1.3	5.115	2.262	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	5	126.	139.4	176.	102.	1030.8	32.106	**	**	**	**

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Annual Analysis for 1993 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	19	22.	19.158	29.	5.	70.196	8.378	7.	11.	27.5	29.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	19	27.	23.553	35.	9.	70.219	8.38	10.5	16.	30.	34.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	16	1895.	4843.813	22500.	705.	34779826.163	5897.442	723.9	1090.	8232.5	15290.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	19	331.	298.421	370.	177.	4421.035	66.491	185.	231.	350.	366.
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	19	9.6	9.216	12.2	4.9	3.778	1.944	6.4	7.7	10.8	11.4
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	18	8.15	8.056	8.8	6.9	0.272	0.522	7.44	7.575	8.6	8.71
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	18	8.147	7.739	8.8	6.9	0.378	0.615	7.44	7.575	8.6	8.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	18	0.007	0.018	0.126	0.002	0.001	0.029	0.002	0.003	0.027	0.041
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	15	0.3	0.233	0.5	0.1	0.014	0.118	0.1	0.1	0.3	0.38
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	19	0.4	0.347	0.6	0.1	0.019	0.139	0.1	0.3	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	19	0.07	0.077	0.24	0.01	0.002	0.049	0.03	0.05	0.09	0.12
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	19	0.04	0.04	0.07	0.005	0.	0.019	0.01	0.03	0.06	0.07
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	19	33.	34.263	47.	23.	49.76	7.054	24.	29.	40.	43.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	19	13.	11.532	16.	5.2	15.831	3.979	5.3	7.5	15.	16.
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	19	7.9	8.153	14.	3.2	15.76	3.97	3.2	4.1	12.	14.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	19	2.3	2.437	3.5	1.6	0.298	0.546	1.8	2.	2.7	3.5

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Annual Analysis for 1993 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	19	10.	10.421	17.	5.	14.813	3.849	5.	7.	13.	16.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	19	16.	16.105	21.	12.	9.322	3.053	12.	13.	19.	20.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	19	0.1	0.129	0.2	0.05	0.004	0.065	0.05	0.05	0.2	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	19	5.1	4.911	9.4	0.6	7.372	2.715	0.8	2.8	6.6	8.8
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	19	181.	168.368	218.	106.	1218.357	34.905	119.	128.	198.	207.

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Annual Analysis for 1994 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	12	20.	17.125	29.	0.5	101.051	10.052	0.95	7.125	25.75	28.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	12	18.25	18.333	30.5	1.	118.561	10.889	2.65	7.25	29.25	30.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	13	1590.	4271.615	29000.	638.	57934269.923	7611.456	768.	1325.	3835.	19976.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	13	319.	293.154	383.	93.	5925.808	76.979	131.	272.5	340.	369.8
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	11	9.4	9.891	13.4	8.1	3.199	1.789	8.16	8.5	10.5	13.32
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	13	7.9	7.9	8.3	7.5	0.09	0.3	7.5	7.6	8.2	8.26
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	13	7.9	7.808	8.3	7.5	0.099	0.315	7.5	7.6	8.2	8.26
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	13	0.013	0.016	0.032	0.005	0.	0.01	0.006	0.006	0.025	0.032
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	12	0.2	0.2	0.3	0.1	0.005	0.074	0.1	0.125	0.275	0.3
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	12	0.3	0.325	0.6	0.1	0.038	0.196	0.1	0.125	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	12	0.04	0.055	0.15	0.005	0.002	0.043	0.01	0.023	0.085	0.138
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	12	0.02	0.032	0.09	0.005	0.001	0.026	0.007	0.013	0.058	0.081
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	12	39.	36.25	43.	20.	53.114	7.288	21.8	32.	42.	42.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	12	12.5	11.508	16.	4.5	12.268	3.503	5.01	9.05	14.	15.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	12	7.25	7.175	13.	3.3	7.493	2.737	3.51	4.55	8.675	12.04
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	12	2.35	2.325	3.3	1.6	0.297	0.545	1.66	1.8	2.575	3.27
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	12	11.	10.583	16.	6.	8.265	2.875	6.3	7.5	12.	15.1
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	12	14.	14.417	18.	12.	2.992	1.73	12.	13.25	15.75	17.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	12	0.1	0.092	0.2	0.05	0.002	0.042	0.05	0.05	0.1	0.17
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	12	4.2	4.142	7.6	0.5	5.959	2.441	0.56	2.075	5.975	7.54
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	12	183.	174.083	214.	95.	1375.902	37.093	102.8	150.	199.75	213.7

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Annual Analysis for 1995 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	10.15	10.15	10.3	10.	0.045	0.212	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	2	9.5	9.5	12.	7.	12.5	3.536	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	2	15305.	15305.	27250.	3360.	285366050.	16892.781	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	2	175.	175.	210.	140.	2450.	49.497	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	2	10.35	10.35	10.8	9.9	0.405	0.636	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-03/16/95	2	7.8	7.8	7.9	7.7	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	2	7.789	7.789	7.9	7.7	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	2	0.016	0.016	0.02	0.013	0.	0.005	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	2 ##	0.25	0.25	0.4	0.1	0.045	0.212	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	2	0.8	0.8	1.3	0.3	0.5	0.707	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	2	0.235	0.235	0.43	0.04	0.076	0.276	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	2	0.05	0.05	0.08	0.02	0.002	0.042	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	2	23.	23.	29.	17.	72.	8.485	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	2	5.5	5.5	7.3	3.7	6.48	2.546	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	2	4.2	4.2	5.8	2.6	5.12	2.263	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	2	2.25	2.25	2.7	1.8	0.405	0.636	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**

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Annual Analysis for 1995 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	2	11.5	11.5	14.	9.	12.5	3.536	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	2	4.85	4.85	6.6	3.1	6.125	2.475	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	2	114.	114.	134.	94.	800.	28.284	**	**	**	**

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Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	65	21.7	21.106	28.	8.5	23.537	4.852	14.1	17.	25.	26.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	53	24.	23.198	35.	9.	32.619	5.711	14.4	19.75	27.	30.4
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-03/16/95	20	761.5	759.45	768.	748.	33.208	5.763	750.1	756.	764.5	766.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	67	724.	1088.328	5870.	6.	1143734.254	1069.455	391.4	501.	1320.	2466.
00065	STAGE, STREAM (FEET)	03/17/81-03/16/95	24	1.835	2.083	4.87	1.35	0.618	0.786	1.37	1.58	2.403	3.16
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	23	3.7	6.191	20.	0.3	42.139	6.491	0.64	1.4	6.4	19.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	48	423.	427.625	630.	220.	11400.112	106.771	311.3	334.75	510.	581.2
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	34	8.2	8.403	11.3	4.9	2.069	1.438	6.8	7.4	9.5	10.55
00400p	PH (STANDARD UNITS)	09/28/60-03/16/95	48	8.05	8.056	9.	6.09	0.337	0.58	7.38	7.72	8.475	8.71
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	48	8.047	7.482	9.	6.09	0.674	0.821	7.38	7.72	8.475	8.71
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	48	0.009	0.033	0.813	0.001	0.014	0.118	0.002	0.003	0.019	0.042
00403	PH, LAB, STANDARD UNITS SU	09/14/81-03/16/95	22	8.25	8.286	8.9	7.9	0.062	0.249	8.	8.1	8.425	8.67
00403	CONVERTED PH, LAB, STANDARD UNITS	09/14/81-03/16/95	22	8.247	8.226	8.9	7.9	0.066	0.257	8.	8.1	8.425	8.67
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/81-03/16/95	22	0.006	0.006	0.013	0.001	0.	0.003	0.002	0.004	0.008	0.01
00405p	CARBON DIOXIDE (MG/L AS CO2)	09/28/60-01/06/86	9	0.8	1.756	7.6	0.4	5.298	2.302	0.4	0.5	2.2	7.6
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-05/25/93	15	125.	109.6	160.	0.	2133.4	46.189	6.6	107.	139.	148.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-03/16/95	8	147.	150.125	199.	106.	798.696	28.261	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-01/06/86	8	0.685	0.649	1.2	0.15	0.112	0.335	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-03/16/95	24	0.04	0.039	0.09	0.	0.	0.021	0.008	0.02	0.05	0.06
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-08/31/92	18	0.045	0.06	0.15	0.005	0.002	0.047	0.01	0.02	0.095	0.15
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-03/16/95	16 ##	0.005	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	11	0.3	0.314	0.5	0.1	0.019	0.14	0.11	0.2	0.44	0.498
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	28	0.45	0.56	1.2	0.1	0.098	0.314	0.244	0.3	0.783	1.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-08/31/92	13	0.87	0.904	2.6	0.01	0.488	0.699	0.102	0.255	1.2	2.2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-03/16/95	25	0.9	0.884	1.6	0.2	0.178	0.422	0.3	0.55	1.2	1.54
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	28	0.11	0.102	0.2	0.01	0.003	0.058	0.02	0.05	0.15	0.182
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	27	0.07	0.07	0.13	0.02	0.002	0.04	0.02	0.03	0.11	0.122
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-03/16/95	20	0.065	0.06	0.13	0.005	0.002	0.039	0.02	0.023	0.087	0.12
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-03/16/95	7	3.2	3.129	3.8	2.1	0.289	0.538	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-03/16/95	7	0.3	0.686	1.7	0.2	0.365	0.604	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/06/86	18	170.	165.	205.	103.	947.412	30.78	103.	155.	188.5	200.5
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/06/86	9	33.	31.889	41.	15.	53.611	7.322	15.	30.	36.5	41.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	30	39.5	41.267	56.	29.	43.789	6.617	33.	37.75	47.	51.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	30	14.	13.417	17.	6.6	8.012	2.831	9.61	11.	16.	16.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	29	14.	24.348	75.	5.2	318.258	17.84	6.6	10.5	36.	55.
00931p	SODIUM ADSORPTION RATIO	09/28/60-01/06/86	10	1.	0.87	1.2	0.2	0.087	0.295	0.23	0.8	1.	1.18
00932p	SODIUM, PERCENT	09/28/60-01/06/86	10	27.5	25.4	32.	9.	57.156	7.56	9.6	22.5	31.	31.9
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	29	2.8	2.852	5.3	1.7	0.46	0.678	2.1	2.4	3.25	3.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	37	17.	17.459	29.	8.	35.922	5.993	8.	12.5	23.	25.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	29	35.	51.793	160.	15.	1466.241	38.292	18.	20.	72.5	110.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	29	0.2	0.148	0.2	0.05	0.003	0.056	0.1	0.1	0.2	0.2
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	29	4.2	4.445	11.	0.5	6.773	2.602	0.6	2.85	6.25	8.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	15	1.	1.233	3.	0.5	0.602	0.776	0.5	0.5	2.	2.4
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	18	35.	35.556	51.	0.	120.379	10.972	25.2	32.5	41.	50.1
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	12 ##	0.25	0.292	1.	0.	0.055	0.234	0.075	0.25	0.25	0.775
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	15 ##	0.5	0.933	3.	0.	0.888	0.942	0.3	0.5	1.	3.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	15 ##	0.5	2.567	10.	0.5	11.245	3.353	0.5	0.5	4.	10.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	18 ##	1.5	1.278	1.5	0.	0.271	0.521	0.	1.5	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	15	1.	2.1	6.	0.5	2.936	1.713	0.8	1.	3.	5.4
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-03/16/95	32	9.	26.172	330.	0.	4347.127	65.933	0.1	0.6	14.5	51.7
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	15 ##	0.5	1.733	10.	0.	6.174	2.485	0.	0.5	2.5	5.5
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-03/16/95	23	8.	12.043	80.	2.	257.225	16.038	2.4	5.	12.	24.2
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	15 ##	5.	7.	20.	5.	27.857	5.278	5.	5.	5.	20.
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	17	1.	1.235	3.	0.5	0.597	0.773	0.5	0.5	2.	2.2
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	18 ##	0.5	0.472	1.	0.	0.043	0.208	0.	0.5	0.5	0.55
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	15	150.	149.4	190.	91.	869.686	29.49	96.4	130.	170.	190.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	15 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	15	4.	8.567	30.	0.	86.674	9.31	0.9	1.5	15.	25.8
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	15 ##	5.	9.667	30.	5.	58.81	7.669	5.	5.	10.	24.

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

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	15	8.	7.533	13.	2.	7.838	2.8	3.2	6.	10.	11.8
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	18 ##	0.5	0.611	3.	0.	0.369	0.608	0.45	0.5	0.5	0.75
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	23	75.	405.739	6000.	14.	1519058.474	1232.501	14.4	31.	230.	552.2
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	23	1.875	1.956	3.778	1.146	0.439	0.663	1.158	1.491	2.362	2.742
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			90.452								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	23	370.	552.652	2800.	1.	452310.146	672.54	65.4	100.	600.	1685.8
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	23	2.568	2.421	3.447	0.	0.489	0.7	1.816	2.	2.778	3.2
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			263.728								
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-03/16/95	11	118.	114.	163.	0.	1895.2	43.534	17.2	108.	144.	160.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	29	207.	237.897	436.	136.	5940.31	77.073	153.	175.5	297.	340.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/06/86	10	269.5	258.5	340.	150.	3139.389	56.03	153.	232.5	292.5	336.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-01/06/86	10	656.5	883.9	1800.	358.	304351.433	551.681	361.2	434.25	1367.5	1795.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-01/06/86	10	0.38	0.37	0.5	0.23	0.007	0.082	0.231	0.33	0.415	0.493
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	23	95.	92.	100.	72.	76.364	8.739	74.8	90.	99.	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/06/86	6	0.06	0.053	0.08	0.	0.001	0.03	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/06/86	9	0.46	0.432	0.61	0.12	0.02	0.141	0.12	0.37	0.52	0.61
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	13 ##	0.05	0.119	0.3	0.05	0.008	0.088	0.05	0.05	0.2	0.26
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-08/01/94	26	13.5	16.731	62.	2.	182.845	13.522	3.7	7.25	21.25	35.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-01/06/86	8	59.	63.125	129.	14.	2212.411	47.036	**	**	**	**

** - Less 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: 11/01 to 3/20 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	87	5.5	5.669	14.5	0.	13.036	3.61	0.9	3.	8.	11.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	83	9.	7.56	22.	-8.	42.74	6.538	2.	5.	12.	15.8
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-03/16/95	37	757.	757.838	774.	746.	52.084	7.217	748.8	752.5	762.	769.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	89	2700.	5721.921	140000.	408.	230982556.891	15198.11	720.	1275.	4840.	10600.
00065	STAGE, STREAM (FEET)	03/17/81-03/16/95	35	3.51	4.655	25.5	1.63	18.974	4.356	1.71	2.6	4.77	9.618
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	39	2.	49.631	1600.	0.2	65213.473	255.369	0.6	1.3	9.2	30.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	55	302.	317.691	714.	93.	15704.292	125.317	186.8	210.	390.	484.
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	45	12.6	12.556	15.6	9.3	2.627	1.621	10.42	11.3	14.05	14.88
00400p	PH (STANDARD UNITS)	09/28/60-03/16/95	54	8.	7.934	9.11	6.8	0.291	0.54	7.075	7.5	8.325	8.675
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	54	8.	7.612	9.11	6.8	0.397	0.63	7.075	7.5	8.325	8.675
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	54	0.01	0.024	0.158	0.001	0.001	0.034	0.002	0.005	0.032	0.085
00403	PH, LAB, STANDARD UNITS SU	09/14/81-03/16/95	40	8.	8.017	8.7	7.3	0.143	0.378	7.51	7.7	8.275	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	09/14/81-03/16/95	40	8.	7.87	8.7	7.3	0.165	0.406	7.51	7.7	8.275	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/81-03/16/95	40	0.01	0.013	0.05	0.002	0.	0.011	0.003	0.005	0.02	0.031
00405p	CARBON DIOXIDE (MG/L AS CO2)	09/28/60-01/06/86	11	2.	1.909	5.1	0.4	2.205	1.485	0.4	0.6	2.9	4.8
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-05/25/93	24	94.	82.75	159.	0.	2947.674	54.292	0.	42.	124.25	154.5
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-03/16/95	14	93.5	109.214	181.	56.	1599.104	39.989	61.5	78.5	140.75	176.5
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-01/06/86	10	0.645	0.936	3.2	0.2	0.825	0.908	0.207	0.33	1.225	3.04
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-03/16/95	46	0.04	0.049	0.21	0.	0.002	0.046	0.005	0.02	0.073	0.11
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-08/31/92	25	0.02	0.062	0.45	0.005	0.008	0.092	0.008	0.015	0.08	0.146
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-03/16/95	28 ##	0.008	0.009	0.02	0.005	0.	0.006	0.005	0.005	0.01	0.02
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	17	0.3	0.411	1.3	0.1	0.102	0.319	0.1	0.2	0.585	0.924
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	45	0.5	0.67	3.6	0.1	0.348	0.59	0.2	0.3	0.9	1.24
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-08/31/92	11	1.4	1.463	2.2	0.79	0.14	0.374	0.872	1.2	1.7	2.12
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-03/16/95	46	1.3	1.304	2.3	0.7	0.141	0.376	0.9	1.	1.525	1.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	46	0.1	0.16	1.8	0.02	0.072	0.269	0.027	0.04	0.15	0.319
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	46	0.06	0.069	0.23	0.005	0.002	0.047	0.017	0.03	0.09	0.143
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-03/16/95	38	0.04	0.053	0.21	0.005	0.002	0.042	0.01	0.028	0.07	0.102
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-03/16/95	13	2.8	3.385	6.5	2.1	2.073	1.44	2.1	2.25	4.8	5.98
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-03/16/95	13	0.5	1.623	8.7	0.1	5.942	2.438	0.14	0.25	2.35	6.86
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/06/86	22	130.	135.318	240.	53.	2051.942	45.298	76.	104.	170.	196.4
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/06/86	11	23.	21.909	40.	6.	72.491	8.514	8.	16.	25.	37.4

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

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	48	36.5	35.854	70.	17.	131.191	11.454	21.9	25.	44.5	51.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	48	8.85	9.323	16.	2.6	14.021	3.744	4.97	6.225	12.	15.1
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	48	10.3	14.798	52.	2.3	162.549	12.749	3.3	5.725	20.5	35.7
00931p	SODIUM ADSORPTION RATIO	09/28/60-01/06/86	16	0.55	0.706	1.5	0.1	0.19	0.436	0.24	0.325	1.15	1.36
00932p	SODIUM, PERCENT	09/28/60-01/06/86	16	18.5	20.813	32.	8.	68.029	8.248	10.1	14.25	30.5	32.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	48	2.	2.173	3.5	1.4	0.347	0.589	1.59	1.725	2.55	3.21
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	54	10.	11.907	35.	4.	43.18	6.571	6.	7.	14.25	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	48	25.	36.833	150.	9.	901.716	30.029	12.	16.	50.75	85.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	48	0.1	0.093	0.2	0.	0.003	0.052	0.05	0.05	0.1	0.2
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	48	4.6	3.885	8.6	0.	5.82	2.413	0.4	1.3	6.1	6.51
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	21	0.5	0.952	4.	0.	0.723	0.85	0.5	0.5	1.	2.
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	25	31.	32.	50.	18.	61.5	7.842	22.2	25.5	37.5	42.4
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	15 ##	0.25	0.25	0.5	0.	0.009	0.094	0.15	0.25	0.25	0.35
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	21 ##	0.5	0.524	1.	0.	0.087	0.295	0.	0.5	0.5	1.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	20 ##	0.5	3.225	20.	0.5	25.118	5.012	0.5	0.5	5.	10.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	25 ##	1.5	1.54	4.	0.5	0.457	0.676	0.8	1.5	1.5	2.1
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	21	2.	2.214	8.	0.	3.739	1.934	0.5	1.	3.	5.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-03/16/95	41	20.	32.21	350.	0.	3183.848	56.426	0.1	9.5	33.	66.4
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	21	1.	1.762	5.	0.	2.015	1.42	0.	1.	2.5	4.6
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-03/16/95	34	4.5	5.324	16.	2.	9.741	3.121	2.5	3.	6.	9.5
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	19 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	25	1.	1.56	6.	0.	2.736	1.654	0.3	0.5	2.	5.
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	25 ##	0.5	0.44	1.	0.	0.048	0.22	0.	0.5	0.5	0.5
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	19	110.	114.263	180.	41.	1661.205	40.758	67.	78.	140.	180.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	19 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	21	10.	20.381	150.	1.5	1048.523	32.381	1.6	8.	18.	52.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	19	10.	19.421	110.	5.	666.368	25.814	5.	5.	20.	50.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	19	5.	5.895	16.	2.	13.655	3.695	2.	2.	7.	11.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	25 ##	0.5	0.42	0.5	0.	0.035	0.187	0.	0.5	0.5	0.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	33	19.	365.227	3000.	0.5	678657.314	823.807	0.7	2.5	112.5	1960.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	33	1.279	1.326	3.477	-0.301	1.327	1.152	-0.181	0.389	2.048	3.292
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			21.199								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	34	68.	1395.676	20000.	0.5	19431024.332	4408.064	3.5	11.	412.5	2670.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	34	1.832	1.835	4.301	-0.301	1.284	1.133	0.54	1.041	2.614	3.414
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			68.323								
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-03/16/95	16	89.5	99.813	166.	46.	1664.963	40.804	52.3	64.5	129.5	164.6
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	48	171.5	183.5	372.	83.	4926.	70.185	101.7	123.5	221.75	296.5
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/06/86	16	192.	199.438	400.	77.	8517.063	92.288	96.6	114.75	257.5	365.7
70302p	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-01/06/86	15	1240.	3947.6	31400.	446.	60713355.257	7791.878	451.4	659.	4320.	15926.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-01/06/86	16	0.28	0.284	0.54	0.11	0.016	0.127	0.138	0.173	0.368	0.519
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	38	84.5	80.684	100.	29.	281.844	16.788	55.	71.	95.25	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/06/86	15	0.06	0.087	0.27	0.	0.007	0.082	0.	0.03	0.14	0.234
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/06/86	18	0.385	0.765	5.5	0.06	1.538	1.24	0.114	0.303	0.605	1.9
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	21 ##	0.05	0.098	0.6	0.05	0.015	0.124	0.05	0.05	0.1	0.2
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-08/01/94	42	9.	78.214	1854.	1.	82288.563	286.86	2.	4.75	43.25	129.3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-01/06/86	14	78.5	1698.664	12400.	3.9	11845400.341	3441.715	4.25	13.7	2565.	8475.

** - Less 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: 3/21 to 7/31 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/45-03/16/95	81	21.	20.206	29.	7.	36.152	6.013	10.2	17.	25.5	27.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/31/45-03/16/95	72	21.75	21.393	35.	3.5	51.302	7.163	11.3	17.	27.	30.
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-03/16/95	35	758.	759.657	779.	751.	45.526	6.747	751.6	755.	765.	769.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/31/45-03/16/95	81	1920.	3177.346	22500.	368.	12188688.379	3491.23	766.8	1240.	3910.	7886.
00065	STAGE, STREAM (FEET)	03/17/81-03/16/95	37	2.88	3.591	10.06	1.61	3.422	1.85	2.036	2.265	4.485	6.366

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Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0072

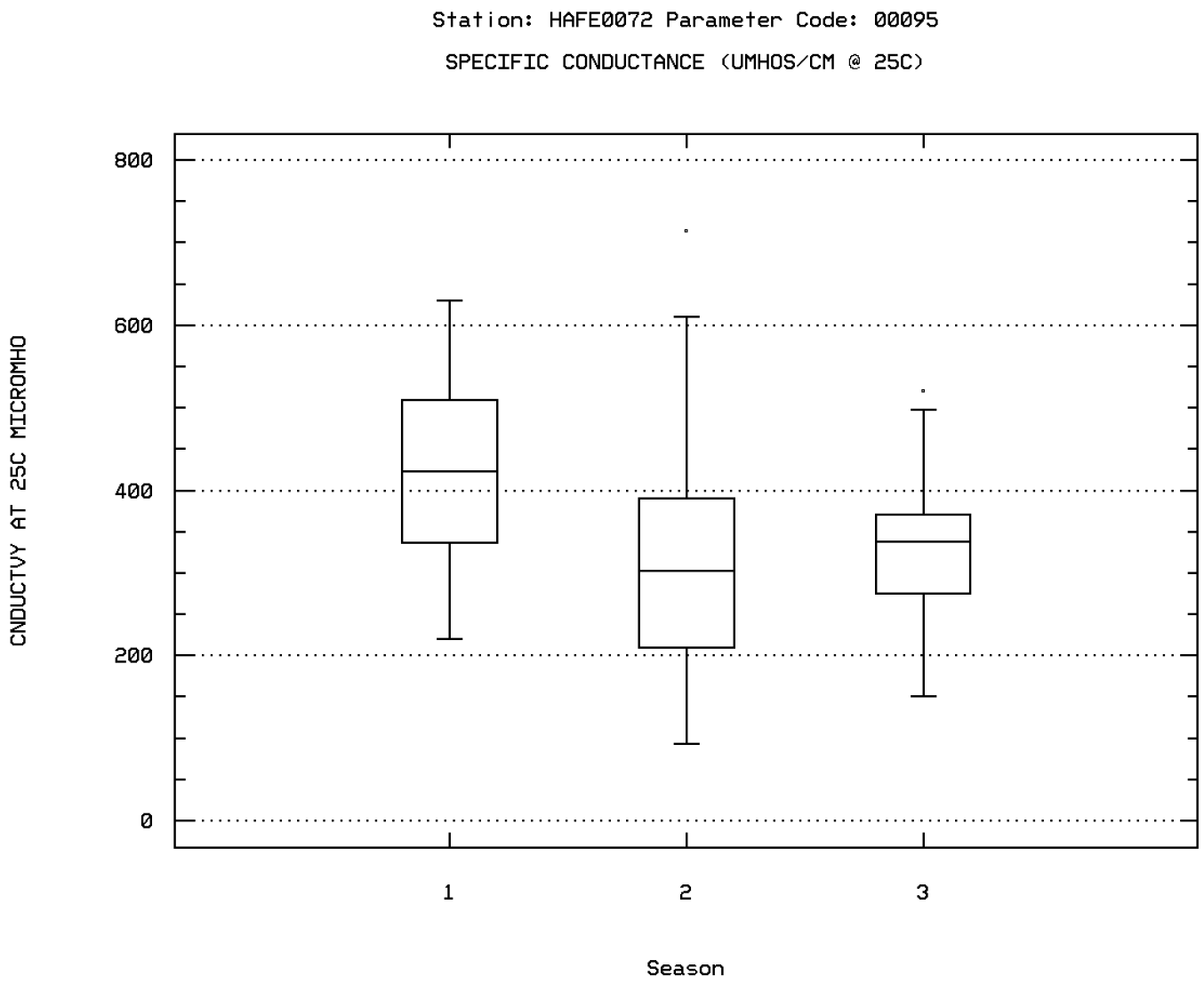
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	34	3.	7.	40.	0.3	83.619	9.144	0.9	1.9	8.5	22.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-03/16/95	61	338.	332.475	520.	151.	7125.42	84.412	230.2	273.5	372.	439.
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-03/16/95	49	9.	8.916	17.4	5.6	3.237	1.799	6.7	7.75	9.65	10.6
00400p	PH (STANDARD UNITS)	09/28/60-03/16/95	61	8.12	8.091	9.	6.8	0.214	0.463	7.42	7.815	8.45	8.7
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-03/16/95	61	8.12	7.806	9.	6.8	0.296	0.544	7.42	7.815	8.45	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-03/16/95	61	0.008	0.016	0.158	0.001	0.001	0.026	0.002	0.004	0.015	0.038
00403	PH, LAB, STANDARD UNITS SU	09/14/81-03/16/95	36	8.2	8.133	8.7	7.5	0.074	0.272	7.8	7.9	8.3	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	09/14/81-03/16/95	36	8.2	8.05	8.7	7.5	0.081	0.284	7.8	7.9	8.3	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/81-03/16/95	36	0.006	0.009	0.032	0.002	0.	0.006	0.003	0.005	0.013	0.016
00405p	CARBON DIOXIDE (MG/L AS CO2)	09/28/60-01/06/86	18	1.05	2.472	20.	0.5	20.722	4.552	0.5	0.675	1.825	5.96
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-05/25/93	28	103.5	90.25	152.	0.	2009.157	44.824	0.	62.25	113.75	140.1
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-03/16/95	22	155.	145.091	177.	67.	802.658	28.331	104.3	130.75	167.25	173.1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/31/76-01/06/86	12	0.715	0.759	1.7	0.19	0.188	0.433	0.208	0.398	0.948	1.58
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-03/16/95	42	0.035	0.036	0.08	0.	0.	0.019	0.005	0.02	0.05	0.06
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/31/76-08/31/92	24	0.04	0.06	0.23	0.01	0.002	0.048	0.025	0.03	0.07	0.125
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-03/16/95	29	0.01	0.014	0.02	0.005	0.	0.006	0.005	0.01	0.02	0.02
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-03/16/95	27	0.3	0.286	0.62	0.1	0.021	0.144	0.1	0.2	0.38	0.52
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/31/76-03/16/95	50	0.5	0.618	1.7	0.1	0.135	0.367	0.203	0.388	0.863	1.09
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-08/31/92	15	1.	0.95	1.6	0.02	0.154	0.393	0.35	0.66	1.2	1.48
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-03/16/95	42	1.1	1.02	1.8	0.02	0.222	0.471	0.19	0.7	1.4	1.57
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/31/76-03/16/95	50	0.085	0.097	0.24	0.	0.004	0.06	0.03	0.05	0.12	0.199
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-03/16/95	50	0.05	0.055	0.14	0.005	0.001	0.034	0.01	0.02	0.08	0.099
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-03/16/95	38	0.04	0.041	0.13	0.005	0.001	0.029	0.005	0.018	0.06	0.07
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-03/16/95	17	2.4	2.471	4.6	1.8	0.373	0.611	1.96	2.1	2.65	3.08
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-03/16/95	17	0.4	0.524	1.3	0.2	0.099	0.315	0.28	0.3	0.65	1.22
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/06/86	25	128.	124.6	200.	68.	1066.917	32.664	73.2	99.5	145.	164.4
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/06/86	19	21.	22.053	50.	9.	95.497	9.772	11.	15.	28.	35.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-03/16/95	51	37.	36.039	57.	20.	56.398	7.51	23.6	31.	41.	43.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-03/16/95	51	11.	10.641	15.	4.3	10.249	3.201	5.9	7.6	14.	14.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-03/16/95	51	9.5	13.196	45.	3.1	93.698	9.68	4.14	6.2	19.	26.8
00931p	SODIUM ADSORPTION RATIO	09/28/60-01/06/86	19	0.6	0.574	1.	0.2	0.079	0.281	0.2	0.3	0.8	1.
00932p	SODIUM, PERCENT	09/28/60-01/06/86	18	20.	19.5	28.	9.	40.029	6.327	10.8	12.	24.75	28.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-03/16/95	50	2.25	2.184	3.1	1.	0.234	0.483	1.51	1.8	2.525	2.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-03/16/95	57	11.	11.667	30.	3.	32.833	5.73	5.	7.5	14.	21.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-03/16/95	51	24.	31.686	97.	12.	457.9	21.399	13.	14.	42.	61.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-03/16/95	51	0.1	0.119	0.3	0.05	0.004	0.061	0.05	0.1	0.1	0.2
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-03/16/95	51	5.8	4.741	9.4	0.5	6.511	2.552	1.24	2.1	6.7	7.6
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	13	1.	1.	3.	0.5	0.417	0.645	0.5	0.5	1.	2.2
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	15	36.	37.867	50.	30.	42.838	6.545	30.	33.	40.	50.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	9 ##	0.25	0.372	0.6	0.25	0.022	0.148	0.25	0.25	0.5	0.6
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	13 ##	0.5	0.923	4.	0.5	0.91	0.954	0.5	0.5	1.	2.8
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	13 ##	0.5	4.231	20.	0.5	39.192	6.26	0.5	0.5	10.	16.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	15 ##	1.5	1.433	3.	0.	0.424	0.651	0.3	1.5	1.5	2.4
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	13	2.	2.423	5.	0.5	1.91	1.382	0.7	1.	3.5	4.6
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-03/16/95	36	10.	18.578	150.	0.1	694.68	26.357	0.3	6.	23.75	47.3
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	13	2.	1.923	6.	0.	2.785	1.669	0.2	0.5	2.5	5.2
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-03/16/95	30	3.5	5.233	32.	2.	30.047	5.482	2.	3.	6.25	8.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	10 ##	5.	5.5	10.	5.	2.5	1.581	5.	5.	5.	9.5
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	13	1.	1.154	4.	0.	1.058	1.028	0.2	0.5	1.5	3.2
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	15 ##	0.5	0.433	1.	0.	0.067	0.258	0.	0.5	0.5	0.7
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	11	120.	119.636	180.	71.	1091.255	33.034	74.8	92.	140.	174.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	11 ##	3.	3.273	6.	3.	0.818	0.905	3.	3.	3.	5.4
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	13	9.	13.385	56.	2.	218.923	14.796	2.4	5.5	16.	45.6
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	11	10.	19.091	60.	5.	299.091	17.294	5.	5.	30.	54.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	11	4.	4.273	9.	2.	4.218	2.054	2.	2.	5.	8.4
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	15 ##	0.5	0.467	0.5	0.	0.017	0.129	0.3	0.5	0.5	0.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	32	72.	389.703	4700.	0.5	763966.562	874.052	28.6	40.25	332.5	1070.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	32	1.856	2.021	3.672	-0.301	0.561	0.749	1.456	1.605	2.517	3.029
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			104.957								

** - Less 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: 3/21 to 7/31 - Station HAFE0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	32	280.	1252.063	12000.	11.	6928771.609	2632.256	16.1	46.25	914.75	4070.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	32	2.437	2.389	4.079	1.041	0.728	0.853	1.199	1.665	2.961	3.606
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			244.976								
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-03/16/95	22	127.5	119.182	146.	55.	738.442	27.174	69.9	100.	140.	145.4
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-03/16/95	51	184.	188.02	323.	88.	2969.9	54.497	118.4	154.	219.	272.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/06/86	18	175.	170.611	310.	84.	3550.252	59.584	87.6	117.5	210.	247.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-01/06/86	19	1570.	2032.842	5000.	594.	1632953.585	1277.871	661.	916.	3070.	3850.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-01/06/86	19	0.24	0.249	0.44	0.12	0.008	0.087	0.13	0.17	0.3	0.37
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	31	94.	89.968	100.	62.	100.899	10.045	72.4	84.	96.	99.8
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/06/86	9	0.04	0.042	0.06	0.	0.	0.02	0.	0.03	0.06	0.06
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/06/86	19	0.37	0.391	0.74	0.	0.04	0.2	0.18	0.25	0.58	0.67
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	13 ##	0.05	0.108	0.5	0.05	0.017	0.13	0.05	0.05	0.1	0.4
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-08/01/94	44	19.	32.591	169.	2.	1705.503	41.298	5.	7.	37.25	77.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-01/06/86	13	972.	1537.231	6020.	35.	4293664.192	2072.116	40.2	61.5	2410.	5764.

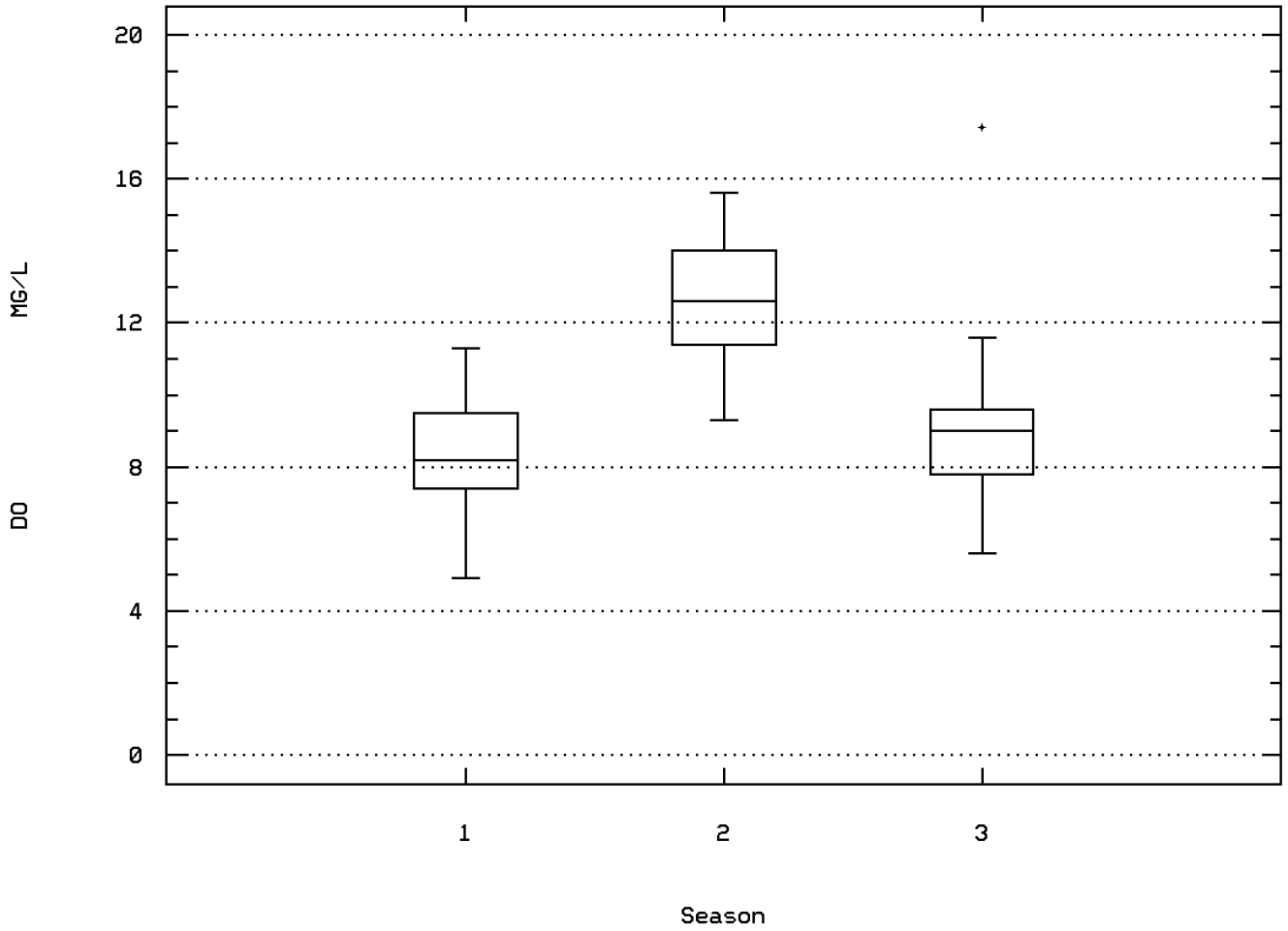
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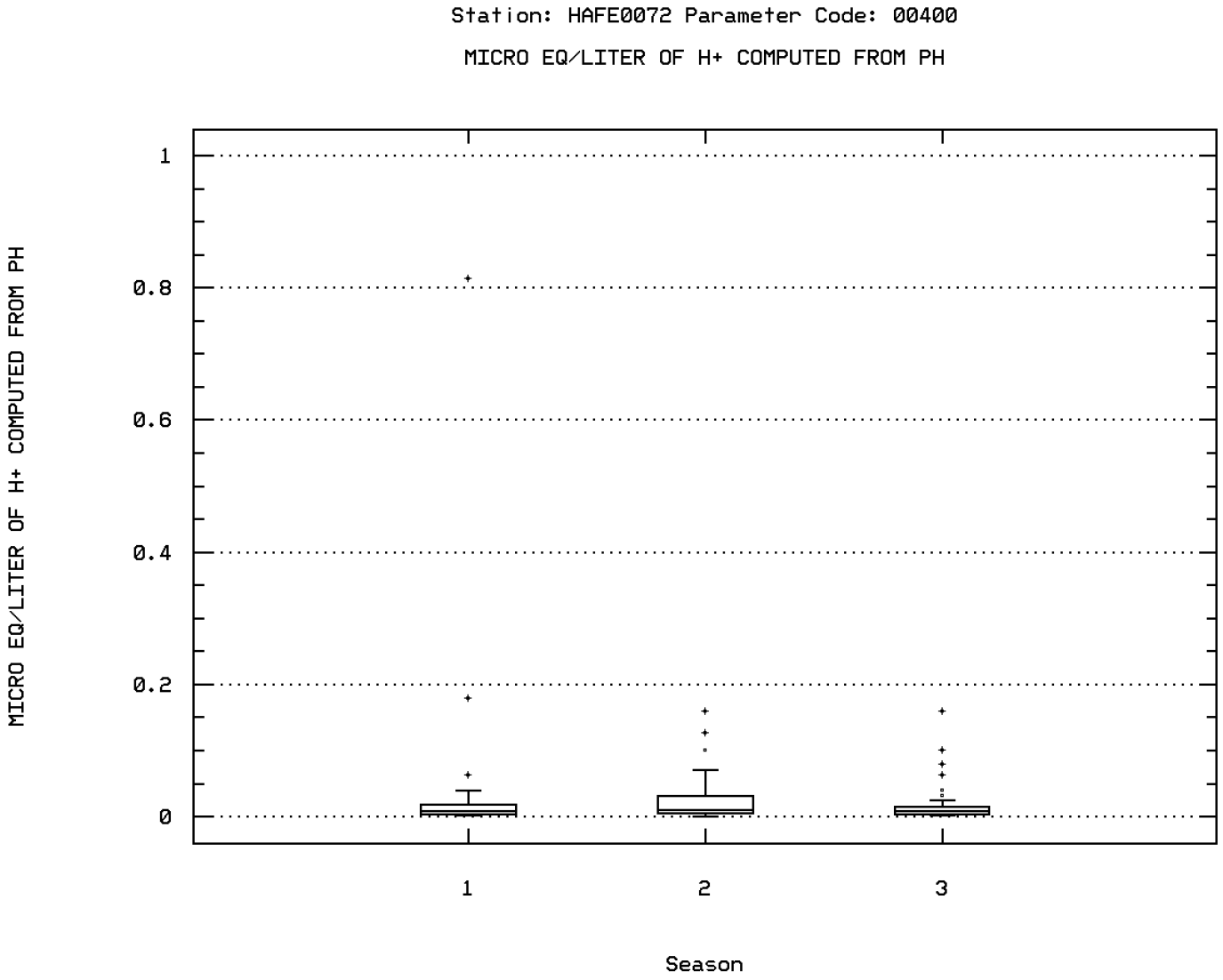
SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00300

OXYGEN, DISSOLVED



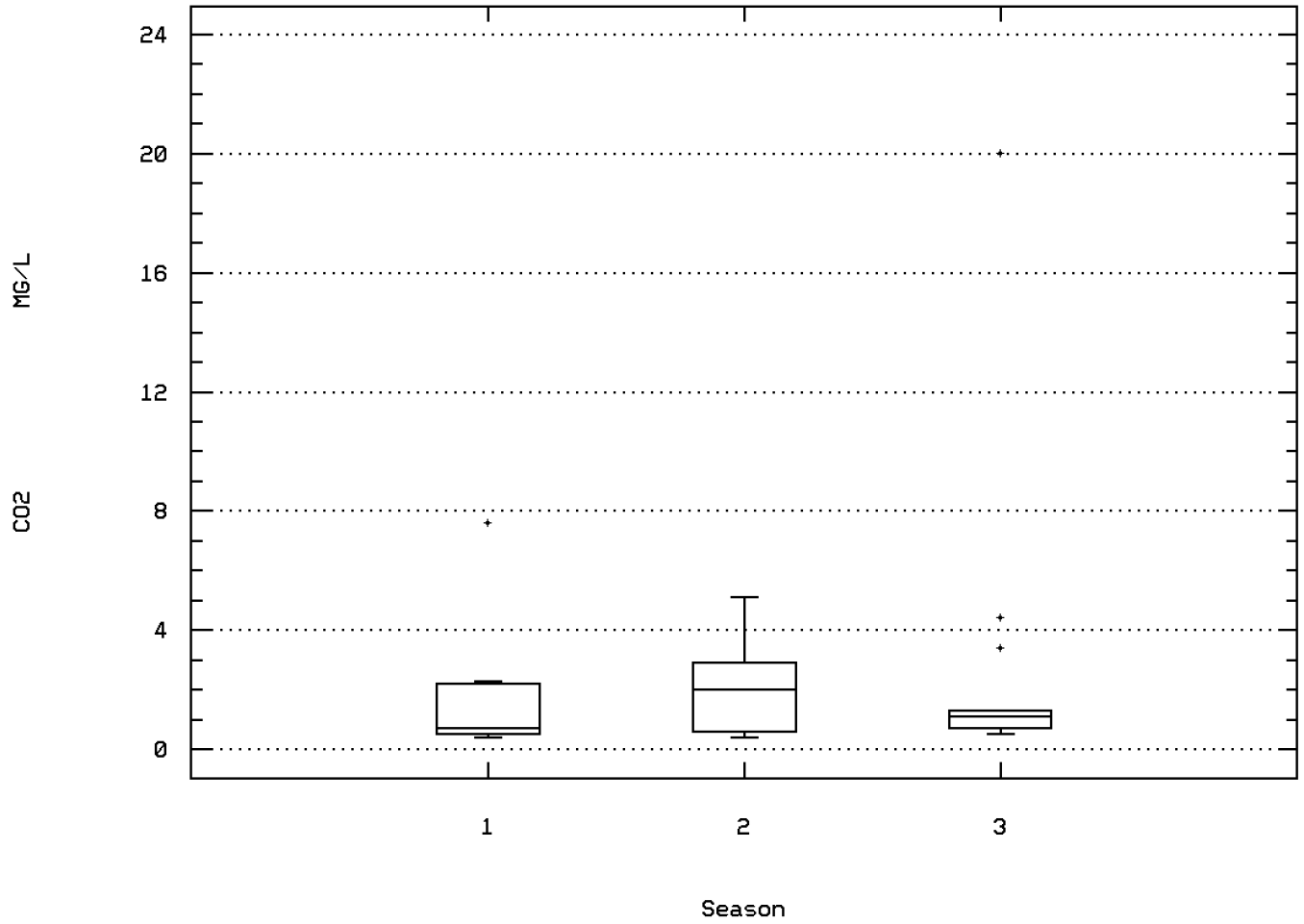
SHENANDOAH R AT MILLVILLE, WV



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00405

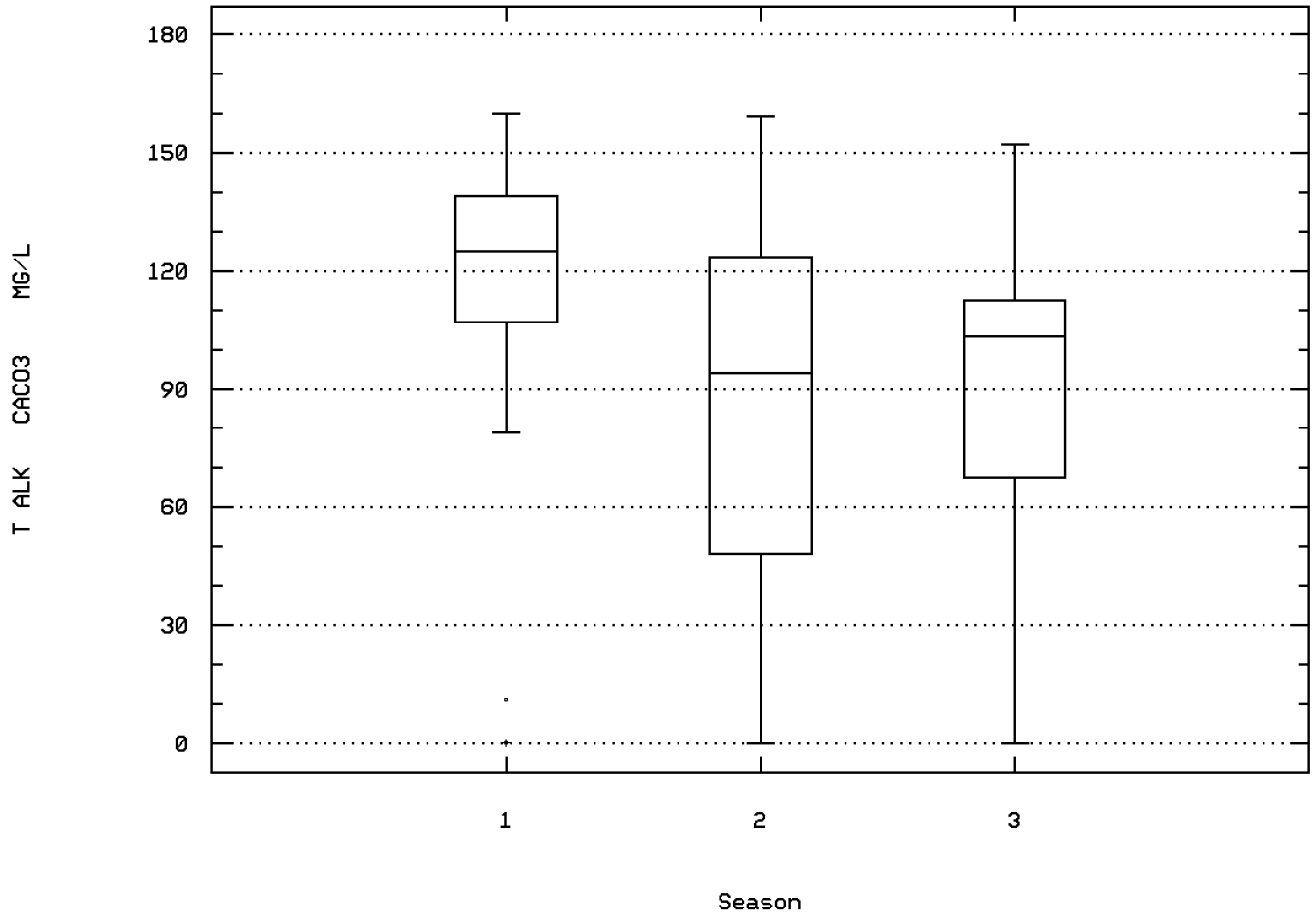
CARBON DIOXIDE (MG/L AS CO2)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00410

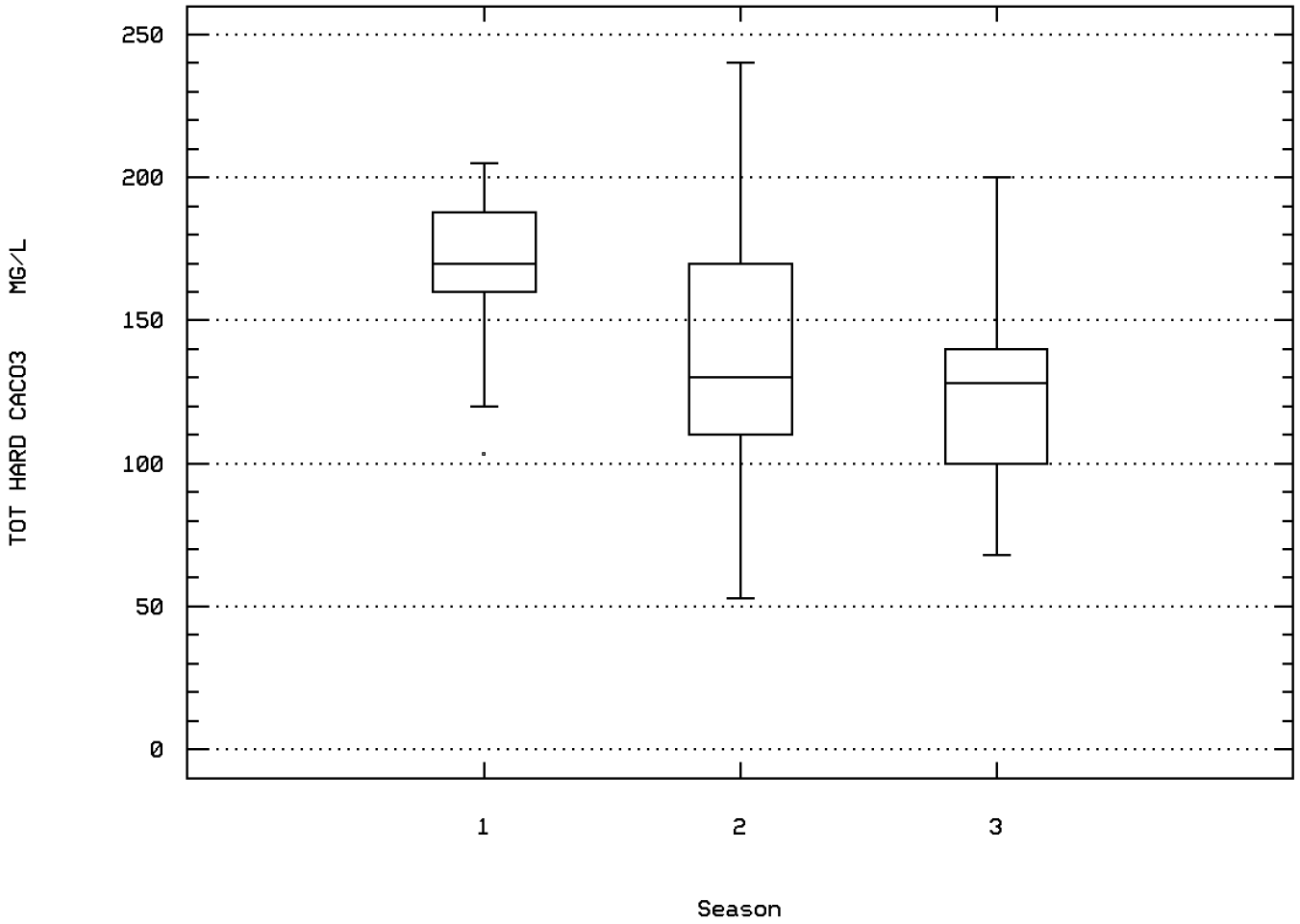
ALKALINITY, TOTAL (MG/L AS CACO3)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00900

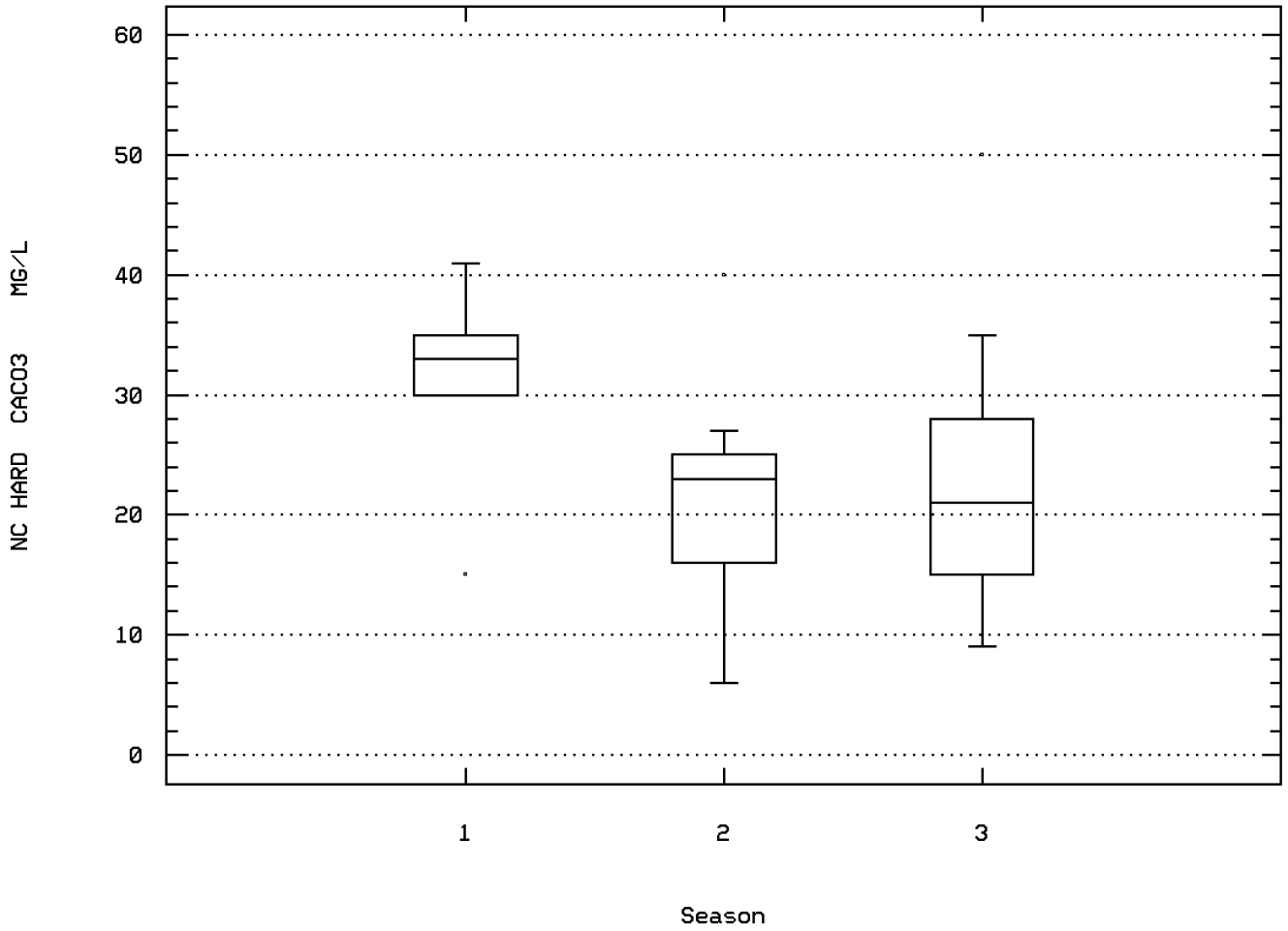
HARDNESS, TOTAL (MG/L AS CACO3)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00902

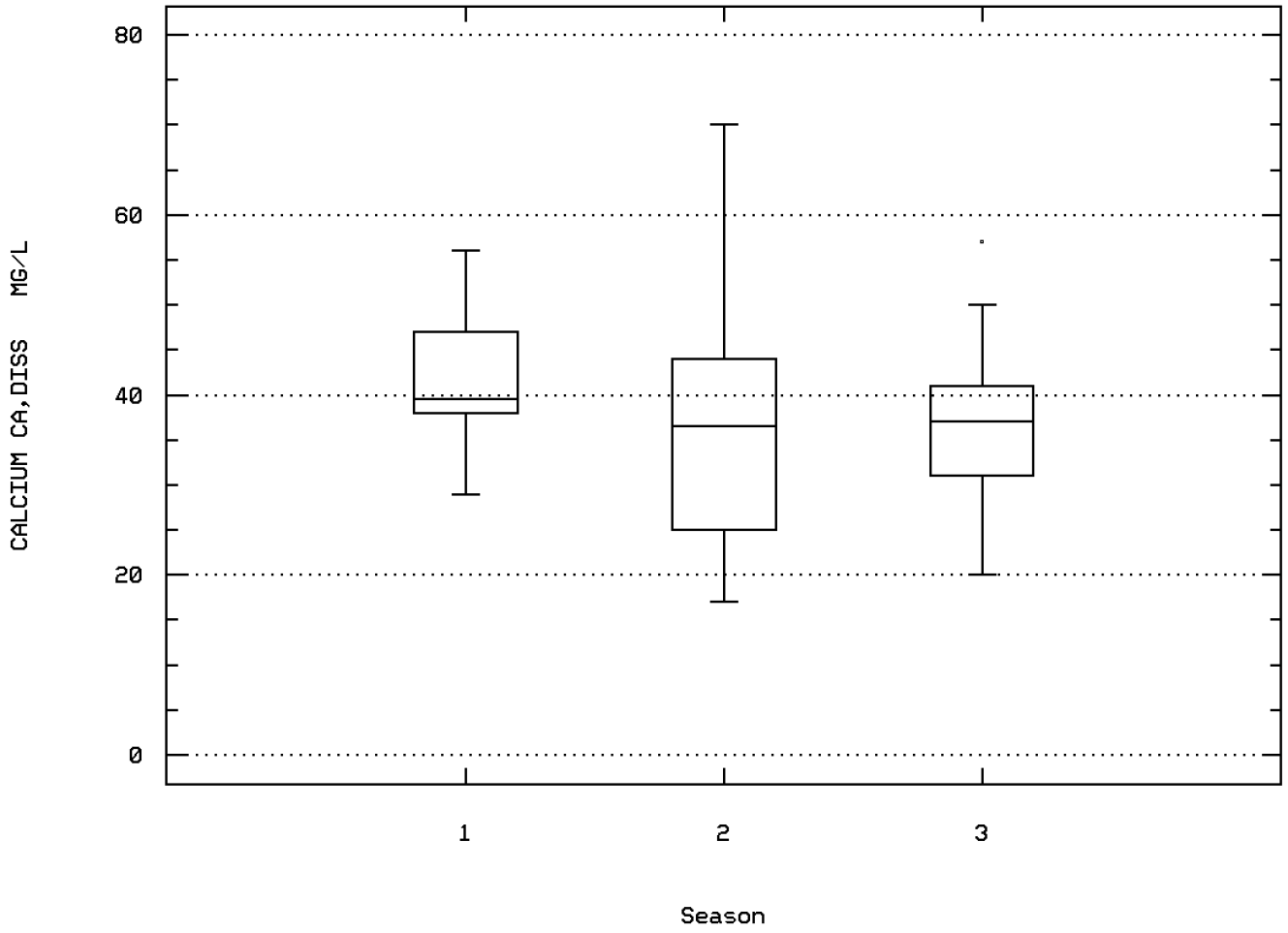
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00915

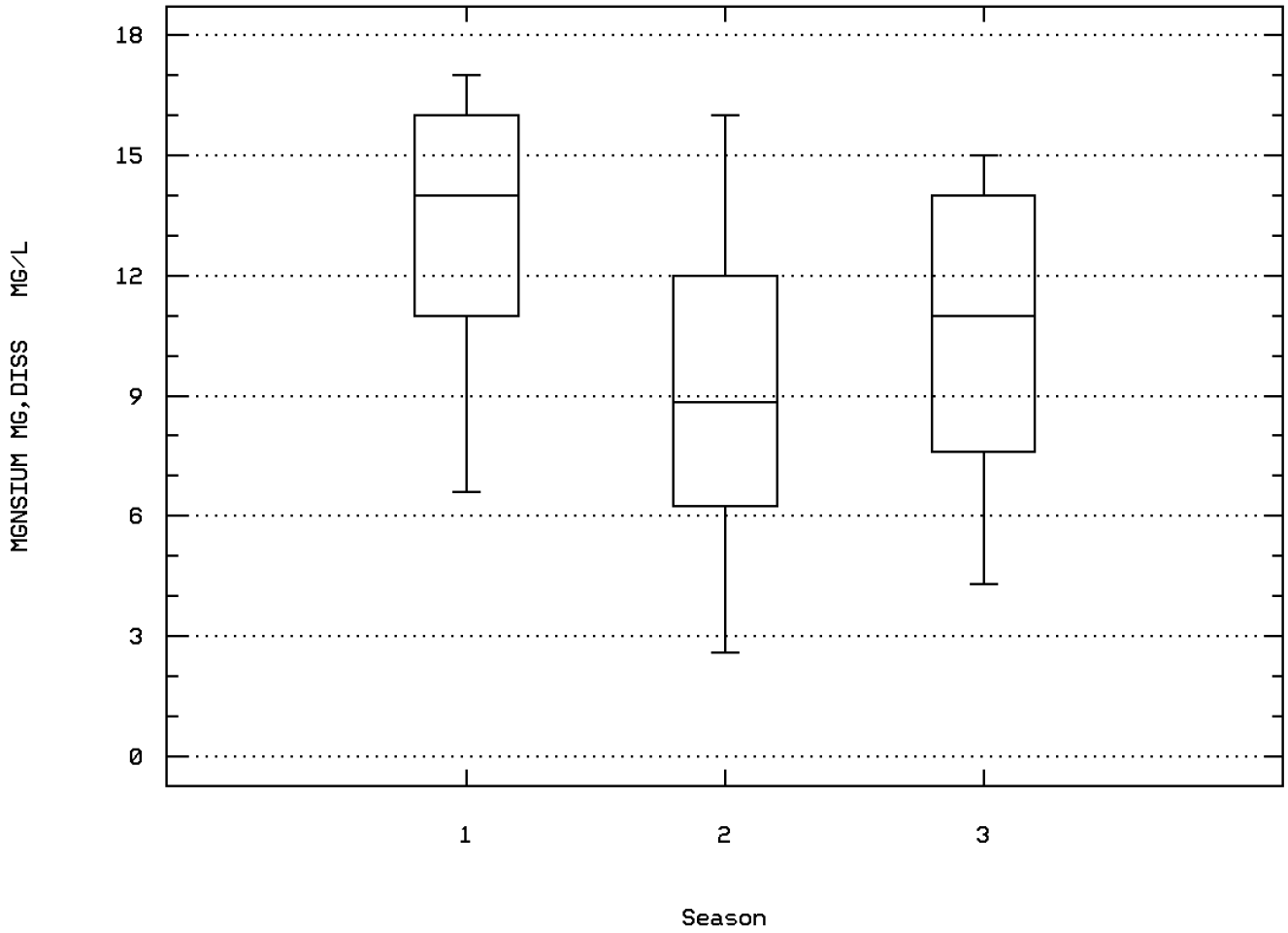
CALCIUM, DISSOLVED (MG/L AS CA)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00925

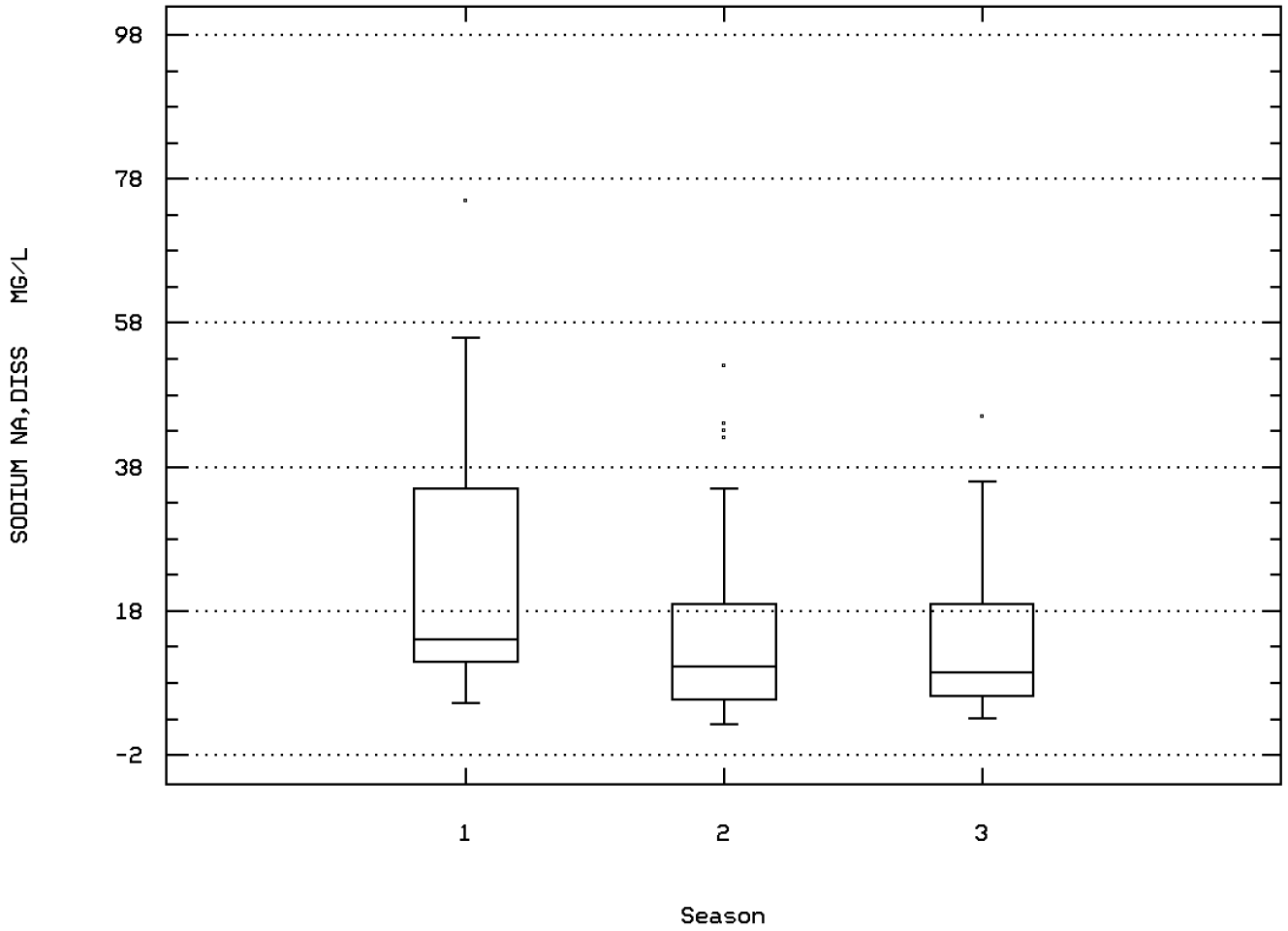
MAGNESIUM, DISSOLVED (MG/L AS MG)



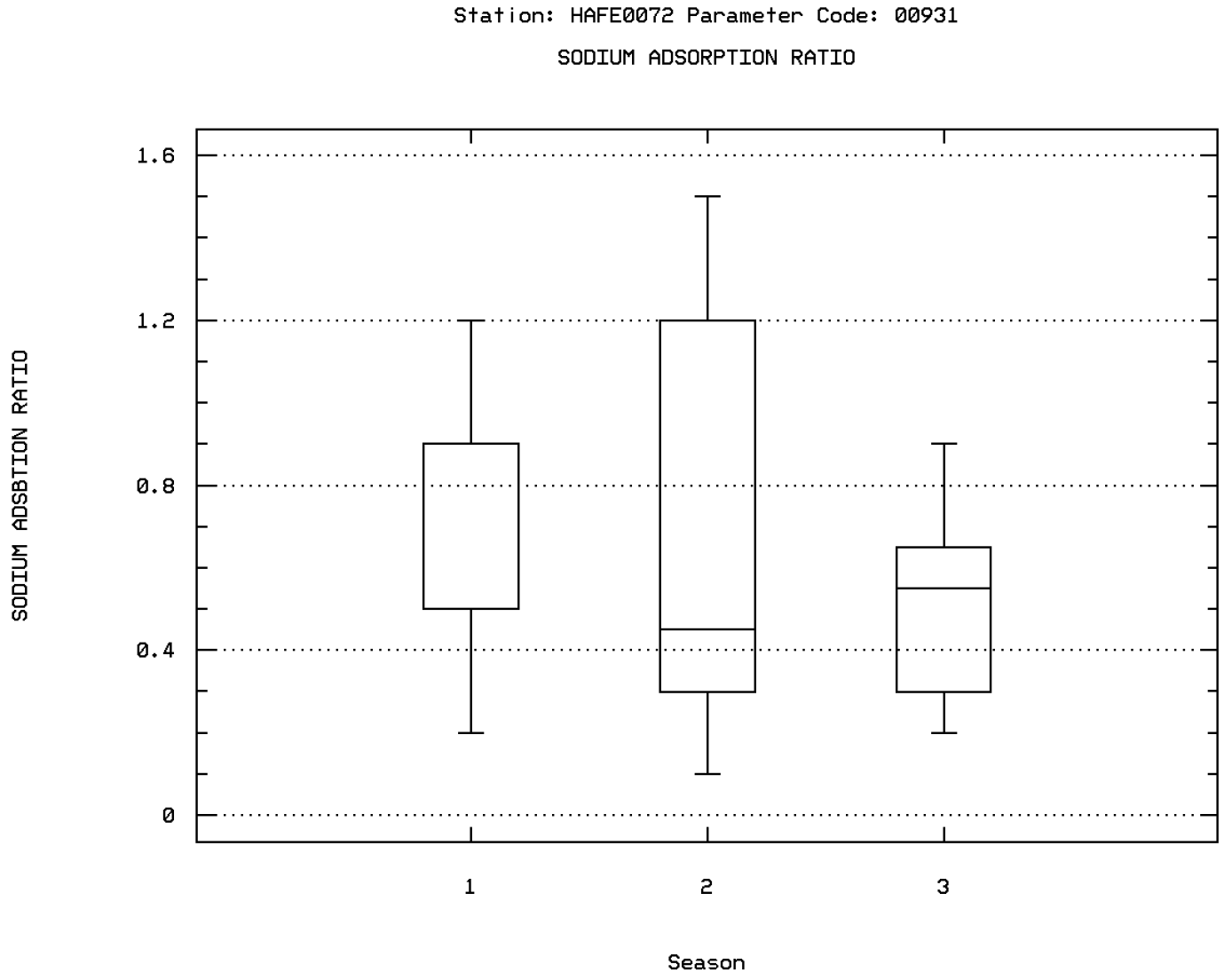
SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00930

SODIUM, DISSOLVED (MG/L AS NA)



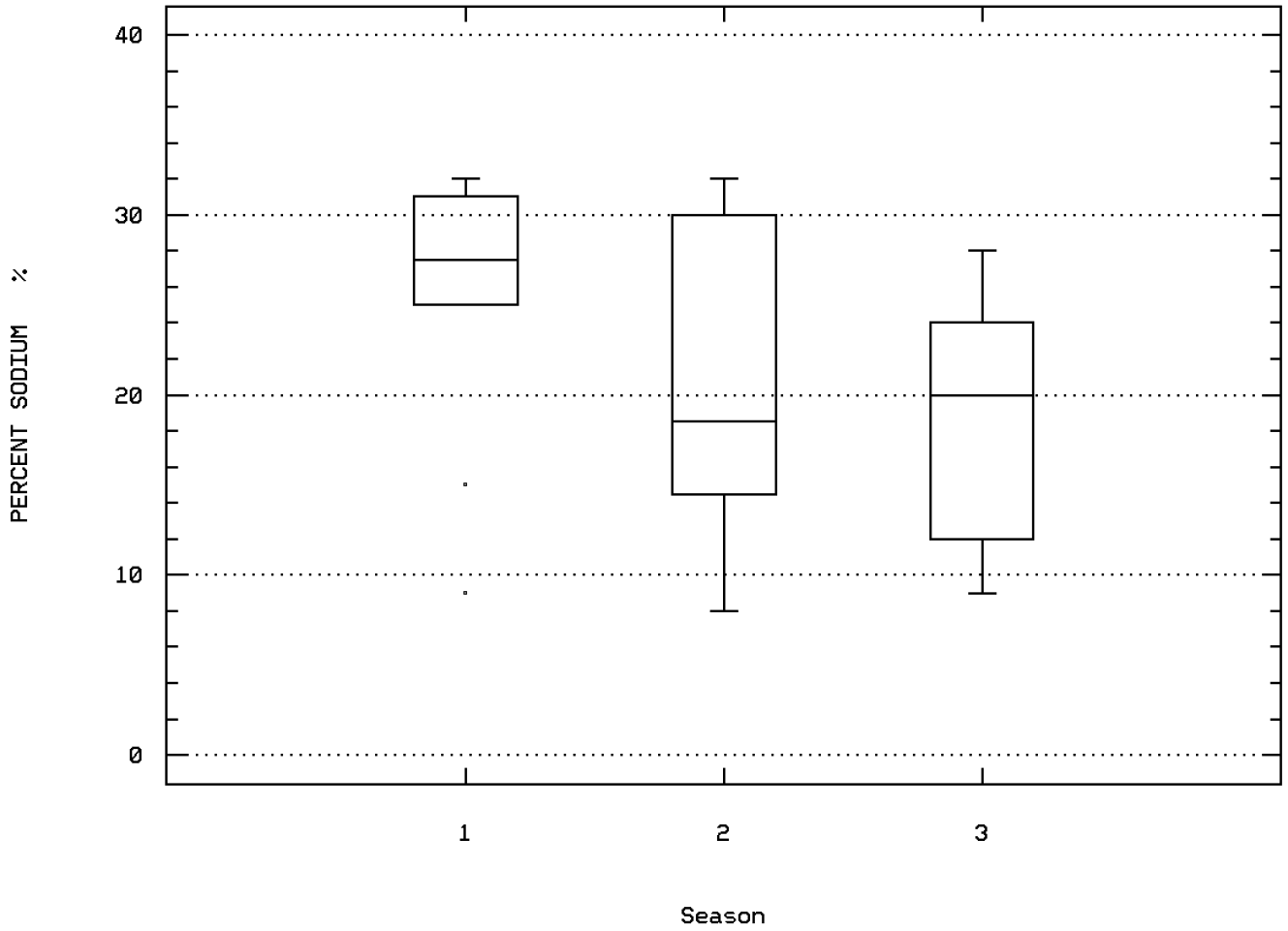
SHENANDOAH R AT MILLVILLE, WV



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00932

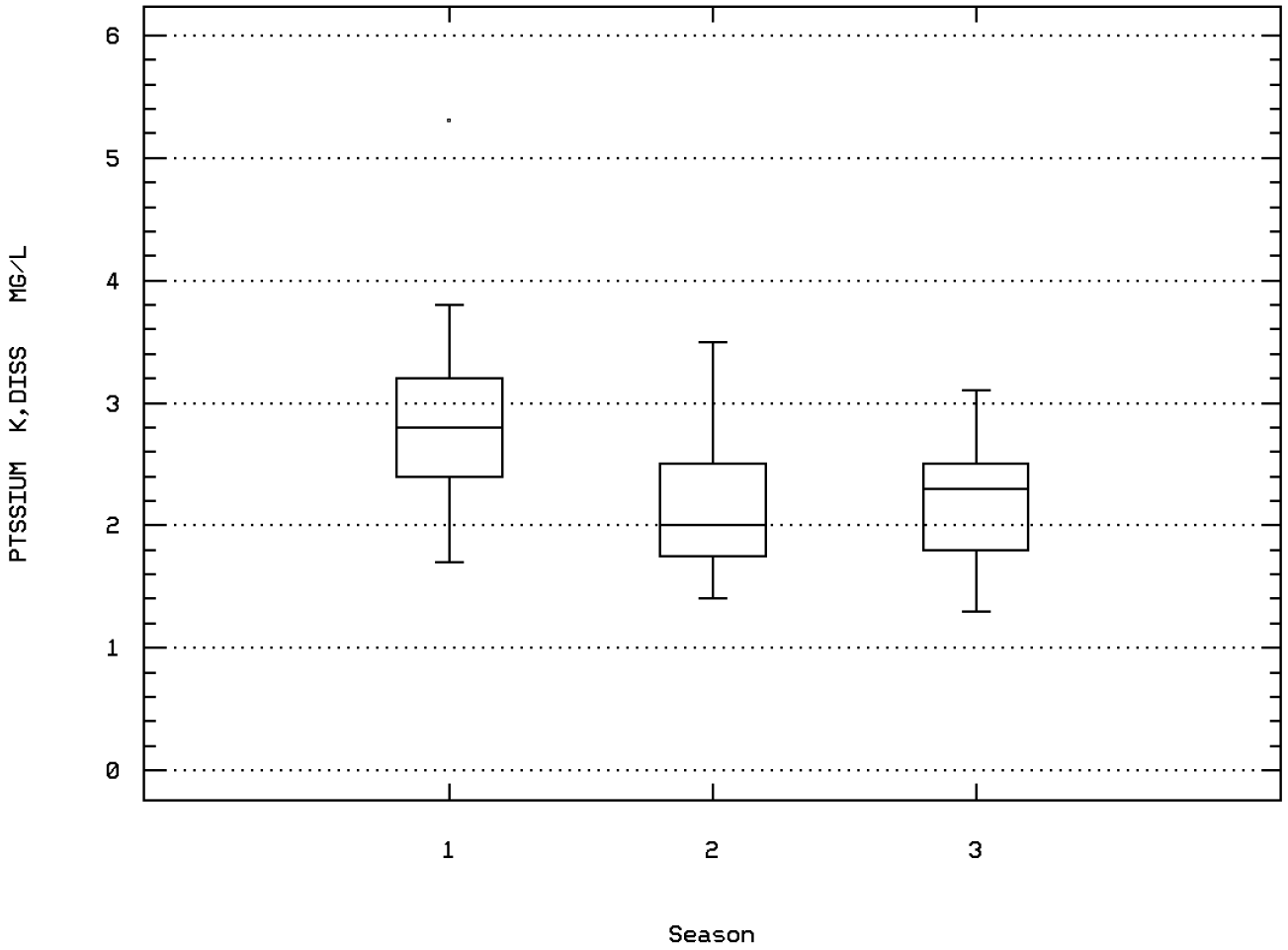
SODIUM, PERCENT



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00935

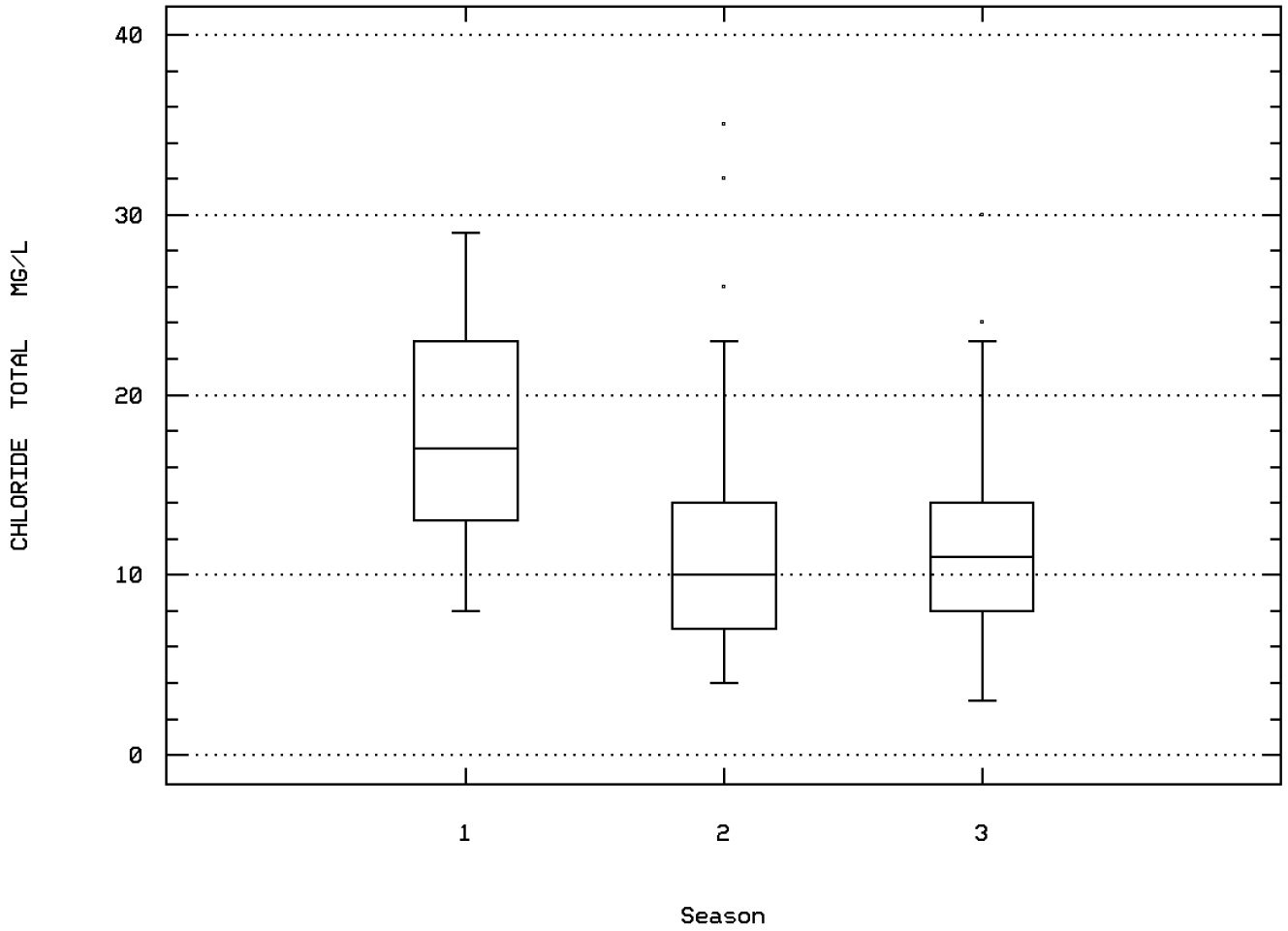
POTASSIUM, DISSOLVED (MG/L AS K)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00940

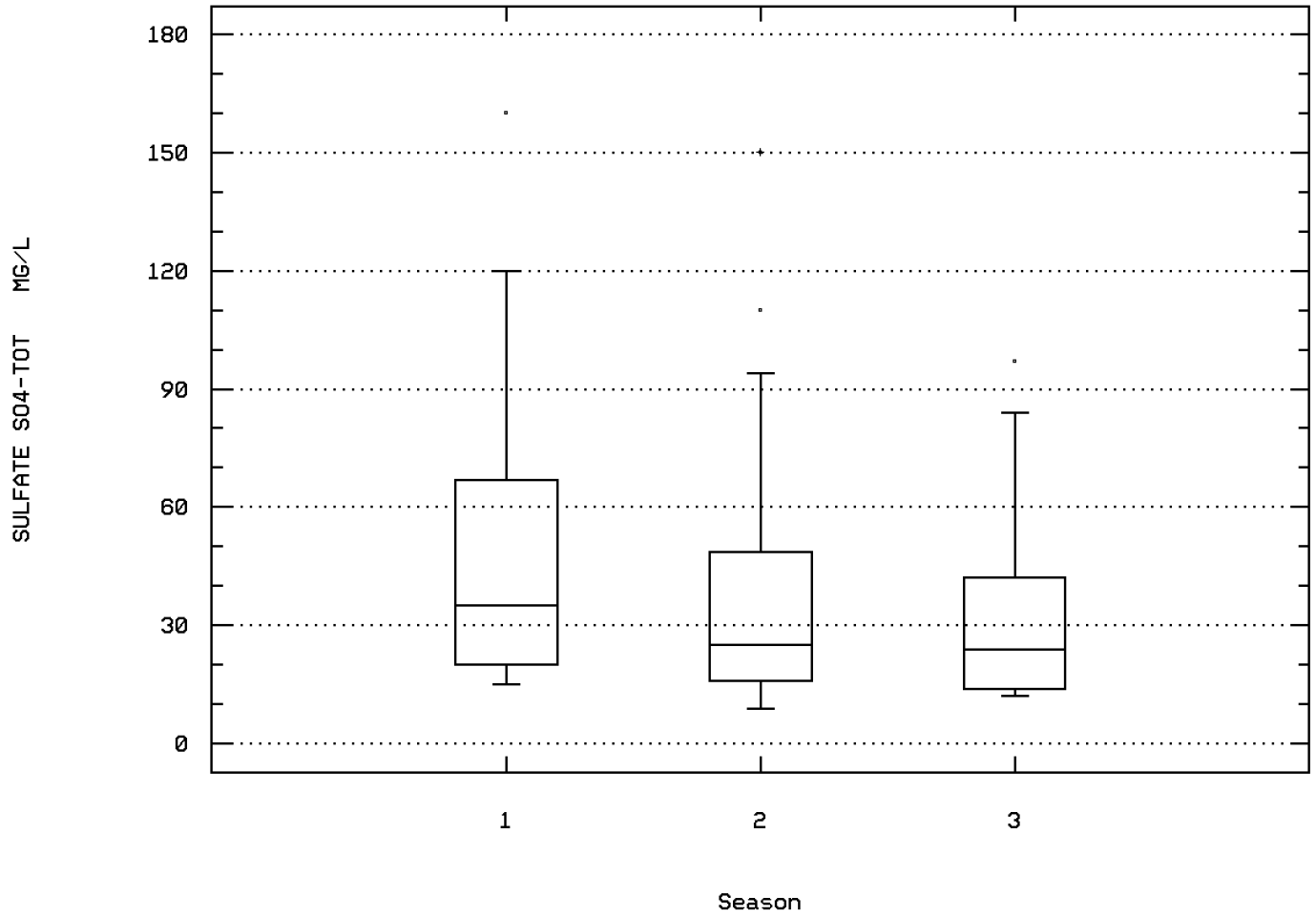
CHLORIDE,TOTAL IN WATER



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00945

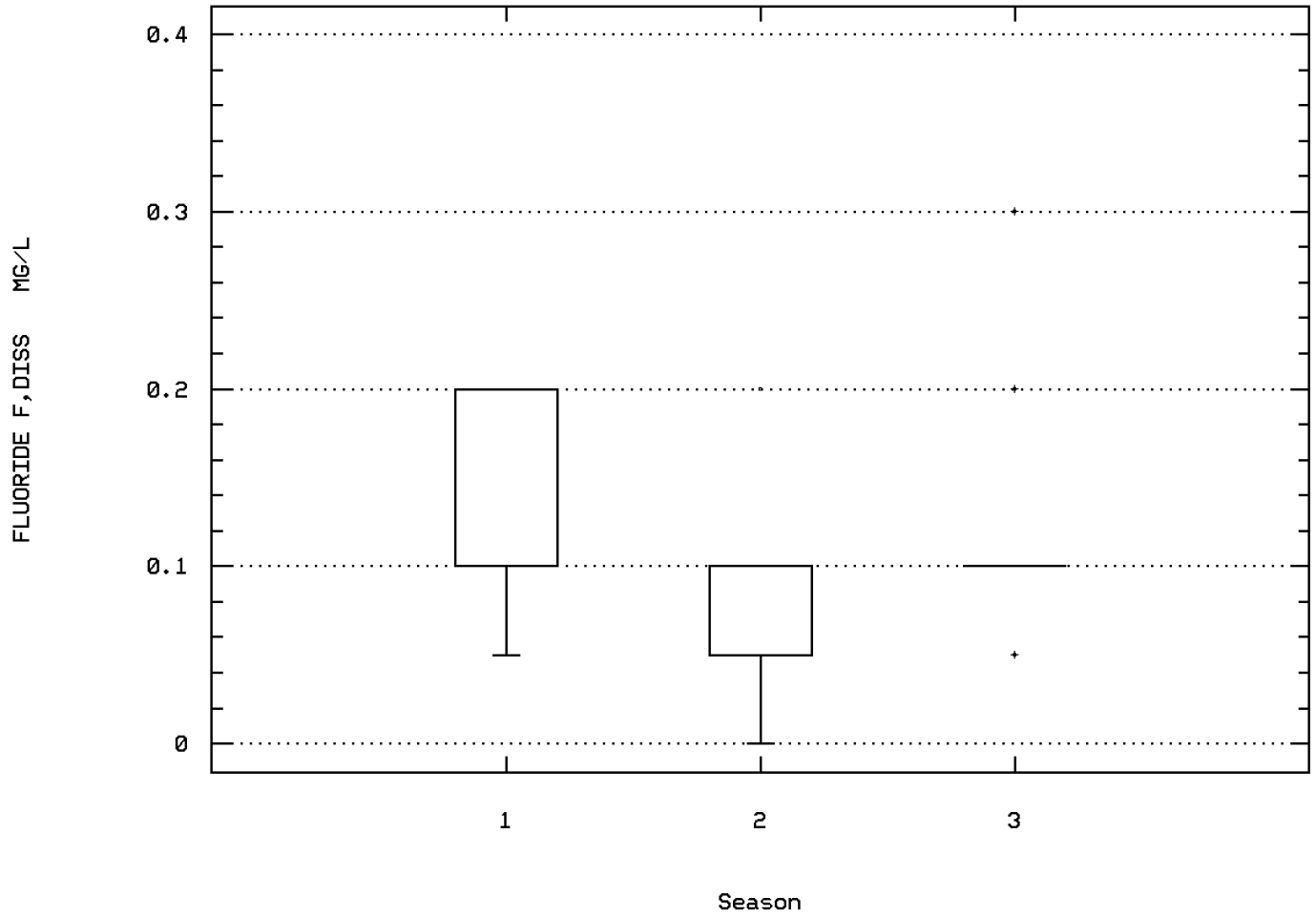
SULFATE, TOTAL (MG/L AS SO4)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00950

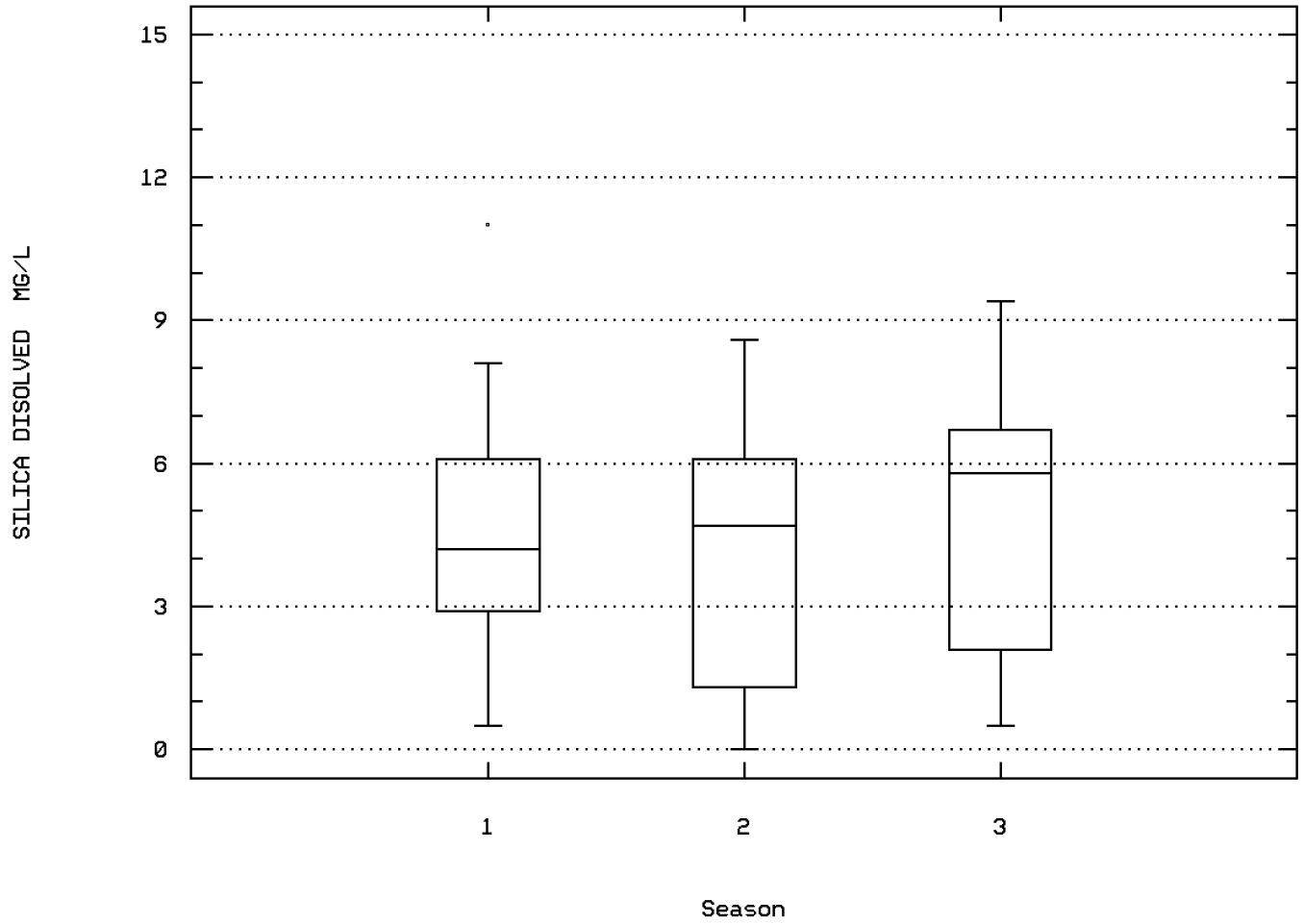
FLUORIDE, DISSOLVED (MG/L AS F)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 00955

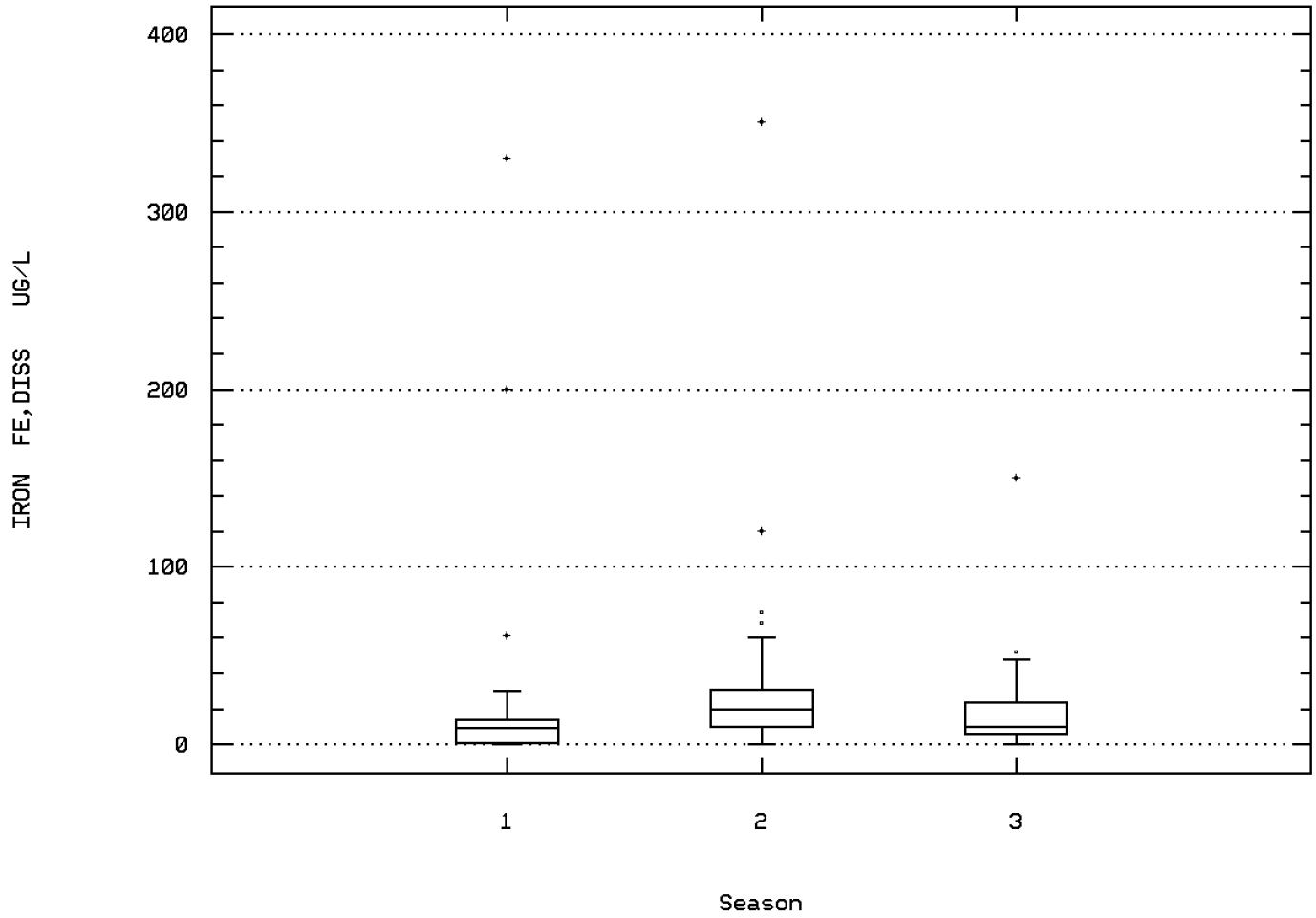
SILICA, DISSOLVED (MG/L AS SI02)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 01046

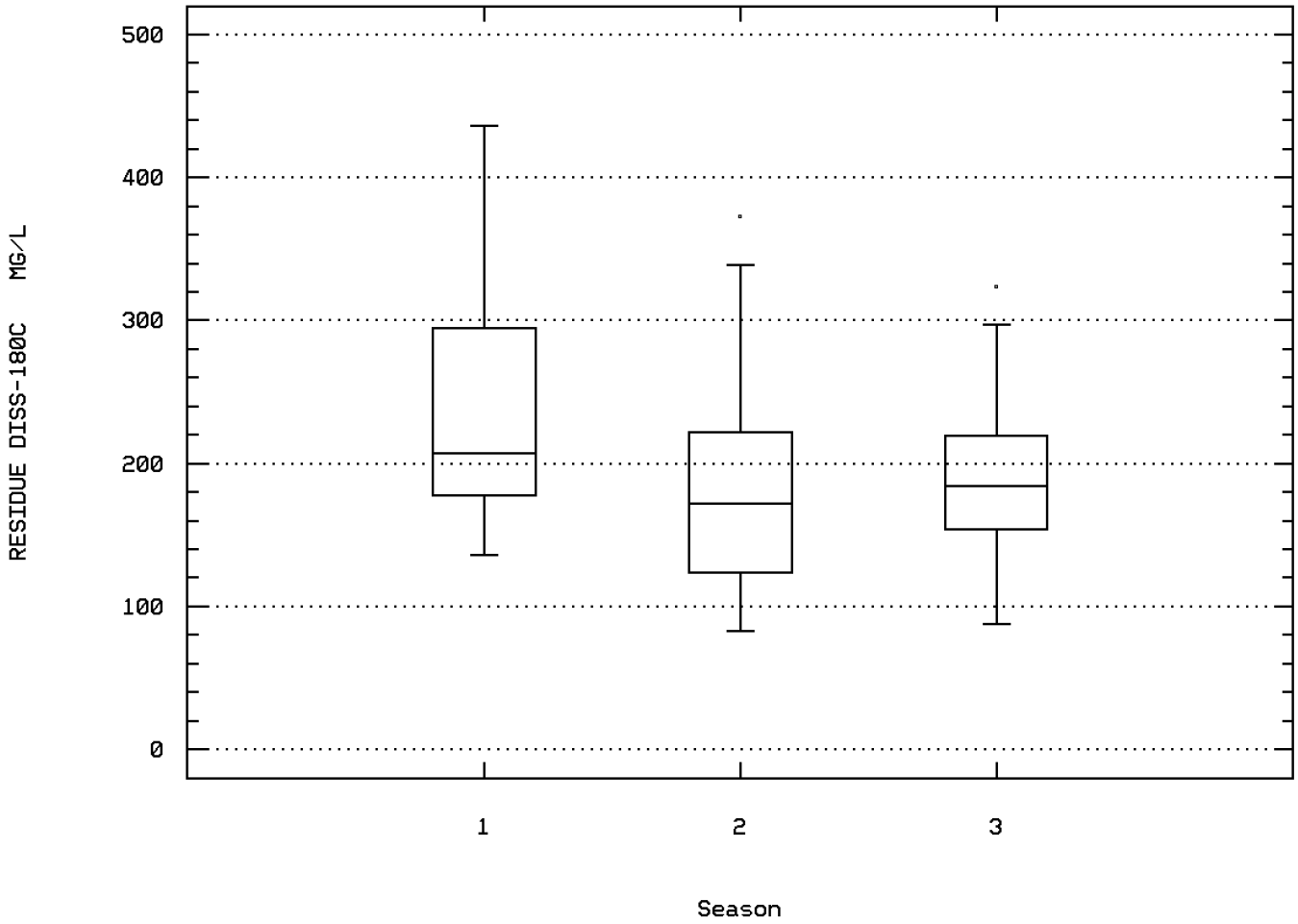
IRON, DISSOLVED (UG/L AS FE)



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 70300

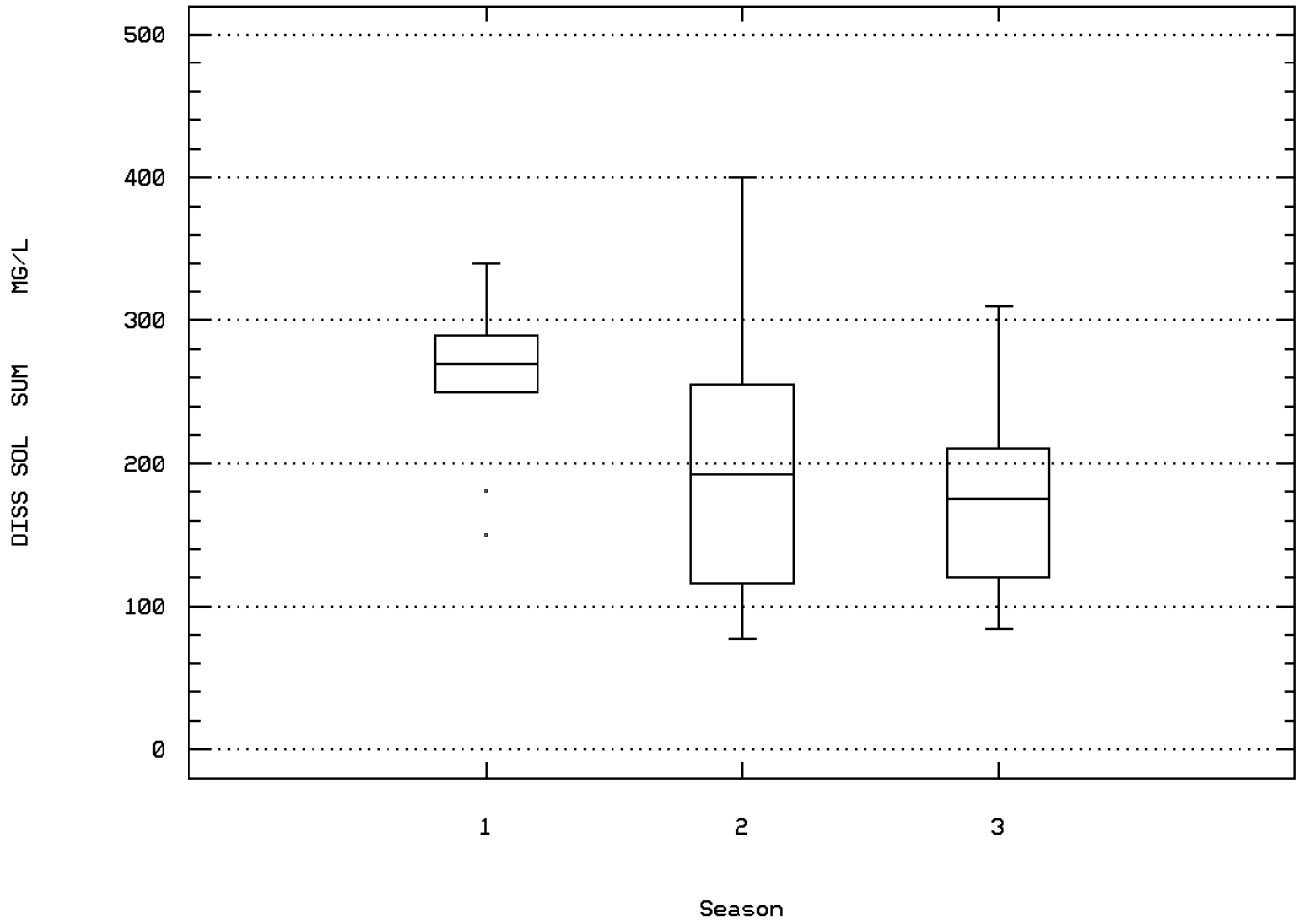
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



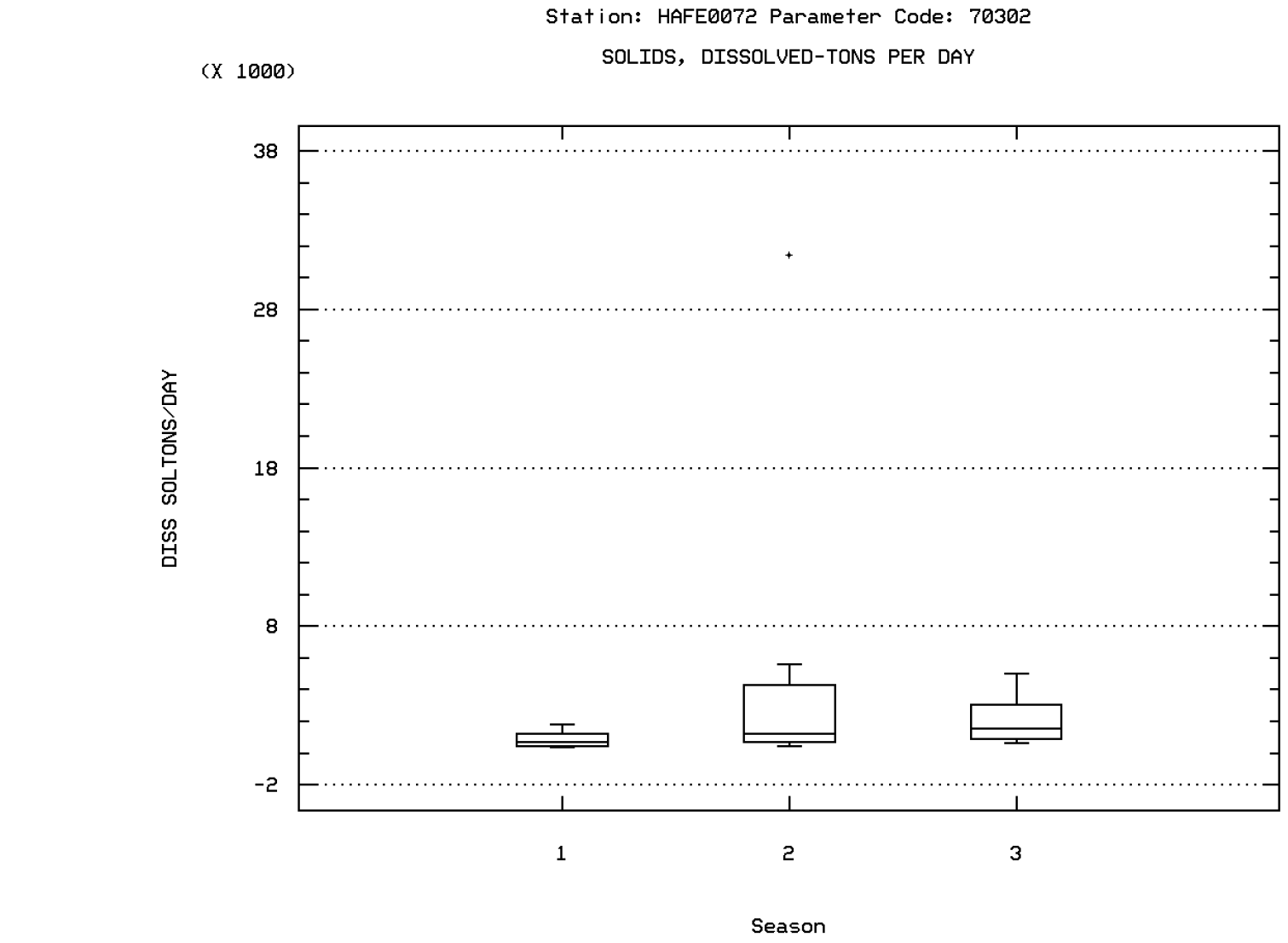
SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 70301

SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (



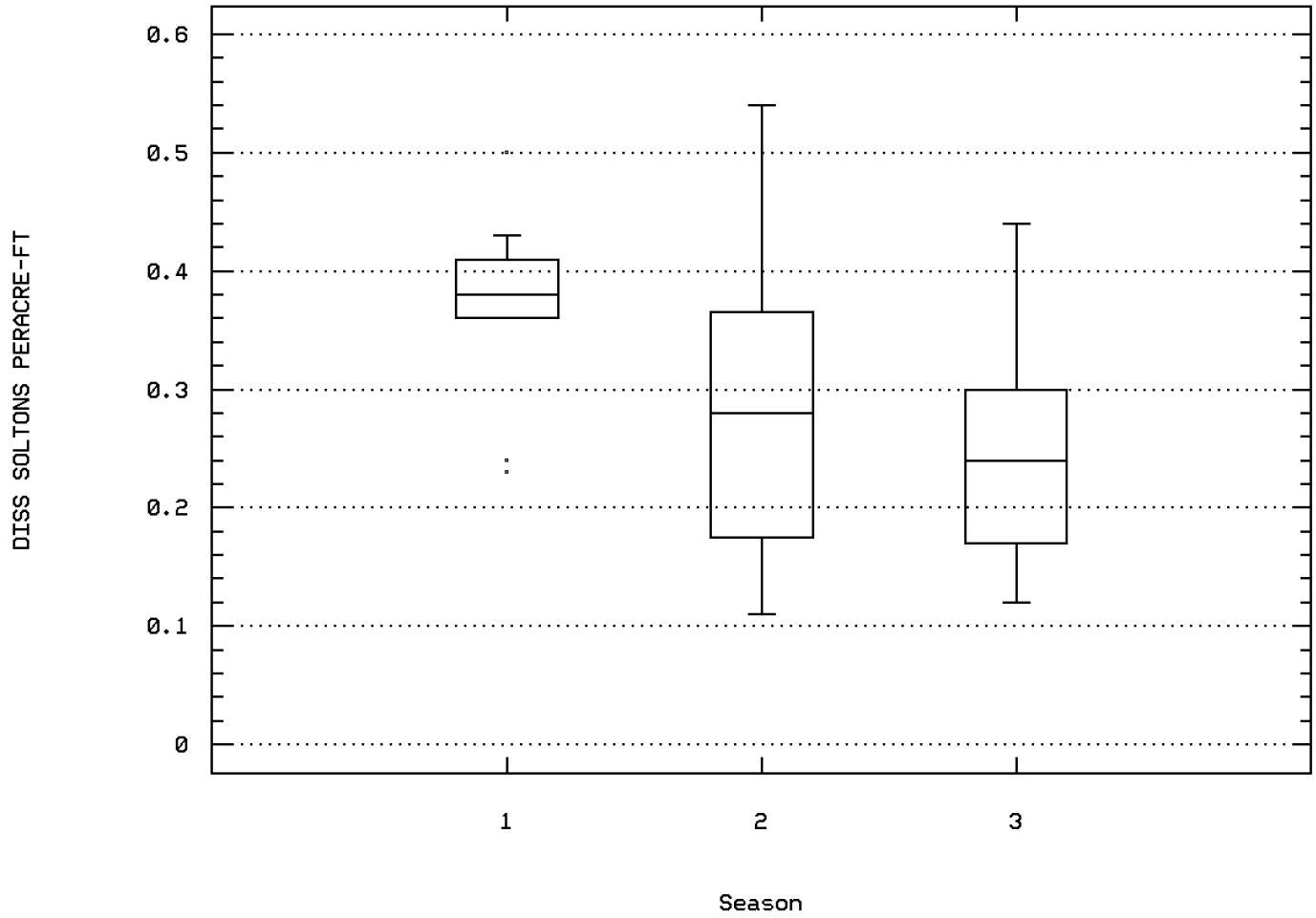
SHENANDOAH R AT MILLVILLE, WV



SHENANDOAH R AT MILLVILLE, WV

Station: HAFE0072 Parameter Code: 70303

SOLIDS, DISSOLVED-TONS PER ACRE-FT



SHENANDOAH R AT MILLVILLE, WV

Station Inventory for Station: HAFE0073

NPS Station ID: HAFE0073
LAT/LON: 39.245837/ -77.793615
Agency: 112WRD
Date Created: 11/18/75
Location: FORGE RUN NR MOUNTAIN MISSION
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 391445077473701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070007000600.00
RF3 Mile Point: 1.44
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	2	18.25	18.25	24.5	12.	78.125	8.839	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	1	756.	756.	756.	756.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/74-08/03/88	2	116.	116.	132.	100.	512.	22.627	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.65	7.65	7.8	7.5	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.625	7.625	7.8	7.5	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/74-08/03/88	2	0.024	0.024	0.032	0.016	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	1	0.021	0.021	0.021	0.021	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	2	13.	13.	15.	11.	8.	2.828	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	2	4.45	4.45	5.6	3.3	2.645	1.626	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	2	3.	3.	4.	2.	2.	1.414	**	**	**	**

** - Less 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: HAFE0073

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0073

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0074

NPS Station ID: HAFE0074
LAT/LON: 39.313337/ -77.797226
Agency: 1113UPEN
Date Created: / /
Location: HALLTOWN PAPERBOARD CULVERT
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/IND/TREATD/OUTFL/STREAM
STORET Station ID(s): POTOMAC 083 /083 /HALPAP 17
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 4.350
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070007000105.03
RF3 Mile Point: 5.57
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0074

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: HAFE0075

NPS Station ID: HAFE0075
LAT/LON: 39.313337/ -77.797226
Agency: 1113UPEN
Date Created: / /
Location: HALLTOWN PAPRBOARD PIPE EFFLUENT
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/IND/TREATD/OUTFL/STREAM
STORET Station ID(s): POTOMAC 084 /084 /HALPAP 18
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 4.350
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070007000500.00
RF3 Mile Point: 2.98
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0075

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: HAFE0076

NPS Station ID: HAFE0076
LAT/LON: 39.313337/ -77.798059
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Flowing Spring Run south of Halltown, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550928 /S-004-02 /X-MIN-88S006
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 6
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-1
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000105.03
RF3 Mile Point: 5.94
Distance from RF3: 0.03
On/Off RF3:
Description:
Flowing Spring Run at County Route 23/3 Highway Bridge south of Community of Halltown, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department of Natural Resources, Romney, West Virginia Monthly Sampling done from October 1987 to October 1988
> Charles Town WV-VA-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/04/54-09/03/88	15	15.	13.733	24.	2.	33.352	5.775	5.	10.	18.	21.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/04/54-08/04/54	3	45.	290.	785.	40.	183775.	428.69	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/03/88	12	520.	501.25	550.	420.	1682.386	41.017	427.5	465.	530.	547.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/03/88-08/03/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/04/54-08/04/54	3	5.4	4.633	7.5	1.	11.003	3.317	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/04/54-08/04/54	3	2.3	62.133	183.	1.1	10956.923	104.675	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/03/88	12	8.	10.833	24.	2.	55.606	7.457	2.6	4.	19.	22.8
00400	PH (STANDARD UNITS)	08/04/54-08/04/54	3	7.3	7.3	7.9	6.7	0.36	0.6	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/04/54-08/04/54	3	7.3	7.058	7.9	6.7	0.448	0.669	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/04/54-08/04/54	3	0.05	0.087	0.2	0.013	0.01	0.099	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/03/88	12	8.1	8.1	8.3	7.8	0.018	0.135	7.86	8.	8.2	8.27
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/03/88	12	8.1	8.079	8.3	7.8	0.019	0.137	7.86	8.	8.2	8.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/03/88	12	0.008	0.008	0.016	0.005	0.	0.003	0.005	0.006	0.01	0.014
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/03/88	12	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/03/88	12	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/03/88	12	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/54-09/03/88	15	240.	241.6	318.	218.	565.971	23.79	218.6	223.	247.	279.6
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/04/54-08/04/54	3	10.	21.	49.	4.	597.	24.434	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/04/54-08/04/54	3	390.	784.	1633.	329.	541531.	735.888	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/04/54-08/04/54	3	291.	360.	556.	233.	29653.	172.2	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/04/54-09/03/88	15	28.	105.933	1077.	5.	72943.781	270.081	8.6	19.	65.	488.4
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/03/88	12	0.535	0.619	1.46	0.29	0.125	0.354	0.299	0.365	0.68	1.376
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/03/88	12	4.95	4.667	6.6	2.7	1.244	1.115	2.88	3.75	5.35	6.39
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/03/88	12	0.087	0.107	0.219	0.061	0.003	0.05	0.061	0.071	0.149	0.203
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/54-09/03/88	15	300.	291.867	330.	228.	775.124	27.841	241.2	272.	314.	322.8
00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/54-09/03/88	15	22.	19.667	27.	5.	36.381	6.032	7.4	19.	24.	25.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	30.	33.818	48.	28.	51.564	7.181	28.4	30.	34.	48.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-08/03/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-08/03/88	1	60.	60.	60.	60.	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: HAFE0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-08/03/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-08/03/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-08/03/88	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-08/03/88	11	340.	498.364	2000.	156.	265042.255	514.823	176.	270.	404.	1737.2
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-08/03/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-08/03/88	11	28.	39.091	78.	20.	374.691	19.357	20.	24.	54.	74.4
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-08/03/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-08/03/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-08/03/88	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-08/03/88	11	210.	347.091	1500.	20.	180828.291	425.239	39.6	124.	270.	1350.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-08/03/88	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/04/54-08/04/54	2	16150.	16150.	28000.	4300.	280845000.	16758.431	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/04/54-08/04/54	2	4.04	4.04	4.447	3.633	0.331	0.575	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10972.693								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/03/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-08/03/88	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: HAFE0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	1	0.33	3	1	0.33									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	1	0.33	3	1	0.33									
00400	PH	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	0	0.00	3	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	15	0	0.00	6	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	15	0	0.00	6	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	2	1.00	2	2	1.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HAFE0077

NPS Station ID: HAFE0077
LAT/LON: 39.349727/ -77.800560
Agency: 112WRD
Date Created: 11/18/75
Location: ELK BRANCH TRIB NR CHARLES TOWN
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 392059077480201
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 4.80
On/Off RF1:
RF3 Index: 02070004008800.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-09/25/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-09/25/74	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-09/25/74	1	490.	490.	490.	490.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/74-09/25/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/74-09/25/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/74-09/25/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-09/25/74	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-09/25/74	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-09/25/74	1	19.	19.	19.	19.	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: HAFE0077

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									

& - 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: HAFE0078

NPS Station ID: HAFE0078 LAT/LON: 39.435004/ -77.801115 Agency: 21MDOEP Date Created: 02/01/86
Location: POTOMAC RIVER AT GAG. STA. BE. BR. ON RT. 34 FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): POT1830
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004009 RF1 Mile Point: 3.800 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 02070004001100.20 RF3 Mile Point: 0.20 Distance from RF3: 0.04 On/Off RF3:
Description:
EASYSTOR WAS USED TO ENTER THE INFO POTOMAC RIVER WATERBODY
NO STATION DEPTH INFORMATION FOR LAND STATION

Parameter Inventory for Station: HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	70	14.8	14.727	29.4	0.2	73.514	8.574	4.03	6.875	22.55	27.13
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	60	14.75	15.108	33.5	-1.5	91.187	9.549	4.55	5.75	22.75	28.
00023	SAMPLE WEIGHT IN POUNDS	10/09/80-10/27/83	11	2.	2.255	3.8	1.	1.273	1.128	1.02	1.2	3.3	3.76
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	58	77.5	59.483	100.	0.	1700.605	41.238	0.	10.	100.	100.
00035	WIND VELOCITY (MILES PER HOUR)	01/21/91-04/05/95	3	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/07/80-12/18/85	6	2869.	4289.833	12500.	731.	17666432.567	4203.146	**	**	**	**
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	04/07/80-12/18/85	7	10.	10.029	20.	3.4	30.912	5.56	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	60	5.2	9.962	160.	1.7	443.816	21.067	2.21	3.8	8.175	18.89
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/08/94-06/08/94	1	322.	322.	322.	322.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	70	322.	335.6	584.	158.	9674.504	98.359	222.	261.25	421.25	460.8
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	69	9.6	9.926	14.8	6.1	5.1	2.258	7.1	8.05	11.65	13.4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/07/80-12/18/85	8	99.85	103.075	137.	89.3	233.556	15.283	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	60	1.9	1.81	6.4	0.5	1.329	1.153	0.5	0.9	2.075	3.3
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	68	7.9	7.923	8.9	6.9	0.129	0.359	7.59	7.7	8.1	8.41
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	68	7.9	7.766	8.9	6.9	0.154	0.393	7.59	7.7	8.1	8.41
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	68	0.013	0.017	0.126	0.001	0.	0.02	0.004	0.008	0.02	0.026
00403	PH, LAB, STANDARD UNITS SU	06/09/80-11/15/83	2	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/09/80-11/15/83	2	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/80-11/15/83	2	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	66	81.	87.97	153.	32.	856.214	29.261	48.7	66.75	112.	125.3
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	62	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	04/07/80-05/02/83	7	176.	182.857	310.	118.	4023.476	63.431	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/07/80-12/18/85	7	10.	9.429	16.	3.	15.286	3.91	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	62	7.5	11.516	84.	1.	180.221	13.425	3.	4.	12.25	27.8
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	67	1.95	1.929	3.1	0.8	0.249	0.499	1.166	1.64	2.2	2.52
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/07/80-12/18/85	7	0.41	0.443	0.68	0.33	0.015	0.122	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	69	0.033	0.036	0.104	0.008	0.	0.019	0.015	0.021	0.047	0.062
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	61	0.012	0.017	0.176	0.004	0.	0.022	0.009	0.01	0.017	0.023
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/18/85	7	0.009	0.009	0.012	0.006	0.	0.002	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	60	1.585	1.597	2.39	0.84	0.107	0.328	1.241	1.39	1.78	2.086
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/18/85	7	1.	1.031	1.56	0.79	0.072	0.268	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	67	0.4	0.432	1.2	0.07	0.046	0.214	0.196	0.304	0.5	0.735
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	61	1.6	1.607	2.4	0.85	0.109	0.331	1.26	1.4	1.8	2.1

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

Parameter Inventory for Station: HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	69	0.03	0.032	0.1	0.01	0.	0.018	0.01	0.02	0.04	0.06
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	65	0.053	0.056	0.173	0.01	0.001	0.028	0.022	0.038	0.065	0.088
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	62	3.8	3.876	8.	2.1	1.348	1.161	2.3	2.8	4.6	5.41
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/09/80-10/27/83	11	0.15	0.117	0.2	-0.05	0.005	0.07	0.08	0.09	0.19	0.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	62	330.	2781.613	54000.	0.	62537462.274	7908.063	13.	76.75	1400.	10570.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	62	2.519	2.47	4.732	0.	1.162	1.078	1.114	1.884	3.143	3.987
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			295.427								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	04/07/80-12/18/85	3	93.	95.333	150.	43.	2866.333	53.538	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	04/07/80-12/18/85	3	1.968	1.926	2.176	1.633	0.075	0.274	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			84.336								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	54	79.	504.056	11000.	2.	2692453.223	1640.87	5.	22.5	242.5	945.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	54	1.898	1.866	4.041	0.301	0.697	0.835	0.699	1.352	2.383	2.97
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			73.449								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	62	1.295	2.733	24.32	0.32	18.002	4.243	0.485	0.805	2.373	7.394
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	58	0.97	2.253	20.78	0.2	15.061	3.881	0.363	0.7	1.81	5.072
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	62	0.03	0.143	1.35	0.	0.074	0.272	0.	0.	0.138	0.468
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	62	0.11	0.214	3.01	0.	0.192	0.438	0.	0.01	0.178	0.535
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	58	0.485	0.739	4.55	0.	0.823	0.907	0.	0.1	0.873	2.173
34670	PCB - 1260 WET WGTTISMG/KG	10/09/80-10/27/83	11	0.066	0.069	0.159	0.027	0.002	0.041	0.028	0.035	0.099	0.149
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
34685	ENDRIN WET WGTTISMG/KG	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/09/80-10/27/83	11	-0.001	90.91	1000.	-0.001	90908.982	301.511	0.004	-0.001	-0.001	800.
34687	HEPTACHLOR WET WGTTISMG/KG	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/09/80-10/27/83	11	-0.001	90.909	1000.	-0.001	90909.182	301.511	-0.001	-0.001	-0.001	800.
34691	TOXAPHENE WET WGTTISMG/KG	10/09/80-10/27/83	11	-0.01	-0.01	-0.01	-0.01	0.	0.	-0.01	-0.01	-0.01	-0.01
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	10/09/80-10/27/83	11	-0.001	90.909	1000.	-0.001	90909.182	301.511	-0.001	-0.001	-0.001	800.
39105	PERCENT FAT HEXANE EXTRACTION	10/27/82-10/27/83	5	4.8	4.44	5.6	2.7	1.583	1.258	**	**	**	**
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/09/80-10/27/83	11	-0.001	0.001	0.01	-0.001	0.	0.003	0.004	-0.001	-0.001	-0.001
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/09/80-10/27/83	11	0.04	0.041	0.13	0.005	0.002	0.041	0.005	0.006	0.05	0.124
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/09/80-10/27/83	11	0.01	90.911	1000.	-0.001	90908.727	301.511	0.001	0.002	-0.001	800.
39497	PCB - 1242 IN FISH OR ANIMALS WET WGT UG/KG	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/09/80-10/27/83	11	0.1	0.112	0.29	0.03	0.006	0.074	0.032	0.04	0.16	0.266
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	11	2.2	1.453	2.9	-0.5	1.279	1.131	0.852	1.5	2.9	-0.5
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	11	0.54	0.559	0.95	0.04	0.053	0.231	0.114	0.46	0.7	0.9
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	11	13.5	20.346	84.1	9.81	455.76	21.349	10.068	11.2	17.5	71.22
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/09/80-10/27/83	11	-0.1	0.291	1.9	-0.5	0.729	0.854	0.7	1.5	-0.5	-0.5
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/09/80-10/27/83	11	0.23	0.325	0.74	0.12	0.043	0.208	0.13	0.18	0.43	0.722
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001
81826	BHC(BENZENE HEXACHLORIDE) FISH TISS WET WGT MG/KG	10/09/80-10/27/83	11	-0.001	181.819	1000.	-0.001	163636.091	404.52	0.005	-0.001	-0.001	1000.
81896	DDE TOTAL IN TISSUE WET WEIGHT MG/KG	10/09/80-10/27/83	11	0.034	0.026	0.134	-0.048	0.002	0.044	0.005	0.01	0.042	-0.012
81897	DDD TOTAL IN TISSUE WET WEIGHT MG/KG	10/09/80-10/27/83	11	0.02	0.01	0.031	-0.001	0.	0.012	0.001	0.007	-0.001	-0.001
82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/09/80-10/27/83	11	-0.001	-0.001	-0.001	-0.001	0.	0.	-0.001	-0.001	-0.001	-0.001

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

EPA Water Quality Criteria Analysis for Station: HAFE0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	60	1	0.02	15	0	0.00	24	1	0.04	21	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	69	0	0.00	17	0	0.00	26	0	0.00	26	0	0.00			
00400	PH	Other-Hi Lim.	9.	68	0	0.00	17	0	0.00	25	0	0.00	26	0	0.00			
		Other-Lo Lim.	6.5	68	0	0.00	17	0	0.00	25	0	0.00	26	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	61	0	0.00	15	0	0.00	25	0	0.00	21	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	7	0	0.00	2	0	0.00	1	0	0.00	4	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	60	0	0.00	15	0	0.00	25	0	0.00	20	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: HAFE0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	2	0	0.00	1	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	61	0	0.00	15	0	0.00	25	0	0.00	21	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	62	18	0.29	17	2	0.12	20	11	0.55	25	5	0.20			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00				1	0	0.00	2	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	54	14	0.26	15	3	0.20	19	7	0.37	20	4	0.20			

& - 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 1980 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	8	16.5	16.063	24.	4.5	40.603	6.372	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	8	240.	240.5	334.	158.	4576.	67.646	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	8	9.95	10.013	14.	7.1	5.661	2.379	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	7	7.9	7.729	8.9	6.9	0.479	0.692	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	7	7.9	7.369	8.9	6.9	0.63	0.794	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	7	0.013	0.043	0.126	0.001	0.002	0.05	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	7	70.	73.	126.	48.	708.	26.608	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	7	1.01	1.041	1.57	0.8	0.072	0.268	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	7	0.04	0.039	0.07	0.02	0.	0.02	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	6	0.46	0.503	0.72	0.37	0.017	0.13	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	7	0.02	0.023	0.04	0.01	0.	0.013	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	7	0.06	0.057	0.08	0.04	0.	0.018	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	8	0.	628.75	2300.	0.	1086041.071	1042.133	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	8	0.	1.17	3.362	0.	2.656	1.63	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			14.778								

** - Less 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 HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	14	15.9	16.279	27.9	5.4	82.074	9.059	5.5	7.6	26.425	27.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	14	14.75	16.929	29.	4.5	75.533	8.691	4.75	10.5	25.	28.5
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	11	95.	66.818	100.	0.	1651.364	40.637	2.	20.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	13	5.7	18.708	160.	1.8	1820.722	42.67	2.44	3.8	10.8	103.12
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	14	372.	374.643	584.	160.	16571.016	128.728	191.	260.75	463.	575.
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	13	9.6	9.385	12.3	6.3	4.746	2.179	6.3	6.85	11.35	12.06
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	13	1.3	1.485	3.3	0.5	0.813	0.902	0.5	0.65	2.2	2.9
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	14	7.85	7.907	8.5	7.5	0.065	0.256	7.55	7.8	8.05	8.35
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	14	7.847	7.846	8.5	7.5	0.069	0.263	7.55	7.8	8.05	8.35
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	14	0.014	0.014	0.032	0.003	0.	0.007	0.005	0.009	0.016	0.028
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	12	90.5	90.75	146.	32.	1348.75	36.725	36.8	62.25	119.75	144.8
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	14	5.	12.571	84.	1.	455.802	21.35	1.	3.	13.	53.
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	14	2.	2.198	3.1	1.57	0.225	0.474	1.635	1.9	2.588	3.025
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	14	0.04	0.049	0.104	0.02	0.001	0.026	0.02	0.034	0.066	0.094
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	13	0.014	0.015	0.035	0.005	0.	0.008	0.005	0.01	0.02	0.031
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	13	1.49	1.641	2.39	1.18	0.158	0.398	1.22	1.335	1.995	2.342
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	14	0.5	0.569	1.2	0.07	0.089	0.298	0.185	0.4	0.75	1.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	14	1.5	1.629	2.4	1.2	0.155	0.393	1.25	1.3	1.95	2.35
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	14	0.035	0.036	0.08	0.01	0.001	0.023	0.01	0.018	0.053	0.075
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	13	0.064	0.076	0.173	0.022	0.002	0.045	0.025	0.04	0.115	0.156
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	14	4.35	4.664	8.	2.7	1.907	1.381	3.15	3.6	5.525	7.2
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	11	490.	3892.727	22000.	49.	50268986.418	7090.063	49.	62.	3300.	20200.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	11	2.69	2.851	4.342	1.69	0.85	0.922	1.69	1.792	3.519	4.297
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			709.607								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	79.	1222.636	11000.	2.	10607896.055	3256.977	3.8	17.	790.	8958.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	1.898	2.031	4.041	0.301	1.13	1.063	0.449	1.23	2.898	3.813
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			107.467								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	14	1.275	3.161	19.77	0.55	26.195	5.118	0.59	1.003	2.685	13.765
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.16	2.707	19.44	0.6	27.951	5.287	0.645	0.84	1.778	14.169
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	14	0.095	0.151	0.85	0.	0.052	0.228	0.	0.	0.168	0.605
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	14	0.1	0.214	1.51	0.	0.158	0.397	0.	0.	0.193	1.005
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	0.1	0.4	1.69	0.	0.328	0.573	0.	0.	0.783	1.555

** - Less 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 HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	12	14.	14.067	27.2	1.5	66.848	8.176	2.52	6.85	21.825	26.12
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	12	14.	14.542	28.	5.	60.066	7.75	5.	6.625	21.75	26.5
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	12	60.	54.167	100.	0.	1626.515	40.33	0.	5.	95.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	12	5.05	5.533	9.7	1.7	5.395	2.323	2.3	4.	7.875	9.34
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	12	333.5	346.75	491.	239.	5162.023	71.847	250.4	288.5	404.	472.7
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	12	9.3	9.508	13.6	6.1	4.044	2.011	6.52	8.	10.9	13.
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	11	1.4	1.955	6.4	0.5	3.421	1.85	0.5	0.6	3.6	5.84
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	12	7.95	8.042	8.7	7.7	0.088	0.297	7.7	7.825	8.2	8.61
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	12	7.947	7.965	8.7	7.7	0.095	0.307	7.7	7.825	8.2	8.61
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	12	0.011	0.011	0.02	0.002	0.	0.006	0.003	0.006	0.015	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	12	82.	83.333	153.	37.	1054.606	32.475	37.	62.5	104.75	139.8
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	8.5	10.5	33.	3.	64.273	8.017	3.3	5.	12.	27.6
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	11	2.05	2.059	2.6	1.6	0.059	0.243	1.66	1.95	2.2	2.52
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	12	0.04	0.041	0.064	0.016	0.	0.017	0.017	0.028	0.058	0.064
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.013	0.015	0.024	0.009	0.	0.005	0.009	0.011	0.02	0.023
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	1.635	1.67	2.29	1.39	0.053	0.23	1.417	1.513	1.765	2.14
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	11	0.4	0.386	0.6	0.1	0.019	0.136	0.14	0.3	0.5	0.59
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	12	1.65	1.683	2.3	1.4	0.052	0.229	1.43	1.525	1.775	2.15
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	12	0.025	0.028	0.05	0.01	0.	0.017	0.01	0.01	0.048	0.05
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	10	0.057	0.054	0.072	0.041	0.	0.01	0.041	0.044	0.061	0.071
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	3.3	3.467	4.9	2.3	0.63	0.794	2.45	2.8	4.025	4.81
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	10	150.	234.4	490.	46.	37913.822	194.715	46.3	64.75	490.	490.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	10	2.172	2.203	2.69	1.663	0.177	0.421	1.666	1.806	2.69	2.69
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			159.558								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	10	46.5	85.	490.	5.	21363.333	146.162	5.	6.5	79.	448.9
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	10	1.603	1.495	2.69	0.699	0.432	0.657	0.699	0.809	1.898	2.611
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			31.238								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	1.285	1.243	2.3	0.32	0.445	0.667	0.341	0.627	1.758	2.249
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	11	0.8	0.9	1.89	0.22	0.26	0.51	0.22	0.52	1.3	1.782
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.	0.073	0.48	0.	0.025	0.157	0.	0.	0.045	0.432
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.015	0.143	0.72	0.	0.064	0.252	0.	0.	0.135	0.69
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	11	0.72	0.652	2.14	0.1	0.331	0.576	0.104	0.25	0.84	1.888

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

Annual Analysis for 1993 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	12	12.55	14.108	27.9	2.7	87.172	9.337	3.09	4.95	22.1	27.87
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	10	15.	16.6	30.	4.	111.656	10.567	4.	5.875	28.	29.8
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	12	55.	52.5	100.	0.	1902.273	43.615	0.	6.25	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	11	5.4	9.318	45.	2.2	161.3	12.7	2.22	2.3	6.4	39.76
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	12	365.	349.417	453.	207.	9113.356	95.464	211.5	269.	442.	451.8
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	12	10.15	10.625	14.8	7.4	5.726	2.393	7.58	8.8	12.975	14.38
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	12	1.5	1.708	4.7	0.5	1.179	1.086	0.62	1.025	1.85	4.07
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	12	8.05	8.1	8.6	7.6	0.095	0.307	7.66	7.825	8.375	8.57
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	12	8.047	8.006	8.6	7.6	0.104	0.323	7.66	7.825	8.375	8.57
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	12	0.009	0.01	0.025	0.003	0.	0.007	0.003	0.004	0.015	0.022
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	11	112.	93.818	127.	49.	825.564	28.733	50.4	66.	116.	126.
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	8.	12.333	43.	1.	156.606	12.514	1.6	4.25	18.25	38.8
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	12	2.185	2.285	3.04	1.9	0.113	0.337	1.903	2.023	2.5	2.908
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	12	0.027	0.029	0.062	0.015	0.	0.012	0.016	0.021	0.034	0.054
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.013	0.014	0.021	0.009	0.	0.004	0.009	0.01	0.017	0.02
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	1.755	1.792	2.19	1.49	0.041	0.203	1.52	1.69	1.94	2.16
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	12	0.422	0.48	0.83	0.2	0.038	0.195	0.233	0.355	0.65	0.82

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

Annual Analysis for 1993 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	12	1.775	1.805	2.21	1.5	0.042	0.205	1.53	1.7	1.95	2.177
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	12	0.035	0.032	0.05	0.01	0.	0.013	0.013	0.02	0.04	0.05
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	11	0.053	0.052	0.1	0.016	0.001	0.026	0.018	0.031	0.065	0.097
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	4.	3.708	5.	2.1	1.226	1.107	2.16	2.375	4.675	4.97
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	11	790.	6787.	54000.	27.	259368537.	16104.923	43.6	220.	3300.	45800.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	11	2.898	2.933	4.732	1.431	0.885	0.941	1.553	2.342	3.519	4.609
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			856.08								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	110.	723.455	4900.	21.	2154097.273	1467.684	26.6	70.	490.	4260.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	2.041	2.267	3.69	1.322	0.495	0.703	1.396	1.845	2.69	3.598
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			184.945								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	1.03	3.993	24.32	0.42	45.404	6.738	0.423	0.513	4.78	18.986
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	0.935	3.348	20.78	0.2	33.127	5.756	0.203	0.403	4.393	16.004
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.015	0.07	0.51	0.	0.021	0.144	0.	0.003	0.068	0.396
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.13	0.445	3.01	0.	0.685	0.828	0.009	0.075	0.455	2.272
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	0.36	0.883	4.55	0.	1.858	1.363	0.	0.	1.215	3.926

** - Less 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 HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	12	14.8	14.467	29.4	0.2	85.999	9.274	0.65	6.625	23.575	27.99
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	12	15.25	14.833	33.5	-1.5	126.061	11.228	-0.3	1.875	21.75	31.85
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	12	95.	70.	100.	0.	1690.909	41.121	0.	27.5	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	12	4.9	9.583	31.	2.	87.972	9.379	2.48	3.85	16.225	28.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	12	318.	331.917	498.	228.	8240.629	90.778	230.7	247.75	411.	480.6
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	12	9.55	10.208	14.8	7.4	6.041	2.458	7.46	7.925	12.15	14.56
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	12	2.	1.9	4.8	0.5	1.715	1.309	0.5	0.6	2.75	4.35
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	11	8.	8.005	8.5	7.6	0.074	0.272	7.6	7.8	8.2	8.46
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	11	8.	7.929	8.5	7.6	0.08	0.284	7.6	7.8	8.2	8.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	11	0.01	0.012	0.025	0.003	0.	0.007	0.004	0.006	0.016	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	12	92.	93.167	140.	44.	882.152	29.701	50.6	67.5	119.25	134.9
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	6.	12.083	40.	3.	181.356	13.467	3.	4.	16.	39.7
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	11	1.86	1.909	2.41	1.59	0.083	0.288	1.6	1.65	2.11	2.404
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	12	0.024	0.027	0.051	0.012	0.	0.013	0.013	0.016	0.035	0.05
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.012	0.027	0.176	0.004	0.002	0.047	0.006	0.01	0.017	0.132
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	11	1.49	1.555	1.98	1.25	0.055	0.234	1.274	1.39	1.68	1.968
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	12	0.344	0.316	0.48	0.1	0.017	0.129	0.117	0.197	0.442	0.475
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	11	1.5	1.582	2.1	1.26	0.071	0.267	1.284	1.4	1.69	2.08
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	12	0.03	0.03	0.06	0.02	0.	0.012	0.02	0.02	0.038	0.054
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	12	0.046	0.046	0.092	0.01	0.	0.022	0.013	0.033	0.062	0.084
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	3.9	3.483	4.6	2.1	1.1	1.049	2.13	2.25	4.475	4.6
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	11	350.	3476.364	17000.	130.	35106845.455	5925.103	160.	330.	4900.	16200.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	11	2.544	2.948	4.23	2.114	0.529	0.728	2.181	2.519	3.69	4.207
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			886.95								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	110.	397.182	2200.	8.	454090.764	673.863	13.	49.	330.	1980.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	2.041	2.117	3.342	0.903	0.477	0.691	1.026	1.69	2.519	3.282
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			130.913								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	1.95	3.813	10.62	0.52	14.559	3.816	0.631	0.945	7.793	10.419
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	1.46	3.119	9.87	0.45	10.674	3.267	0.495	0.855	5.983	9.285
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.12	0.349	1.35	0.	0.234	0.484	0.	0.	0.8	1.26
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.135	0.208	0.62	0.02	0.035	0.188	0.032	0.073	0.378	0.569
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	12	0.74	0.989	3.05	0.	1.084	1.041	0.021	0.165	1.448	3.023

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

Annual Analysis for 1995 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	12	12.35	13.567	29.3	1.2	91.486	9.565	1.62	4.7	22.425	27.44
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	12	7.	12.583	32.	-1.5	108.72	10.427	2.	6.125	20.125	30.2
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	11	70.	54.091	100.	0.	1984.091	44.543	0.	0.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	12	5.05	5.883	20.	2.1	23.711	4.869	2.13	2.65	6.8	16.58
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	12	316.	332.167	466.	204.	6784.515	82.368	219.6	274.25	409.5	463.9
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	12	9.55	9.892	13.7	6.8	5.77	2.402	6.92	7.875	12.475	13.49
00310	BOD, 5 DAY, 20 DEG C MG/L	02/06/91-12/06/95	12	2.	2.042	2.4	2.	0.014	0.116	2.	2.	2.	2.31
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	12	7.7	7.683	8.	7.2	0.054	0.233	7.23	7.625	7.875	7.97
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	12	7.7	7.618	8.	7.2	0.059	0.243	7.23	7.625	7.875	7.97
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	12	0.02	0.024	0.063	0.01	0.	0.016	0.011	0.013	0.024	0.059
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	12	85.	88.	125.	56.	399.091	19.977	60.5	71.75	106.5	121.1
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	12	9.	9.917	25.	2.	52.083	7.217	2.3	3.25	14.25	23.5
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	12	1.64	1.676	2.4	1.17	0.128	0.358	1.212	1.385	1.845	2.346
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	12	0.028	0.03	0.053	0.008	0.	0.016	0.009	0.015	0.046	0.052
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	0.012	0.013	0.027	0.005	0.	0.006	0.005	0.01	0.017	0.025
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	12	1.305	1.318	2.05	0.84	0.123	0.351	0.843	1.065	1.465	1.963
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	12	0.322	0.346	0.808	0.117	0.036	0.191	0.142	0.218	0.429	0.739
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	12	1.32	1.33	2.05	0.85	0.121	0.348	0.853	1.075	1.473	1.966
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	12	0.03	0.041	0.1	0.02	0.001	0.024	0.02	0.023	0.055	0.091
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	12	0.049	0.046	0.081	0.017	0.	0.021	0.018	0.023	0.063	0.077
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	12	3.65	3.925	5.8	2.6	1.093	1.045	2.66	3.2	4.65	5.77
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	11	330.	851.727	4900.	13.	2110329.418	1452.697	13.	33.	1300.	4260.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	11	2.519	2.34	3.69	1.114	0.718	0.848	1.114	1.519	3.114	3.598
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			218.598								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	49.	53.909	170.	2.	2680.491	51.773	2.	2.	79.	158.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/21/91-12/06/95	11	1.69	1.386	2.23	0.301	0.535	0.732	0.301	0.301	1.898	2.193
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			24.332								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	1.22	1.387	3.85	0.43	0.827	0.909	0.499	0.795	1.56	3.358
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	11	0.85	0.972	2.2	0.3	0.255	0.505	0.36	0.66	1.2	2.04
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.055	0.069	0.23	0.	0.006	0.08	0.	0.	0.145	0.212
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	01/21/91-12/06/95	12	0.03	0.06	0.2	0.	0.005	0.071	0.	0.003	0.123	0.191
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	11	0.57	0.767	2.6	0.1	0.515	0.718	0.11	0.22	1.09	2.332

** - Less 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 10/31 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	17	21.	21.082	29.3	13.7	20.463	4.524	14.5	17.45	24.15	28.18
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	14	20.5	20.393	32.	13.	32.891	5.735	13.	16.	23.5	30.
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	14	50.	53.571	100.	0.	1820.879	42.672	0.	7.5	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	15	3.8	3.913	8.1	1.7	3.097	1.76	1.94	2.3	5.	7.14
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	17	440.	413.176	566.	279.	4837.654	69.553	316.6	352.	451.	486.
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	17	7.8	8.512	14.	6.3	3.351	1.831	6.7	7.55	9.55	11.44
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	17	7.9	8.035	8.9	7.5	0.122	0.35	7.66	7.8	8.25	8.58
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	17	7.9	7.932	8.9	7.5	0.134	0.366	7.66	7.8	8.25	8.58
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	17	0.013	0.012	0.032	0.001	0.	0.007	0.003	0.006	0.016	0.022
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	17	110.	109.529	142.	70.	289.14	17.004	74.8	106.5	118.	130.
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	15	5.	7.2	29.	3.	44.314	6.657	3.	3.	8.	18.8
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	17	1.9	1.825	2.95	0.8	0.251	0.501	0.808	1.665	2.1	2.382
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	17	0.027	0.036	0.104	0.015	0.001	0.024	0.016	0.02	0.046	0.077
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	15	0.012	0.016	0.035	0.009	0.	0.008	0.009	0.01	0.019	0.03
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	15	1.49	1.531	2.27	1.05	0.079	0.282	1.17	1.36	1.68	1.982
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	17	0.41	0.43	0.808	0.1	0.03	0.173	0.1	0.37	0.52	0.682
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	15	1.5	1.546	2.3	1.06	0.081	0.285	1.18	1.37	1.69	2.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	17	0.04	0.039	0.08	0.01	0.	0.017	0.018	0.03	0.045	0.072
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	17	0.058	0.063	0.122	0.031	0.001	0.024	0.037	0.048	0.072	0.11
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	15	4.3	4.427	6.4	3.1	0.879	0.938	3.34	3.7	4.7	6.04
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	17	170.	546.529	4900.	0.	1418741.89	1191.11	0.	39.5	395.	2340.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	17	2.23	2.03	3.69	0.	0.966	0.983	0.	1.591	2.591	3.322
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			107.233								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	14	0.83	1.329	6.98	0.2	3.115	1.765	0.21	0.28	1.838	4.59
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	14	0.695	0.901	3.05	0.25	0.711	0.843	0.265	0.398	0.828	2.825

** - Less 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: 11/01 to 3/20 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	26	5.5	5.808	14.9	0.2	11.428	3.381	1.41	3.675	8.1	10.22
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	24	6.75	7.021	28.	-1.5	42.51	6.52	3.	5.	10.375	16.
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	23	100.	72.391	100.	0.	1497.431	38.697	0.	50.	100.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	24	6.45	16.746	160.	2.	1035.008	32.172	3.	4.35	16.325	38.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	26	297.5	313.962	584.	158.	10768.598	103.772	192.9	238.5	362.75	493.1
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	26	12.	11.923	14.8	9.	2.625	1.62	9.6	10.625	13.325	14.24
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	25	7.9	7.924	8.7	6.9	0.159	0.399	7.44	7.7	8.2	8.48
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	25	7.9	7.724	8.7	6.9	0.201	0.448	7.44	7.7	8.2	8.48
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	25	0.013	0.019	0.126	0.002	0.001	0.025	0.003	0.006	0.02	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	25	71.	78.16	153.	32.	1121.807	33.493	37.	54.	85.	142.4
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	25	8.	14.4	84.	1.	351.667	18.753	2.6	3.5	15.	41.2
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	26	2.075	2.125	3.1	1.49	0.172	0.414	1.584	1.84	2.433	2.675
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	26	0.033	0.035	0.064	0.01	0.	0.016	0.015	0.023	0.049	0.061
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	25	0.012	0.018	0.176	0.005	0.001	0.033	0.005	0.01	0.015	0.02
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	25	1.69	1.716	2.39	1.18	0.097	0.312	1.334	1.46	1.95	2.176
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	26	0.363	0.416	1.2	0.117	0.061	0.248	0.195	0.243	0.493	0.858
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	25	1.7	1.733	2.4	1.2	0.1	0.317	1.348	1.465	2.	2.18
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	26	0.03	0.03	0.06	0.01	0.	0.014	0.01	0.02	0.04	0.05
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	24	0.046	0.053	0.173	0.016	0.001	0.034	0.019	0.032	0.066	0.096
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	25	3.6	3.724	8.	2.1	1.829	1.352	2.16	2.75	4.45	5.24
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	20	1300.	6347.45	54000.	70.	163744868.997	12796.283	84.1	292.5	4500.	21500.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	20	3.114	3.115	4.732	1.845	0.691	0.831	1.919	2.465	3.647	4.331
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			1304.259								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	23	0.9	1.821	19.44	0.21	15.423	3.927	0.47	0.6	1.2	3.53

** - Less 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: 11/01 to 3/20 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	23	0.31	0.507	2.14	0.	0.351	0.593	0.	0.	0.77	1.536

** - Less 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: 3/21 to 7/31 - Station HAFE0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/80-12/06/95	27	19.2	19.315	29.4	8.	43.694	6.61	10.2	13.	25.2	27.82
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/29/86-12/06/95	22	22.5	20.568	33.5	2.	64.674	8.042	10.95	13.375	28.	29.7
00032	CLOUD COVER (PERCENT)	01/29/86-12/06/95	21	50.	49.286	100.	0.	1690.714	41.118	0.	5.	90.	100.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/29/86-12/06/95	21	5.4	6.529	20.	1.8	21.787	4.668	2.44	3.8	6.9	16.98
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/07/80-12/06/95	27	283.	307.593	469.	161.	7125.481	84.413	201.6	242.	396.	432.2
00300	OXYGEN, DISSOLVED MG/L	04/07/80-12/06/95	26	8.95	8.854	11.7	6.1	2.398	1.548	6.51	7.4	9.675	11.18
00400	PH (STANDARD UNITS)	04/07/80-12/06/95	26	7.9	7.848	8.5	7.	0.1	0.316	7.37	7.7	8.	8.23
00400	CONVERTED PH (STANDARD UNITS)	04/07/80-12/06/95	26	7.9	7.72	8.5	7.	0.117	0.342	7.37	7.7	8.	8.23
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/80-12/06/95	26	0.013	0.019	0.1	0.003	0.	0.02	0.006	0.01	0.02	0.043
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/07/80-12/06/95	24	77.5	82.917	123.	48.	573.21	23.942	53.	62.25	99.5	122.
00480	SALINITY - PARTS PER THOUSAND	01/29/86-12/06/95	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/29/86-12/06/95	22	9.5	11.182	33.	1.	68.727	8.29	1.9	5.	14.75	24.1
00600	NITROGEN, TOTAL (MG/L AS N)	04/07/80-12/06/95	24	1.9	1.79	3.04	0.88	0.282	0.531	1.04	1.32	2.153	2.455
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/07/80-12/06/95	26	0.035	0.037	0.084	0.008	0.	0.02	0.013	0.021	0.048	0.067
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	21	0.015	0.015	0.028	0.004	0.	0.006	0.007	0.012	0.02	0.021
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/29/86-12/06/95	20	1.535	1.497	2.19	0.84	0.119	0.345	0.876	1.303	1.688	2.06
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/07/80-12/06/95	24	0.41	0.45	0.9	0.07	0.043	0.208	0.195	0.306	0.575	0.775
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/86-12/06/95	21	1.5	1.5	2.21	0.85	0.116	0.341	0.912	1.3	1.7	2.04
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/07/80-12/06/95	26	0.02	0.03	0.1	0.01	0.	0.022	0.01	0.02	0.043	0.063
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/07/80-12/06/95	24	0.058	0.053	0.131	0.01	0.001	0.026	0.021	0.038	0.064	0.083
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/29/86-12/06/95	22	3.7	3.673	5.5	2.2	0.954	0.976	2.3	2.75	4.525	5.05
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	04/07/80-12/06/95	25	330.	1448.8	13000.	0.	12387250.333	3519.553	0.	49.	640.	6580.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	04/07/80-12/06/95	25	2.519	2.254	4.114	0.	1.231	1.11	0.	1.69	2.794	3.663
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			179.392								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	21	1.4	3.342	20.78	0.7	21.876	4.677	0.766	1.085	3.775	9.48
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/29/86-12/06/95	21	0.35	0.886	4.55	0.	1.394	1.181	0.	0.085	1.25	2.862

** - Less 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: HAFE0079

NPS Station ID: HAFE0079
LAT/LON: 39.436115/ -77.801393
Agency: 1113PPWQ
Date Created: / /
Location: POTOMAC R. RTE 34 BR SHEPHRDSTWN
FIPS State/County: 24000 MARYLAND/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POTOMAC 095 /095 /POTO-MP4
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004009
RF1 Mile Point: 3.800
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004001007.46
RF3 Mile Point: 7.46
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/18/69-08/18/69	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/28/69-08/18/69	2	2.75	2.75	3.5	2.	1.125	1.061	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/28/69-08/18/69	2	7.8	7.8	8.1	7.5	0.18	0.424	**	**	**	**
00311	BOD, DISSOLVED, 5 DAY MG/L	07/28/69-08/18/69	2	4.35	4.35	5.5	3.2	2.645	1.626	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/28/69-08/18/69	2	0.059	0.059	0.076	0.042	0.001	0.024	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/69-08/18/69	1	0.775	0.775	0.775	0.775	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/28/69-08/18/69	2	0.42	0.42	0.43	0.41	0.	0.014	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/28/69-08/18/69	2	2940.	2940.	3480.	2400.	583200.	763.675	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/28/69-08/18/69	2	3.461	3.461	3.542	3.38	0.013	0.114	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			2889.983								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/28/69-08/18/69	2	300.	300.	490.	110.	72200.	268.701	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/28/69-08/18/69	2	2.366	2.366	2.69	2.041	0.21	0.459	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			232.164								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/28/69-08/18/69	2	27.75	27.75	33.	22.5	55.125	7.425	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/28/69-08/18/69	2	0.2	0.2	0.24	0.16	0.003	0.057	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0079

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00				1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	2	2	1.00	1	1	1.00				1	1	1.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	1	0.50	1	1	1.00				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: HAFE0080

NPS Station ID: HAFE0080
LAT/LON: 39.434448/ -77.801949
Agency: 112WRD
Date Created: / /
Location: POTOMAC R AT SHEPHERDSTOWN, WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01618000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 16.90
On/Off RF1:
RF3 Index: 02070004051800.00
RF3 Mile Point: 6.01
Distance from RF3: 0.36
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	186	13.5	14.22	28.5	0.	73.085	8.549	3.	7.	22.125	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	181	17.	15.917	34.	-7.	86.758	9.314	7.	10.	23.7	27.
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-09/13/93	63	759.	759.238	774.	747.	38.378	6.195	751.4	754.	764.	768.2
00060	FLOW, STREAM, MEAN DAILY CFS	09/28/60-10/22/64	3	2280.	12806.667	35100.	1040.	373128933.333	19316.546	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	182	3285.	7894.758	145000.	650.	192010306.803	13856.778	1051.1	1638.25	9217.5	20160.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	146	2.86	4.192	27.5	1.	11.627	3.41	1.877	2.2	5.118	8.211
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	96	2.7	42.51	3500.	0.2	127282.066	356.766	0.87	1.5	5.225	18.
00080	COLOR (PLATINUM-COBALT UNITS)	09/28/60-04/18/61	4	23.5	23.5	40.	7.	363.	19.053	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/13/93	107	290.	303.271	524.	116.	8483.294	92.105	179.4	232.	371.	434.4
00300	OXYGEN, DISSOLVED MG/L	09/28/60-09/13/93	96	10.1	10.603	19.6	6.3	6.479	2.545	7.5	8.6	12.8	14.23
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/28/60-04/18/61	2	83.	83.	90.	76.	98.	9.899	**	**	**	**
00400	PH (STANDARD UNITS)	09/28/60-07/19/93	105	7.8	7.734	8.6	6.81	0.165	0.406	7.106	7.45	8.01	8.2
00400	CONVERTED PH (STANDARD UNITS)	09/28/60-07/19/93	105	7.8	7.537	8.6	6.81	0.204	0.452	7.106	7.45	8.01	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-07/19/93	105	0.016	0.029	0.155	0.003	0.001	0.031	0.006	0.01	0.036	0.078
00403	PH, LAB, STANDARD UNITS SU	01/19/81-09/13/93	72	7.9	7.901	8.5	7.2	0.078	0.279	7.5	7.7	8.1	8.27
00403	CONVERTED PH, LAB, STANDARD UNITS	01/19/81-09/13/93	72	7.9	7.807	8.5	7.2	0.087	0.294	7.5	7.7	8.1	8.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/19/81-09/13/93	72	0.013	0.016	0.063	0.003	0.	0.012	0.005	0.008	0.02	0.032
00405	CARBON DIOXIDE (MG/L AS CO2)	06/04/79-09/05/79	4	1.1	1.15	1.5	0.9	0.07	0.265	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-03/18/91	68	69.5	65.074	130.	0.	1128.726	33.597	0.	45.	92.25	103.1
00440	BICARBONATE ION (MG/L AS HCO3)	09/28/60-03/05/90	12	103.5	82.417	140.	0.	2612.083	51.109	0.	37.	123.5	139.4
00445	CARBONATE ION (MG/L AS CO3)	09/28/60-04/18/61	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	03/05/87-11/09/87	5	74.	82.4	140.	0.	3102.8	55.703	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/90-01/29/92	8	66.5	63.	119.	0.	1913.714	43.746	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/09/87-07/19/93	20	98.	106.3	198.	48.	1565.8	39.57	57.3	77.25	142.	149.9
00600	NITROGEN, TOTAL (MG/L AS N)	03/29/79-07/20/81	26	1.4	1.526	5.6	0.8	0.775	0.881	0.991	1.1	1.6	1.83
00602	NITROGEN, DISSOLVED (MG/L AS N)	09/05/79-11/06/85	15	1.3	1.577	5.8	0.87	1.431	1.196	0.936	1.1	1.5	3.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/29/79-01/07/86	26	0.31	0.393	0.92	0.	0.056	0.237	0.173	0.235	0.55	0.802
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/24/79-05/20/81	13	0.2	0.256	1.2	0.	0.091	0.301	0.024	0.115	0.275	0.872
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-09/13/93	83	0.04	0.069	2.	0.	0.047	0.218	0.005	0.02	0.06	0.076
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/79-08/31/92	66	0.04	0.087	2.1	0.005	0.074	0.272	0.01	0.02	0.06	0.083
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-09/13/93	44	0.01	0.011	0.02	0.005	0.	0.006	0.005	0.005	0.02	0.02
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/22/90-08/31/92	11	0.01	0.011	0.02	0.005	0.	0.006	0.005	0.005	0.02	0.02
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/07/86-09/04/90	2	1.645	1.645	1.69	1.6	0.004	0.064	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/29/79-11/06/85	27	0.26	0.387	3.2	0.01	0.363	0.602	0.05	0.19	0.31	0.918
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	03/29/79-11/06/85	24	0.135	0.304	3.2	0.	0.42	0.648	0.	0.01	0.303	0.665
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/29/79-09/13/93	93	0.44	0.55	4.1	0.02	0.268	0.518	0.2	0.3	0.645	0.876
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/29/79-08/31/92	37	1.	1.119	2.6	0.53	0.169	0.411	0.656	0.82	1.4	1.6
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-09/13/93	84	1.2	1.225	2.6	0.5	0.136	0.369	0.8	1.	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 time series plot

Parameter Inventory for Station: HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/09/65-06/12/79	6	0.12	0.142	0.28	0.06	0.008	0.087	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/02/81-11/30/82	7	0.09	0.12	0.21	0.06	0.003	0.055	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/29/79-09/13/93	94	0.05	0.1	3.3	0.01	0.126	0.355	0.03	0.03	0.07	0.09
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-09/13/93	94	0.03	0.039	0.85	0.005	0.008	0.087	0.008	0.02	0.04	0.06
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-09/13/93	67	0.02	0.027	0.07	0.005	0.	0.018	0.005	0.01	0.04	0.052
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/25/79-03/17/81	15	3.2	3.96	7.	1.5	3.715	1.928	1.74	2.2	5.5	7.
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/29/79-07/20/81	10	2.65	3.48	7.7	2.	3.271	1.808	2.01	2.175	4.75	7.42
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	03/29/79-05/20/81	8	0.65	0.738	1.9	0.1	0.297	0.545	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/28/60-04/18/61	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/07/86	44	115.	114.409	200.	49.	1573.55	39.668	64.5	75.25	150.	165.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/07/86	33	39.	41.909	78.	17.	275.21	16.589	20.	30.5	49.	71.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/13/93	102	36.	38.49	80.	14.	177.322	13.316	21.	27.75	48.25	56.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/13/93	102	7.	7.377	13.	2.6	5.844	2.417	4.2	5.3	9.05	11.
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/13/93	100	7.95	9.523	30.	1.6	33.038	5.748	4.11	5.75	11.	18.8
00931	SODIUM ADSORPTION RATIO	09/28/60-01/07/86	44	0.3	0.361	1.9	0.1	0.079	0.281	0.2	0.2	0.4	0.65
00932	SODIUM, PERCENT	09/28/60-01/07/86	44	12.	13.432	55.	6.	55.228	7.432	9.	10.	14.	18.
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/09/65-03/20/80	12	10.5	10.475	21.	5.1	19.649	4.433	5.37	6.9	12.75	18.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/13/93	101	2.	2.139	3.9	1.2	0.418	0.647	1.4	1.65	2.5	3.18
00940	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/13/93	102	11.	14.118	39.	2.	75.689	8.7	6.	8.	17.25	29.1
00945	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/13/93	102	40.5	45.725	100.	12.	367.33	19.166	24.	32.75	59.	76.1
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/13/93	101	0.1	0.115	0.3	0.	0.004	0.066	0.05	0.05	0.2	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/13/93	101	5.	4.541	9.4	0.3	3.363	1.834	1.62	3.1	5.9	6.4
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	50	0.75	0.9	3.	0.	0.337	0.58	0.5	0.5	1.	2.
01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/29/79-09/20/82	14	0.	0.25	1.	0.	0.183	0.427	0.	0.	0.625	1.
01002	ARSENIC, TOTAL (UG/L AS AS)	03/29/79-09/20/82	14	1.	1.286	3.	1.	0.374	0.611	1.	1.	1.25	2.5
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	58	46.	46.034	76.	0.	160.279	12.66	32.9	40.	52.	63.2
01006	BARIUM, SUSPENDED (UG/L AS BA)	03/29/79-09/20/82	11	50.	53.182	200.	0.	3231.364	56.845	0.	5.	60.	178.
01007	BARIUM, TOTAL (UG/L AS BA)	03/29/79-09/20/82	13	100.	76.923	200.	0.	2652.244	51.5	10.	37.5	100.	160.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	36 ##	0.25	0.269	0.7	0.	0.014	0.12	0.25	0.25	0.25	0.5
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	50 ##	0.5	0.72	5.	0.	0.553	0.743	0.5	0.5	0.5	1.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/29/79-07/20/81	9	0.	0.333	1.	0.	0.25	0.5	0.	0.	1.	1.
01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/79-09/20/82	14	0.75	0.821	3.	0.	0.716	0.846	0.	0.	1.	2.5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	49 ##	0.5	3.755	20.	0.5	30.355	5.51	0.5	0.5	5.	10.
01031	CHROMIUM, SUSPEND (UG/L AS CR)	06/12/79-05/10/82	10	0.	5.	30.	0.	94.444	9.718	0.	0.	10.	28.
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/12/79-09/20/82	13	10.	14.615	40.	10.	76.923	8.771	10.	10.	20.	32.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	59 ##	1.5	1.347	3.	0.	0.39	0.625	0.	1.5	1.5	1.5
01036	COBALT, SUSPENDED (UG/L AS CO)	03/29/79-07/20/81	10	1.	1.	3.	0.	1.111	1.054	0.	0.	2.	2.9
01037	COBALT, TOTAL (UG/L AS CO)	03/29/79-09/20/82	14	1.	1.75	6.	0.	2.721	1.65	0.	0.875	2.25	5.
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	50	2.	2.2	9.	0.5	2.673	1.635	1.	1.	3.	4.
01041	COPPER, SUSPENDED (UG/L AS CU)	03/29/79-09/20/82	14	3.5	4.5	17.	0.	19.654	4.433	0.	1.	5.5	13.
01042	COPPER, TOTAL (UG/L AS CU)	03/29/79-01/23/84	15	6.	7.4	19.	2.	23.257	4.823	2.6	4.	11.	16.
01044	IRON, SUSPENDED (UG/L AS FE)	03/29/79-09/20/82	14	435.	705.	2200.	110.	500426.923	707.409	115.	162.5	1010.	2050.
01045	IRON, TOTAL (UG/L AS FE)	09/28/60-09/20/82	17	400.	666.471	2200.	110.	444149.265	666.445	126.	165.	955.	1960.
01046	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/13/93	62	20.	41.621	540.	1.5	6995.604	83.64	5.	10.	35.	59.7
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	50 ##	1.	1.47	5.	0.	1.453	1.205	0.05	0.5	2.5	2.95
01050	LEAD, SUSPENDED (UG/L AS PB)	03/29/79-09/20/82	12	4.5	6.167	27.	1.	47.788	6.913	1.3	2.25	7.25	21.3
01051	LEAD, TOTAL (UG/L AS PB)	03/29/79-09/20/82	14	5.	6.857	28.	2.	41.055	6.407	2.5	4.	7.5	18.5
01054	MANGANESE, SUSPENDED (UG/L AS MN)	03/29/79-09/20/82	14	50.	60.643	150.	0.	2039.632	45.162	10.	27.5	95.	145.
01055	MANGANESE, TOTAL (UG/L AS MN)	09/28/60-09/20/82	19	70.	88.947	250.	0.	3532.164	59.432	40.	50.	120.	180.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-09/13/93	59	16.	25.441	230.	0.5	1068.173	32.683	4.	8.	31.	53.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	44 ##	5.	5.114	10.	5.	0.568	0.754	5.	5.	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	56	2.	2.366	6.	0.	1.914	1.383	0.5	1.	3.	4.
01066	NICKEL, SUSPENDED (UG/L AS NI)	12/10/79-09/20/82	11	4.	5.364	14.	1.	19.055	4.365	1.	2.	8.	13.6
01067	NICKEL, TOTAL (UG/L AS NI)	12/10/79-09/20/82	11	6.	7.909	19.	2.	29.891	5.467	2.2	3.	11.	18.4
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	59 ##	0.5	0.5	4.	0.	0.267	0.517	0.	0.5	0.5	0.5
01076	SILVER, SUSPENDED (UG/L AS AG)	03/29/79-07/20/81	10	0.	0.1	1.	0.	0.1	0.316	0.	0.	0.	0.9
01077	SILVER, TOTAL (UG/L AS AG)	03/29/79-09/20/82	18	0.	0.167	1.	0.	0.088	0.297	0.	0.	0.5	0.55
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	45	190.	198.711	370.	90.	5537.119	74.412	98.	135.	260.	300.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	45 ##	3.	3.067	6.	3.	0.2	0.447	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	50	8.	10.41	64.	0.	139.303	11.803	1.5	3.	11.25	22.9
01091	ZINC, SUSPENDED (UG/L ZN)	03/29/79-05/10/82	10	20.	22.	50.	0.	262.222	16.193	1.	10.	32.5	49.
01092	ZINC, TOTAL (UG/L AS ZN)	03/29/79-09/20/82	14	25.	30.	60.	10.	276.923	16.641	10.	20.	42.5	60.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	45	20.	25.333	300.	5.	2081.136	45.619	5.	5.	25.	40.

** - Less 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: HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	45	6.	7.089	16.	2.	13.265	3.642	2.	4.5	9.5	11.4
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	59 ##	0.5	0.441	0.5	0.	0.027	0.163	0.	0.5	0.5	0.5
01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/29/79-07/20/81	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/79-09/20/82	14 ##	0.25	0.25	0.5	0.	0.067	0.259	0.	0.	0.5	0.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	89	64.	414.062	12200.	0.5	1976094.079	1405.736	6.	16.	200.	1050.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	89	1.806	1.772	4.086	-0.301	0.751	0.867	0.778	1.203	2.299	3.021
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			59.173								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	88	130.	1076.011	31000.	3.	15352622.126	3918.242	5.9	24.5	460.	1689.4
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	88	2.114	2.083	4.491	0.477	0.789	0.888	0.77	1.387	2.663	3.227
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			121.108								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	09/28/60-04/18/61	2	0.	0.	0.	0.	0.	0.	**	**	**	**
34790	SURFACTANTS, AS CTAS, WATER MG/L	08/21/92-08/21/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**
34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	10.	10.	10.	10.	0.	0.	**	**	**	**
34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	83.	83.	83.	83.	0.	0.	**	**	**	**
34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	73.	73.	73.	73.	0.	0.	**	**	**	**
34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	38.	38.	38.	38.	0.	0.	**	**	**	**
34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	37.	37.	37.	37.	0.	0.	**	**	**	**
34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	46.	46.	46.	46.	0.	0.	**	**	**	**
34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	19.	19.	19.	19.	0.	0.	**	**	**	**
34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34880	IRON,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	46.	46.	46.	46.	0.	0.	**	**	**	**
34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	44.	44.	44.	44.	0.	0.	**	**	**	**
34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	70.	70.	70.	70.	0.	0.	**	**	**	**
34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	41.	41.	41.	41.	0.	0.	**	**	**	**
34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	64.	64.	64.	64.	0.	0.	**	**	**	**
34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	9.	9.	9.	9.	0.	0.	**	**	**	**
34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	13.	13.	13.	13.	0.	0.	**	**	**	**
34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	97.	97.	97.	97.	0.	0.	**	**	**	**
34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	11.	11.	11.	11.	0.	0.	**	**	**	**
34985	TIN,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	100.	100.	100.	100.	0.	0.	**	**	**	**
35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	29.	29.	29.	29.	0.	0.	**	**	**	**
35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	08/21/92-08/21/92	1	200.	200.	200.	200.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11/09/87-07/19/93	20	81.5	87.6	162.	39.	1037.726	32.214	47.3	63.25	116.75	122.9
60050	ALGAE, TOTAL (CELLS/ML)	03/29/79-07/20/81	13	3700.	10946.154	36000.	400.	178334208.974	13354.183	444.	895.	24000.	34800.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-09/13/93	102	167.	184.	349.	66.	3954.752	62.887	109.3	133.75	236.25	271.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/07/86	40	148.	150.95	267.	68.	2383.485	48.821	90.2	111.	190.25	216.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-11/30/82	37	1810.	2532.622	6800.	270.	3310722.631	1819.539	704.4	1410.	3255.	6172.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-02/08/83	41	0.21	0.23	0.4	0.09	0.006	0.08	0.14	0.165	0.29	0.358
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	93	94.	87.516	100.	43.	210.122	14.496	60.8	80.	98.	100.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	11/06/85-11/06/85	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	11/06/85-11/06/85	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	11/06/85-11/06/85	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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Parameter Inventory for Station: HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	11/06/85-11/06/85	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	11/06/85-11/06/85	1	59.	59.	59.	59.	0.	0.	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	11/06/85-11/06/85	1	76.	76.	76.	76.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	11/06/85-11/06/85	1	90.	90.	90.	90.	0.	0.	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	11/06/85-11/06/85	1	96.	96.	96.	96.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/22/90-08/31/92	11	0.02	0.021	0.04	0.01	0.	0.011	0.01	0.01	0.03	0.04
71820	DENSITY (GM/ML AT 20 C)	07/01/86-07/01/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/29/79-01/19/81	23	0.05	0.159	2.5	0.01	0.262	0.512	0.01	0.02	0.06	0.16
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/07/86	24	0.06	0.16	2.6	0.	0.272	0.521	0.	0.015	0.087	0.135
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/28/60-08/09/65	6	2.1	2.617	6.5	0.8	3.922	1.98	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/07/86	47	0.18	0.47	10.	0.06	2.289	1.513	0.09	0.12	0.28	0.322
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/29/79-07/20/81	26	6.2	6.8	25.	3.5	15.425	3.927	4.44	4.95	7.3	8.02
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	50 ##	0.05	0.102	0.7	0.05	0.013	0.115	0.05	0.05	0.1	0.25
71895	MERCURY, SUSPENDED (UG/L AS HG)	03/29/79-09/20/82	8	0.	0.025	0.2	0.	0.005	0.071	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/29/79-09/20/82	14 ##	0.05	0.132	0.3	0.05	0.01	0.101	0.05	0.05	0.25	0.275
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-09/13/93	93	8.	67.043	4458.	1.	212979.781	461.497	3.	5.	17.5	52.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-03/18/91	33	136.	910.206	7740.	0.	3448310.526	1856.963	5.48	31.	439.	4718.
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/19/81-07/20/81	4	1.5	1.8	2.9	1.3	0.553	0.744	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: HAFE0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	96	2	0.02	22	0	0.00	37	1	0.03	37	1	0.03			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	96	0	0.00	24	0	0.00	36	0	0.00	36	0	0.00			
00400	PH	Other-Hi Lim.	9.	105	0	0.00	27	0	0.00	38	0	0.00	40	0	0.00			
		Other-Lo Lim.	6.5	105	0	0.00	27	0	0.00	38	0	0.00	40	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	72	0	0.00	16	0	0.00	32	0	0.00	24	0	0.00			
		Other-Lo Lim.	6.5	72	0	0.00	16	0	0.00	32	0	0.00	24	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	44	0	0.00	11	0	0.00	18	0	0.00	15	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	11	0	0.00	4	0	0.00	4	0	0.00	3	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	37	0	0.00	10	0	0.00	10	0	0.00	17	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	84	0	0.00	19	0	0.00	35	0	0.00	30	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	102	0	0.00	26	0	0.00	37	0	0.00	39	0	0.00			
		Drinking Water	250.	102	0	0.00	26	0	0.00	37	0	0.00	39	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	102	0	0.00	26	0	0.00	37	0	0.00	39	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	101	0	0.00	25	0	0.00	37	0	0.00	39	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
		Drinking Water	50.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	58	0	0.00	17	0	0.00	24	0	0.00	17	0	0.00			
01006	BARIUM, SUSPENDED	Drinking Water	2000.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	13	0	0.00	2	0	0.00	5	0	0.00	6	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	36	0	0.00	12	0	0.00	15	0	0.00	9	0	0.00			
		Drinking Water	4.	36	0	0.00	12	0	0.00	15	0	0.00	9	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	50	1	0.02	15	0	0.00	20	0	0.00	15	1	0.07			
		Drinking Water	5.	50	1	0.02	15	0	0.00	20	0	0.00	15	1	0.07			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	9	0	0.00	2	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	5.	9	0	0.00	2	0	0.00	2	0	0.00	5	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	5.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	49	0	0.00	15	0	0.00	19	0	0.00	15	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	10	0	0.00	2	0	0.00	3	0	0.00	5	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	13	0	0.00	3	0	0.00	5	0	0.00	5	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
		Drinking Water	1300.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	1300.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	15	1	0.07	3	0	0.00	6	0	0.00	6	1	0.17			
		Drinking Water	1300.	15	0	0.00	3	0	0.00	6	0	0.00	6	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
		Drinking Water	15.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
01050	LEAD, SUSPENDED	Fresh Acute	82.	12	0	0.00	3	0	0.00	3	0	0.00	6	0	0.00			
		Drinking Water	15.	12	1	0.08	3	0	0.00	3	0	0.00	6	1	0.17			
01051	LEAD, TOTAL	Fresh Acute	82.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	15.	14	1	0.07	3	0	0.00	5	0	0.00	6	1	0.17			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	56	0	0.00	17	0	0.00	24	0	0.00	15	0	0.00			
		Drinking Water	100.	56	0	0.00	17	0	0.00	24	0	0.00	15	0	0.00			
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	100.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	100.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	59	0	0.00	18	0	0.00	24	0	0.00	17	0	0.00			
		Drinking Water	100.	59	0	0.00	18	0	0.00	24	0	0.00	17	0	0.00			
01076	SILVER, SUSPENDED	Fresh Acute	4.1	10	0	0.00	2	0	0.00	3	0	0.00	5	0	0.00			
		Drinking Water	100.	10	0	0.00	2	0	0.00	3	0	0.00	5	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	18	0	0.00	4	0	0.00	7	0	0.00	7	0	0.00			
		Drinking Water	100.	18	0	0.00	4	0	0.00	7	0	0.00	7	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
		Drinking Water	5000.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	10	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00			
		Drinking Water	5000.	10	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	5000.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	59	0	0.00	18	0	0.00	24	0	0.00	17	0	0.00			
		Drinking Water	50.	59	0	0.00	18	0	0.00	24	0	0.00	17	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	10	0	0.00	2	0	0.00	3	0	0.00	5	0	0.00			
		Drinking Water	50.	10	0	0.00	2	0	0.00	3	0	0.00	5	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	89	22	0.25	22	6	0.27	33	7	0.21	34	9	0.26			
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	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
		Drinking Water	2.	50	0	0.00	15	0	0.00	20	0	0.00	15	0	0.00			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	8	0	0.00	2	0	0.00	3	0	0.00	3	0	0.00			
		Drinking Water	2.	8	0	0.00	2	0	0.00	3	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	2.	14	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00			

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

Annual Analysis for 1960 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	1	20.	20.	20.	20.	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 1961 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	1	8.5	8.5	8.5	8.5	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 box-and-whisker plot

Annual Analysis for 1974 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	2	7.25	7.25	11.	3.5	28.125	5.303	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	2	7.	7.	8.	6.	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	2	5625.	5625.	9930.	1320.	37066050.	6088.189	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	2	3.825	3.825	5.45	2.2	5.281	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

Annual Analysis for 1976 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	4	16.5	18.	27.	12.	42.	6.481	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	4	17.25	17.625	26.	10.	43.229	6.575	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	4	8185.	11887.5	29800.	1380.	177822891.667	13335.025	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	4	4.575	5.385	10.36	2.03	15.536	3.942	**	**	**	**

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	10	12.75	14.9	27.	0.	101.767	10.088	0.25	7.	25.5	27.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	10	20.5	17.7	28.	-1.	84.511	9.193	0.15	11.625	24.75	27.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	9	1950.	7046.778	38300.	715.	151326840.944	12301.498	715.	1138.	8035.	38300.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	9	2.37	3.821	12.21	1.66	11.807	3.436	1.66	1.94	4.635	12.21

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

Annual Analysis for 1978 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	3	1.5	5.333	14.5	0.	63.583	7.974	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	3	-4.	2.333	14.	-4.	102.333	10.116	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	3	2630.	4295.667	9270.	987.	19232856.333	4385.528	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	3	2.74	3.297	5.32	1.83	3.277	1.81	**	**	**	**

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	16	19.25	17.95	26.	5.	48.967	6.998	6.4	11.875	24.175	25.65
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	15	23.9	20.433	31.	8.	63.362	7.96	9.2	11.5	25.6	30.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	17	6240.	9104.706	33400.	1950.	65679363.971	8104.281	2046.	3680.	12100.	23240.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	3	6.91	7.397	11.12	4.16	12.288	3.505	**	**	**	**

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

Annual Analysis for 1980 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	15	16.	14.3	28.	1.	84.743	9.206	1.9	7.	23.	27.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	15	16.	15.967	34.	-2.	124.838	11.173	7.2	-1.5	26.	31.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	15	3620.	8549.533	23300.	798.	75129501.838	8667.728	805.2	1320.	15400.	23120.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	6	3.71	4.302	8.61	1.71	8.184	2.861	**	**	**	**

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

Annual Analysis for 1981 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	12	12.	12.375	28.5	0.	75.551	8.692	0.15	5.25	18.75	26.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	11	18.	16.545	33.5	2.	92.723	9.629	3.	7.	24.	32.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	12	3000.	3143.75	8070.	650.	5170950.568	2273.972	665.	961.25	4662.5	7266.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	6	2.95	3.067	4.78	1.77	1.129	1.063	**	**	**	**

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	14	8.5	10.536	27.	0.	65.21	8.075	1.5	3.75	18.	24.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	14	10.	11.179	27.	-7.	94.216	9.706	1.5	6.	19.375	25.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	14	4440.	13277.143	50400.	920.	285760745.055	16904.459	1100.	1682.5	18175.	49600.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	7	6.5	6.99	14.7	2.04	30.201	5.496	**	**	**	**

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	18	14.5	15.306	28.	4.	76.769	8.762	4.	7.375	24.25	28.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	18	19.	16.361	27.5	-1.	92.906	9.639	2.	1.125	25.125	27.05
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	18	2070.	7565.889	36500.	731.	98137039.634	9906.414	803.	1151.	11390.	23810.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	17	2.4	4.128	11.77	1.67	9.447	3.074	1.718	1.905	6.255	9.322

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

Annual Analysis for 1984 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	12	12.	12.542	25.	0.5	68.612	8.283	1.25	4.25	21.	24.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	12	11.5	13.167	31.	-5.	109.061	10.443	2.6	8.25	22.5	28.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	12	2262.5	7917.083	39600.	1320.	125600438.447	11207.16	1425.	1772.5	8460.	33390.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	12	2.56	4.228	12.03	2.19	8.997	2.999	2.211	2.318	4.985	10.779

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	16	13.	14.875	26.	1.5	61.317	7.83	4.65	8.625	23.625	25.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	16	15.25	15.5	28.	-2.	86.833	9.318	2.7	1.5	23.125	27.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	16	3700.	15223.75	145000.	939.	1261778841.133	35521.526	1121.7	1400.	12490.25	62680.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	16	3.21	5.369	27.5	1.82	40.852	6.392	1.932	2.11	6.11	15.145

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	16	12.5	12.406	24.	0.	77.907	8.827	0.	3.75	21.75	24.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	16	16.5	13.625	28.	-2.	72.25	8.5	3.5	5.5	19.75	24.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	16	2614.	6137.75	46400.	1070.	123803355.533	11126.696	1196.	1377.5	4657.5	22320.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	16	2.73	3.667	14.15	1.88	9.006	3.001	1.978	2.088	3.615	8.333

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	11	19.	15.591	27.	3.	75.441	8.686	3.6	6.	22.	26.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	11	21.	17.273	27.	4.	79.018	8.889	4.	9.	24.	27.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	11	3650.	5278.273	15420.	813.	25854312.618	5084.714	878.4	1185.	7745.	15116.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	10	3.33	3.784	7.6	1.76	3.923	1.981	1.779	1.973	5.178	7.495

** - 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

Annual Analysis for 1988 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	6	12.	13.167	27.	0.	115.367	10.741	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	6	14.5	13.833	30.	-7.	153.367	12.384	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	6	2990.	2879.	5100.	1043.	2062040.8	1435.981	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	5	2.81	2.57	3.79	1.	1.075	1.037	**	**	**	**

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	6	14.5	14.333	24.	4.	69.867	8.359	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	6	21.	19.667	28.	10.	40.267	6.346	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	6	3665.	6518.333	16000.	2400.	31845056.667	5643.142	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	6	3.21	4.085	7.1	2.64	3.474	1.864	**	**	**	**

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Annual Analysis for 1990 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	6	15.5	15.167	25.	5.	84.967	9.218	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	6	15.25	17.083	25.	11.	38.042	6.168	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	6	3265.	3803.333	6530.	1560.	4521666.667	2126.421	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	6	3.03	3.198	4.31	2.2	0.793	0.89	**	**	**	**

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Annual Analysis for 1991 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	6	16.5	15.667	26.	4.	85.867	9.266	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	6	20.5	20.5	30.	11.	44.3	6.656	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	6	2875.	4008.333	9800.	1010.	12050056.667	3471.319	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	6	2.84	3.182	5.36	1.87	1.932	1.39	**	**	**	**

** - Less 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 HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	7	17.	14.6	24.7	2.	89.037	9.436	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	6	18.5	17.667	26.	8.	63.467	7.967	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	5	3300.	5646.	10400.	1800.	17230580.	4150.973	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	8	2.93	3.418	5.53	2.32	1.657	1.287	**	**	**	**

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Annual Analysis for 1993 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	4	23.5	20.25	28.	6.	94.917	9.743	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	4	21.5	21.75	29.	15.	32.917	5.737	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	4	2075.	8147.5	26600.	1840.	151368625.	12303.196	**	**	**	**
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	4	2.48	4.245	9.66	2.36	13.041	3.611	**	**	**	**

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Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	49	22.	20.014	28.	10.	25.158	5.016	12.	15.5	24.	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	47	22.	20.638	30.	8.	32.899	5.736	11.9	17.	25.	28.
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-09/13/93	15	763.	762.	767.	752.	16.571	4.071	755.	760.	766.	766.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	46	1320.	3250.587	33400.	715.	42261715.226	6500.901	806.4	943.	2160.	5858.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	42	2.11	2.691	11.12	1.	4.095	2.024	1.689	1.82	2.508	3.889
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	22	1.95	3.191	20.	0.4	17.961	4.238	0.53	1.175	3.025	7.98
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/13/93	28	375.5	373.25	524.	260.	5415.157	73.588	271.8	303.25	431.25	464.8
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-09/13/93	24	8.65	8.808	10.9	7.	1.635	1.279	7.2	7.725	9.95	10.7
00400p	PH (STANDARD UNITS)	09/28/60-07/19/93	27	7.9	7.783	8.4	6.87	0.177	0.421	7.18	7.5	8.1	8.244
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-07/19/93	27	7.9	7.571	8.4	6.87	0.224	0.473	7.18	7.5	8.1	8.244
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-07/19/93	27	0.013	0.027	0.135	0.004	0.001	0.031	0.006	0.008	0.032	0.066
00403	PH, LAB, STANDARD UNITS SU	01/19/81-09/13/93	16	8.05	8.012	8.4	7.7	0.037	0.193	7.7	7.825	8.1	8.26
00403	CONVERTED PH, LAB, STANDARD UNITS	01/19/81-09/13/93	16	8.047	7.972	8.4	7.7	0.039	0.197	7.7	7.825	8.1	8.26
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/19/81-09/13/93	16	0.009	0.011	0.02	0.004	0.	0.005	0.006	0.008	0.015	0.02
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-03/18/91	18	97.	90.778	130.	0.	784.418	28.007	53.1	83.5	103.25	121.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-09/13/93	18	0.035	0.041	0.08	0.	0.001	0.023	0.009	0.02	0.063	0.071
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/79-08/31/92	16	0.04	0.049	0.15	0.005	0.001	0.036	0.005	0.023	0.068	0.108
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-09/13/93	11	0.01	0.013	0.02	0.005	0.	0.007	0.005	0.005	0.02	0.02
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/29/79-09/13/93	21	0.44	0.514	1.2	0.1	0.064	0.253	0.252	0.335	0.65	0.888
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/29/79-08/31/92	10	1.1	1.157	1.6	0.76	0.117	0.343	0.762	0.788	1.5	1.59
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-09/13/93	19	1.2	1.211	1.7	0.8	0.084	0.29	0.8	1.	1.5	1.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/29/79-09/13/93	21	0.06	0.057	0.1	0.03	0.	0.022	0.03	0.035	0.07	0.09
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-09/13/93	21	0.04	0.044	0.08	0.02	0.	0.017	0.022	0.03	0.055	0.07
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-09/13/93	15	0.04	0.036	0.07	0.01	0.	0.019	0.01	0.02	0.05	0.064
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/07/86	11	150.	151.909	200.	120.	634.491	25.189	120.4	122.	170.	196.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/07/86	10	39.5	45.1	76.	19.	333.878	18.272	20.4	33.	60.	75.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/13/93	26	49.5	50.154	80.	31.	130.615	11.429	35.7	42.	59.25	65.3
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/13/93	26	9.75	9.427	13.	6.2	3.584	1.893	6.48	7.85	11.	12.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/13/93	25	14.	14.752	26.	5.7	42.874	6.548	6.72	8.9	22.	24.
00931p	SODIUM ADSORPTION RATIO	09/28/60-01/07/86	11	0.4	0.436	0.8	0.2	0.039	0.196	0.2	0.3	0.6	0.78
00932p	SODIUM, PERCENT	09/28/60-01/07/86	11	14.	15.	25.	9.	26.4	5.138	9.	12.	17.	24.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/13/93	25	2.7	2.728	3.8	1.9	0.291	0.54	1.96	2.25	3.15	3.44
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/13/93	26	19.	20.5	37.	8.	108.5	10.416	8.	10.	31.	36.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/13/93	26	59.	59.654	100.	27.	477.275	21.847	33.1	40.	80.25	91.9
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/13/93	25	0.1	0.146	0.3	0.	0.005	0.073	0.08	0.1	0.2	0.24
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/13/93	25	4.6	4.412	7.3	0.5	2.839	1.685	2.08	2.9	5.6	6.64
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	15	1.	1.033	3.	0.5	0.552	0.743	0.5	0.5	1.	2.4
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	17	51.	51.647	76.	0.	288.618	16.989	30.4	46.	64.	71.2
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	12 ##	0.25	0.229	0.25	0.	0.005	0.072	0.075	0.25	0.25	0.25
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	15 ##	0.5	0.767	2.	0.	0.317	0.563	0.3	0.5	1.	2.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	15 ##	0.5	2.333	10.	0.5	11.345	3.368	0.5	0.5	3.	10.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	18 ##	1.5	1.278	1.5	0.	0.271	0.521	0.	1.5	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	15	2.	2.667	9.	1.	4.952	2.225	1.	1.	3.	7.2
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/13/93	20	11.	27.75	220.	1.5	2443.118	49.428	1.65	6.25	23.	78.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	15 ##	1.	1.4	3.	0.	0.971	0.986	0.3	0.5	2.5	2.7
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-09/13/93	18	16.5	15.833	39.	3.	103.441	10.171	3.9	6.5	21.	31.8
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	15 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	17	2.	2.	4.	0.5	1.063	1.031	0.5	1.25	3.	3.2
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	18 ##	0.5	0.472	1.	0.	0.043	0.208	0.	0.5	0.5	0.55
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	15	270.	259.333	370.	150.	3406.667	58.367	168.	210.	300.	340.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	15 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	15	8.	10.767	54.	0.	185.781	13.63	0.9	1.5	14.	35.4
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	15	10.	10.333	20.	5.	40.952	6.399	5.	5.	20.	20.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	15	9.	9.4	16.	4.	10.257	3.203	5.2	6.	11.	14.2
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	18 ##	0.5	0.472	0.5	0.	0.014	0.118	0.45	0.5	0.5	0.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	22	85.	863.045	12200.	6.	6862598.712	2619.656	8.6	17.25	283.75	2460.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	22	1.91	1.952	4.086	0.778	0.78	0.883	0.932	1.229	2.453	3.386
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			89.528								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	21	130.	430.048	3333.	4.	630658.848	794.14	11.8	36.5	400.	1696.

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Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	21	2.114	2.096	3.523	0.602	0.554	0.744	1.056	1.553	2.6	3.212
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			124.776								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-09/13/93	26	238.	236.731	349.	135.	3414.765	58.436	154.2	190.75	275.	317.9
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/07/86	8	197.5	201.625	267.	150.	1618.554	40.231	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-11/30/82	9	1270.	1277.444	3200.	438.	667988.778	817.306	438.	661.5	1455.	3200.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-02/08/83	11	0.31	0.302	0.4	0.21	0.004	0.065	0.21	0.23	0.37	0.394
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	22	95.5	89.091	100.	50.	188.182	13.718	65.3	79.75	100.	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/07/86	4	0.035	0.04	0.09	0.	0.002	0.042	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/07/86	9	0.21	0.22	0.31	0.15	0.003	0.058	0.15	0.165	0.28	0.31
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	15 ##	0.05	0.103	0.3	0.05	0.008	0.088	0.05	0.05	0.2	0.27
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-09/13/93	22	6.	8.227	38.	1.	52.851	7.27	3.3	5.	10.	13.1
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-03/18/91	7	36.	93.714	340.	11.	13930.905	118.029	**	**	**	**

** - Less 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: 11/01 to 3/20 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	71	5.	5.535	14.5	0.	14.117	3.757	0.1	3.	7.5	10.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	70	-3.5	7.379	22.	-7.	44.713	6.687	2.	6.75	12.	15.9
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-09/13/93	28	757.5	759.143	774.	747.	61.164	7.821	749.9	753.	766.75	771.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	70	4925.	10831.486	145000.	650.	368664087.79	19200.627	1674.	2485.	10422.5	24530.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	54	3.785	5.077	27.5	1.74	18.152	4.26	2.27	2.648	5.373	9.755
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	37	2.8	100.232	3500.	0.5	330038.693	574.49	1.34	2.	5.9	22.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/13/93	39	265.	274.59	460.	150.	7191.985	84.806	165.	210.	340.	430.
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-09/13/93	36	13.1	12.906	15.2	7.5	2.726	1.651	10.52	12.425	14.2	14.69
00400p	PH (STANDARD UNITS)	09/28/60-07/19/93	38	7.615	7.581	8.1	6.81	0.113	0.336	6.998	7.4	7.848	8.
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-07/19/93	38	7.615	7.441	8.1	6.81	0.132	0.364	6.998	7.4	7.847	8.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-07/19/93	38	0.024	0.036	0.155	0.008	0.001	0.034	0.01	0.014	0.04	0.1
00403	PH, LAB, STANDARD UNITS SU	01/19/81-09/13/93	32	7.85	7.8	8.2	7.2	0.068	0.26	7.4	7.7	7.975	8.1
00403	CONVERTED PH, LAB, STANDARD UNITS	01/19/81-09/13/93	32	7.847	7.716	8.2	7.2	0.075	0.274	7.4	7.7	7.975	8.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/19/81-09/13/93	32	0.014	0.019	0.063	0.006	0.	0.014	0.008	0.011	0.02	0.04
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-03/18/91	24	52.5	49.208	122.	0.	1043.042	32.296	0.	32.75	72.	88.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-09/13/93	35	0.05	0.104	2.	0.	0.11	0.332	0.005	0.02	0.07	0.102
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/79-08/31/92	23	0.05	0.173	2.1	0.005	0.206	0.454	0.014	0.03	0.07	0.564
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-09/13/93	18 ##	0.005	0.009	0.02	0.005	0.	0.006	0.005	0.005	0.01	0.02
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/29/79-09/13/93	34	0.4	0.624	4.1	0.02	0.65	0.806	0.1	0.215	0.692	1.15
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/29/79-08/31/92	10	1.4	1.464	2.6	0.64	0.264	0.514	0.686	1.175	1.65	2.52
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-09/13/93	35	1.3	1.369	2.6	0.6	0.162	0.403	0.86	1.1	1.6	1.84
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/29/79-09/13/93	35	0.05	0.176	3.3	0.01	0.334	0.578	0.02	0.03	0.07	0.12
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-09/13/93	35	0.03	0.052	0.85	0.005	0.02	0.14	0.005	0.01	0.04	0.064
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-09/13/93	28	0.02	0.025	0.06	0.005	0.	0.016	0.005	0.01	0.03	0.051
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/07/86	15	96.	100.733	180.	49.	1555.924	39.445	58.	66.	140.	162.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/07/86	9	39.	43.	78.	17.	404.75	20.118	17.	28.	59.5	78.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/13/93	37	33.	33.216	58.	14.	125.174	11.188	19.8	24.	41.5	49.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/13/93	37	6.2	6.308	10.	2.6	3.453	1.858	4.14	4.9	7.9	9.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/13/93	37	6.8	8.332	30.	2.2	24.77	4.977	4.52	5.65	9.3	13.6
00931p	SODIUM ADSORPTION RATIO	09/28/60-01/07/86	15	0.3	0.433	1.9	0.1	0.181	0.425	0.16	0.3	0.4	1.18
00932p	SODIUM, PERCENT	09/28/60-01/07/86	15	13.	15.733	55.	6.	126.781	11.26	8.4	11.	15.	33.4
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/13/93	37	1.7	1.943	3.9	1.2	0.37	0.609	1.38	1.5	2.2	2.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/13/93	37	11.	12.649	39.	4.	52.956	7.277	6.	9.	14.	21.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/13/93	37	37.	42.081	94.	18.	291.243	17.066	23.6	28.5	51.5	69.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/13/93	37	0.1	0.101	0.3	0.	0.005	0.069	0.05	0.05	0.15	0.2
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/13/93	37	5.6	5.143	9.4	0.3	2.77	1.664	3.12	4.55	6.05	6.48
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	20 ##	0.5	0.725	2.	0.	0.17	0.413	0.5	0.5	1.	1.
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	24	41.	41.875	65.	10.	119.071	10.912	31.	36.75	47.5	57.5
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	15 ##	0.25	0.25	0.5	0.	0.009	0.094	0.15	0.25	0.25	0.35

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Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	20 ##	0.5	0.5	1.	0.	0.026	0.162	0.5	0.5	0.5	0.5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	19 ##	0.5	2.842	20.	0.5	23.946	4.893	0.5	0.5	5.	10.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	24 ##	1.5	1.396	3.	0.	0.282	0.531	0.5	1.5	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	20	2.	2.025	5.	0.5	1.881	1.371	0.5	1.	2.75	4.9
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/13/93	24	29.5	49.333	320.	14.	4968.406	70.487	14.5	20.25	40.75	139.5
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	20 ##	1.	1.45	5.	0.	1.682	1.297	0.05	0.5	2.5	2.95
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-09/13/93	24	36.5	42.875	230.	8.	2026.636	45.018	9.	15.	52.75	71.5
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	19 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	24	2.5	2.563	6.	0.5	2.333	1.527	1.	1.	3.75	5.
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	24 ##	0.5	0.604	4.	0.	0.565	0.752	0.	0.5	0.5	0.75
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	19	160.	175.368	310.	90.	4661.801	68.277	94.	120.	230.	300.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	19 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	20	8.5	13.075	64.	1.5	190.376	13.798	2.1	6.25	18.	24.8
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	19	20.	33.947	300.	5.	4279.386	65.417	5.	5.	30.	40.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	19	6.	6.526	15.	2.	13.485	3.672	2.	2.	9.	11.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	24 ##	0.5	0.438	0.5	0.	0.029	0.169	0.	0.5	0.5	0.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	33	36.	212.909	3000.	1.	296854.335	544.843	1.8	6.5	175.	536.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	33	1.556	1.544	3.477	0.	0.813	0.901	0.191	0.812	2.243	2.724
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			34.992								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	32	64.	1915.594	31000.	3.	36997815.023	6082.583	5.	11.	395.	7702.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	32	1.806	1.913	4.491	0.477	1.155	1.075	0.699	1.041	2.591	3.811
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			81.856								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-09/13/93	37	151.	160.162	284.	88.	2485.306	49.853	99.8	121.5	191.5	239.8
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/07/86	15	134.	140.267	253.	89.	2377.638	48.761	89.6	96.	185.	222.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-11/30/82	11	1800.	3016.364	6800.	270.	5265245.455	2294.612	502.	1440.	5590.	6670.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-02/08/83	12	0.2	0.201	0.36	0.13	0.004	0.067	0.133	0.143	0.22	0.336
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	37	94.	87.459	100.	49.	214.089	14.632	61.6	79.	98.5	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/07/86	12	0.06	0.275	2.6	0.	0.538	0.734	0.	0.033	0.115	1.865
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/07/86	17	0.18	0.954	10.	0.06	6.17	2.484	0.06	0.105	0.28	4.96
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	20 ##	0.05	0.098	0.7	0.05	0.023	0.153	0.05	0.05	0.05	0.28
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-09/13/93	37	8.	136.892	4458.	1.	533559.932	730.452	2.	4.	19.5	76.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-03/18/91	14	115.	1146.057	5140.	0.	4004679.892	2001.17	0.	10.95	1561.25	5085.

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Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0080

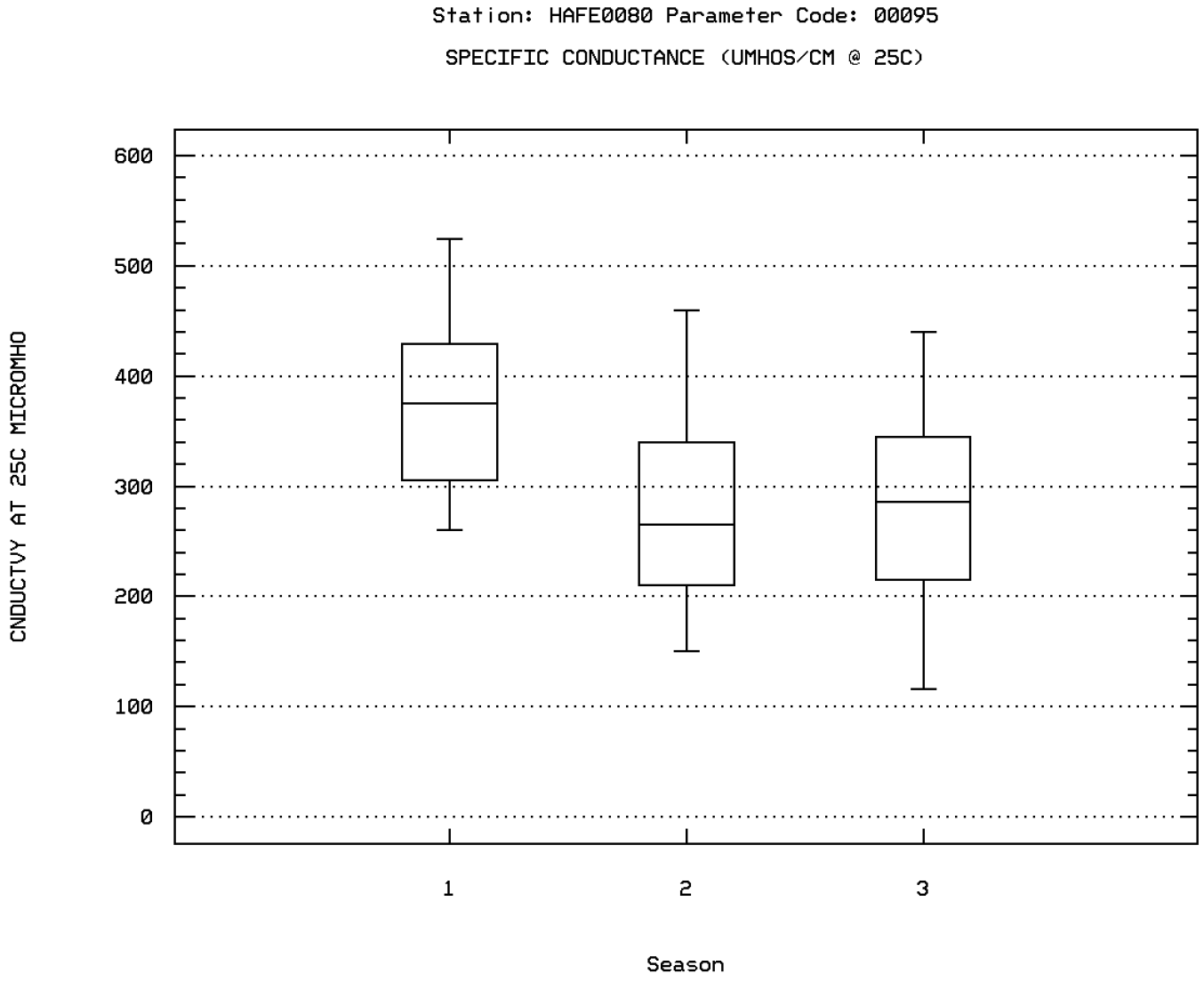
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/60-09/13/93	66	19.25	19.261	28.5	8.	40.733	6.382	8.85	13.75	25.	27.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/74-09/13/93	64	23.25	21.789	34.	7.	42.223	6.498	11.	17.625	27.	29.5
00025	BAROMETRIC PRESSURE (MM OF HG)	11/30/82-09/13/93	20	757.5	757.3	766.	752.	16.116	4.014	752.1	753.25	760.	763.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/74-09/13/93	66	3905.	8016.894	48800.	1200.	89498968.342	9460.389	1335.	2070.	10675.	19830.
00065	STAGE, STREAM (FEET)	10/22/74-09/13/93	50	3.18	4.498	14.18	1.98	8.455	2.908	2.053	2.408	6.263	8.553
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/29/79-09/13/93	37	3.1	8.168	90.	0.2	252.691	15.896	0.76	1.35	8.5	19.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/60-09/13/93	40	286.	282.25	440.	116.	7508.962	86.654	177.3	212.5	347.5	417.9
00300p	OXYGEN, DISSOLVED MG/L	09/28/60-09/13/93	36	9.15	9.497	19.6	6.3	4.865	2.206	7.37	8.2	10.175	11.12
00400p	PH (STANDARD UNITS)	09/28/60-07/19/93	40	7.975	7.847	8.6	6.97	0.178	0.422	7.119	7.525	8.108	8.2
00400p	CONVERTED PH (STANDARD UNITS)	09/28/60-07/19/93	40	7.975	7.625	8.6	6.97	0.228	0.478	7.119	7.525	8.107	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/28/60-07/19/93	40	0.011	0.024	0.107	0.003	0.001	0.028	0.006	0.008	0.03	0.076
00403	PH, LAB, STANDARD UNITS SU	01/19/81-09/13/93	24	8.	7.963	8.5	7.4	0.097	0.312	7.45	7.8	8.275	8.35
00403	CONVERTED PH, LAB, STANDARD UNITS	01/19/81-09/13/93	24	8.	7.854	8.5	7.4	0.11	0.331	7.45	7.8	8.275	8.35
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/19/81-09/13/93	24	0.01	0.014	0.04	0.003	0.	0.011	0.004	0.005	0.016	0.036
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/28/60-03/18/91	26	66.	61.923	113.	0.	804.314	28.36	21.	40.75	80.	100.3
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-09/13/93	30	0.04	0.045	0.25	0.	0.002	0.044	0.005	0.02	0.06	0.07
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/79-08/31/92	27	0.04	0.035	0.06	0.005	0.	0.018	0.009	0.02	0.05	0.06
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/04/85-09/13/93	15	0.01	0.013	0.02	0.005	0.	0.006	0.005	0.01	0.02	0.02
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/29/79-09/13/93	38	0.5	0.503	1.	0.1	0.044	0.21	0.266	0.3	0.6	0.8

** - 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: 3/21 to 7/31 - Station HAFE0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/29/79-08/31/92	17	0.94	0.893	1.2	0.53	0.037	0.191	0.594	0.735	0.985	1.2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/05/79-09/13/93	30	1.	1.067	1.8	0.5	0.095	0.309	0.7	0.9	1.225	1.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/29/79-09/13/93	38	0.04	0.053	0.18	0.02	0.001	0.031	0.03	0.04	0.07	0.091
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/29/79-09/13/93	38	0.02	0.025	0.09	0.005	0.	0.018	0.005	0.01	0.03	0.042
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/02/81-09/13/93	24	0.02	0.023	0.07	0.005	0.	0.016	0.005	0.01	0.03	0.05
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/28/60-01/07/86	18	105.	102.889	160.	50.	1110.105	33.318	50.	72.25	122.5	160.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/28/60-01/07/86	14	40.	38.929	71.	20.	178.995	13.379	20.	29.5	47.25	60.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	09/28/60-09/13/93	39	35.	35.718	56.	15.	138.734	11.779	21.	27.	45.	53.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/28/60-09/13/93	39	6.9	7.026	12.	3.1	5.789	2.406	4.2	5.	8.9	11.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	09/28/60-09/13/93	38	6.4	7.242	14.	1.6	11.252	3.354	3.49	4.2	10.	12.
00931p	SODIUM ADSORPTION RATIO	09/28/60-01/07/86	18	0.3	0.256	0.4	0.1	0.007	0.086	0.1	0.2	0.3	0.4
00932p	SODIUM, PERCENT	09/28/60-01/07/86	18	10.5	10.556	14.	6.	4.732	2.175	6.	10.	12.	14.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	09/28/60-09/13/93	39	1.9	1.946	3.4	1.2	0.262	0.512	1.3	1.6	2.3	2.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/28/60-09/13/93	39	10.	11.256	27.	2.	41.248	6.422	4.	6.	15.	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/28/60-09/13/93	39	38.	39.897	77.	12.	205.884	14.349	21.	29.	52.	60.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	09/28/60-09/13/93	39	0.1	0.109	0.2	0.05	0.003	0.051	0.05	0.1	0.1	0.2
00955p	SILICA, DISSOLVED (MG/L AS SI02)	09/28/60-09/13/93	39	5.	4.051	7.	0.6	3.822	1.955	1.3	2.1	5.7	6.2
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/79-09/09/91	15	1.	1.	2.	0.5	0.321	0.567	0.5	0.5	1.	2.
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/29/79-09/13/93	17	46.	46.294	60.	31.	51.721	7.192	35.8	41.5	50.5	56.8
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/30/82-09/09/91	9 ##	0.25	0.356	0.7	0.25	0.028	0.169	0.25	0.25	0.5	0.7
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/79-09/09/91	15 ##	0.5	0.967	5.	0.	1.445	1.202	0.3	0.5	1.	3.2
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/79-09/09/91	15 ##	0.5	6.333	20.	0.5	51.524	7.178	0.5	0.5	10.	20.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/79-09/13/93	17 ##	1.5	1.353	3.	0.	0.711	0.843	0.	1.	1.5	3.
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/79-09/09/91	15	2.	1.967	4.	0.5	1.517	1.232	0.8	1.	3.	4.
01046p	IRON, DISSOLVED (UG/L AS FE)	09/28/60-09/13/93	18	16.5	46.75	540.	1.5	15311.184	123.738	4.65	5.	30.75	95.4
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/79-09/09/91	15	1.	1.567	5.	0.	1.817	1.348	0.	0.5	2.5	3.8
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/79-09/13/93	17	8.	11.	30.	0.5	67.594	8.222	0.5	4.5	17.	22.8
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/82-09/13/93	10 ##	5.	5.5	10.	5.	2.5	1.581	5.	5.	5.	9.5
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/10/79-09/13/93	15	3.	2.467	5.	0.	2.231	1.494	0.3	1.	4.	4.4
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/79-09/13/93	17 ##	0.5	0.382	1.	0.	0.079	0.281	0.	0.	0.5	0.6
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/30/82-09/13/93	11	140.	156.364	250.	92.	2682.255	51.79	93.2	120.	190.	242.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/30/82-09/13/93	11 ##	3.	3.273	6.	3.	0.818	0.905	3.	3.	3.	5.4
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/79-09/09/91	15	7.	6.5	14.	0.	16.75	4.093	0.9	2.	10.	12.2
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/30/82-09/13/93	11	20.	30.909	100.	5.	884.091	29.734	5.	10.	40.	94.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/30/82-09/13/93	11	5.	4.909	9.	2.	5.891	2.427	2.	2.	7.	8.8
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/79-09/13/93	17 ##	0.5	0.412	0.5	0.	0.039	0.196	0.	0.5	0.5	0.5
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	34	65.	318.779	3000.	0.5	430410.048	656.056	10.5	23.	226.25	1300.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	03/29/79-09/13/93	34	1.813	1.877	3.477	-0.301	0.633	0.796	0.977	1.362	2.354	3.113
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			75.371								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	35	220.	695.971	12000.	3.	4110535.676	2027.446	8.8	64.	500.	1169.2
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/29/79-09/13/93	35	2.342	2.231	4.079	0.477	0.59	0.768	0.938	1.806	2.699	3.043
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			170.192								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/60-09/13/93	39	167.	171.462	290.	66.	3293.15	57.386	107.	121.	220.	255.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/28/60-01/07/86	17	144.	136.529	204.	68.	1409.265	37.54	85.6	103.5	156.5	194.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/28/60-11/30/82	17	2500.	2884.118	6730.	820.	2646000.735	1626.653	1260.	1800.	3655.	6354.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/28/60-02/08/83	18	0.2	0.206	0.35	0.09	0.005	0.072	0.09	0.15	0.248	0.332
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/25/79-09/13/93	34	93.	86.559	100.	43.	229.89	15.162	58.	80.	97.25	100.
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-01/07/86	8	0.05	0.046	0.09	0.	0.001	0.032	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/29/79-01/07/86	21	0.15	0.185	0.55	0.06	0.014	0.117	0.09	0.105	0.23	0.358
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/79-09/09/91	15 ##	0.05	0.107	0.25	0.05	0.007	0.084	0.05	0.05	0.2	0.25
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/25/79-09/13/93	34	13.	29.088	267.	3.	2402.143	49.012	4.	6.	31.25	72.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/25/79-03/18/91	12	337.5	1111.333	7740.	20.	4751883.152	2179.881	40.1	103.	1229.25	6039.

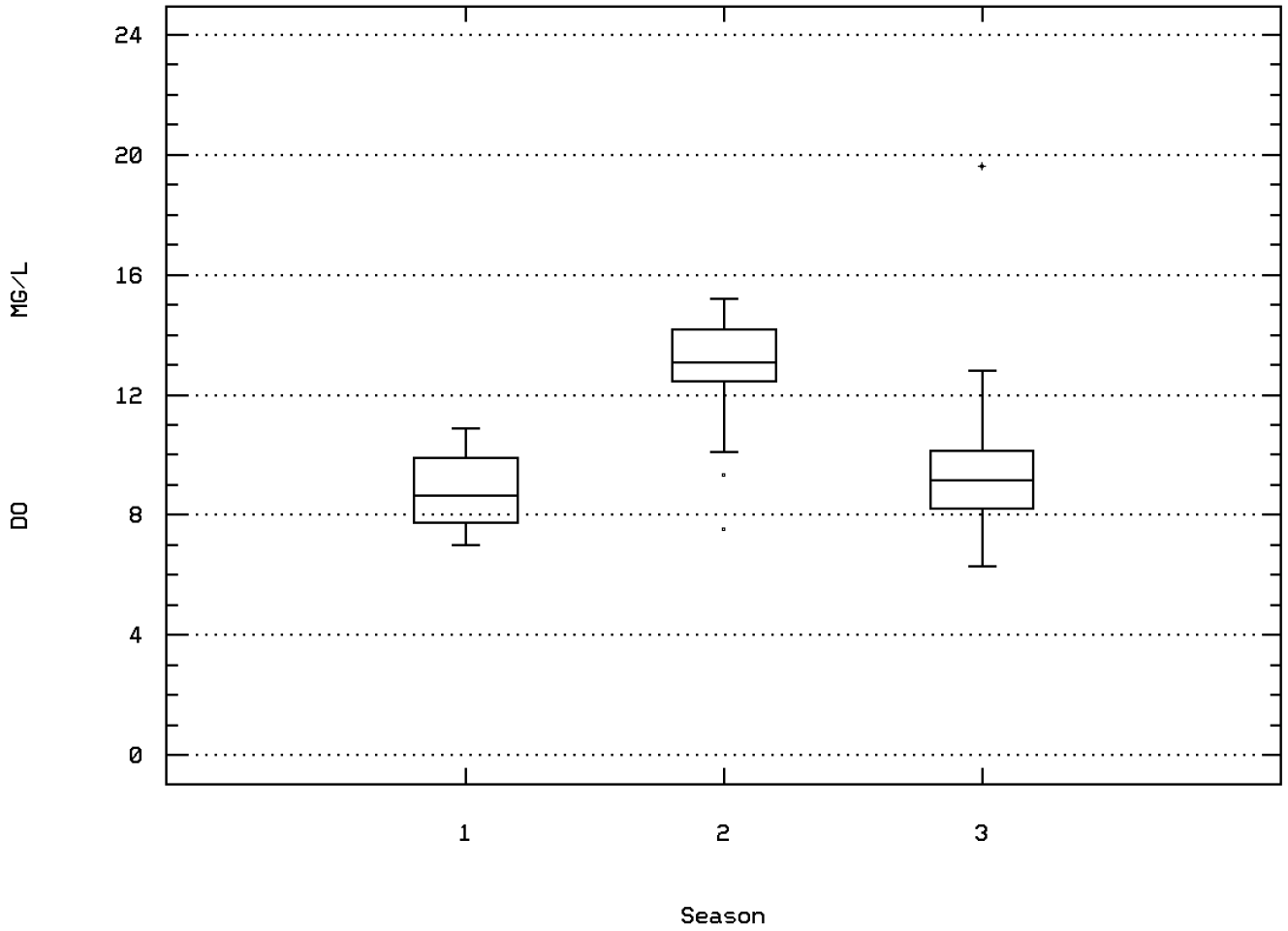
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



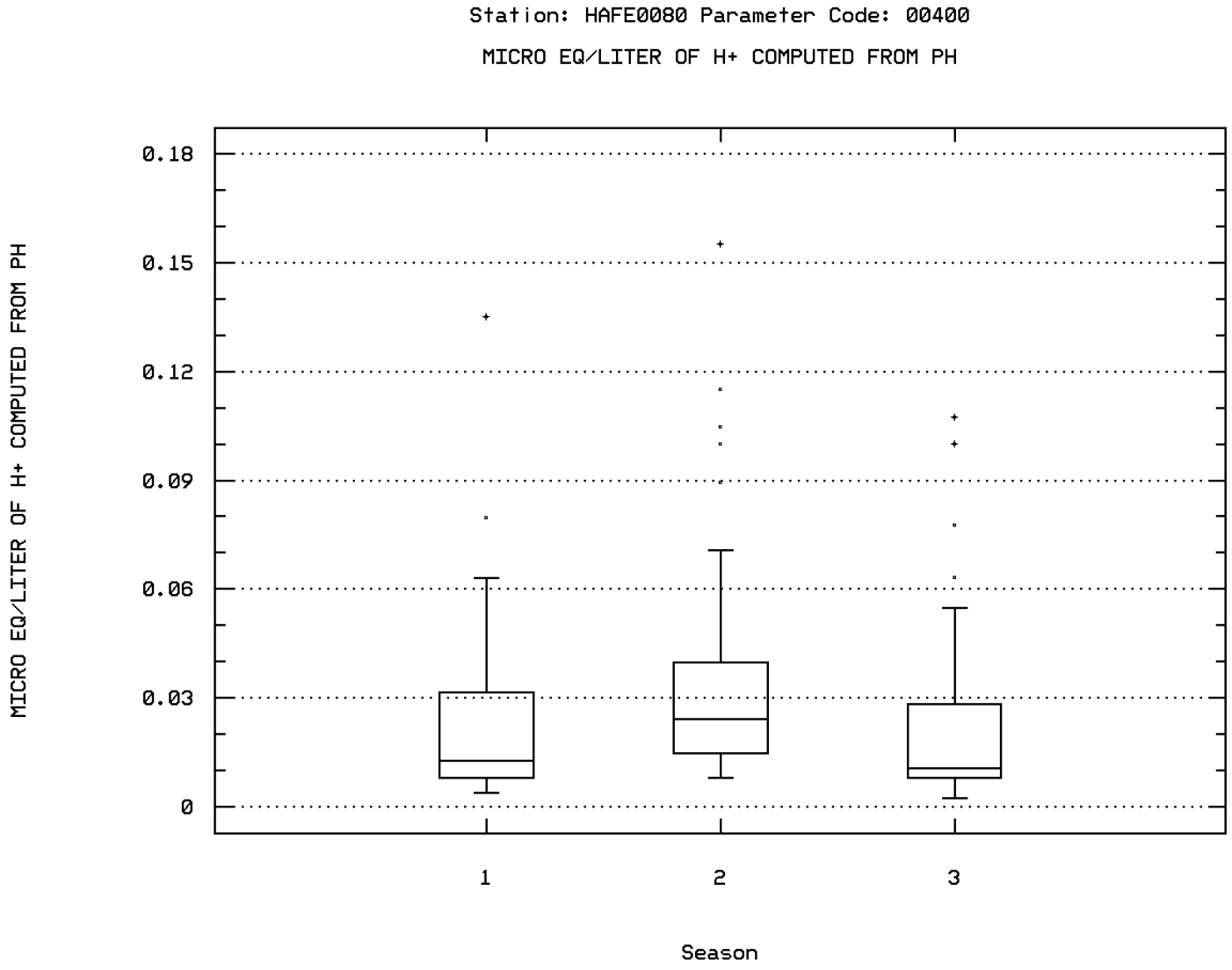
POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00300

OXYGEN, DISSOLVED



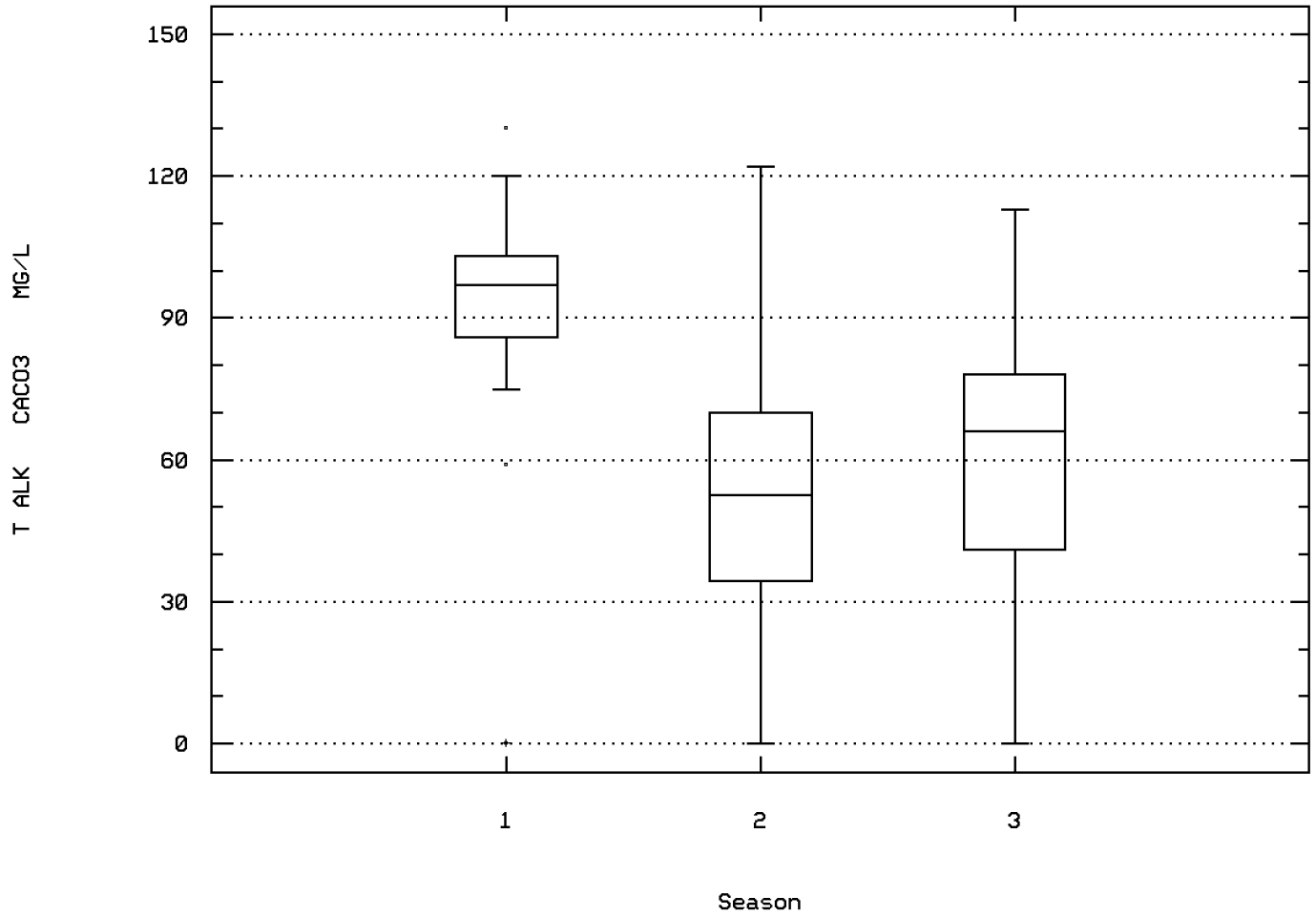
POTOMAC R AT SHEPHERDSTOWN, WV



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00410

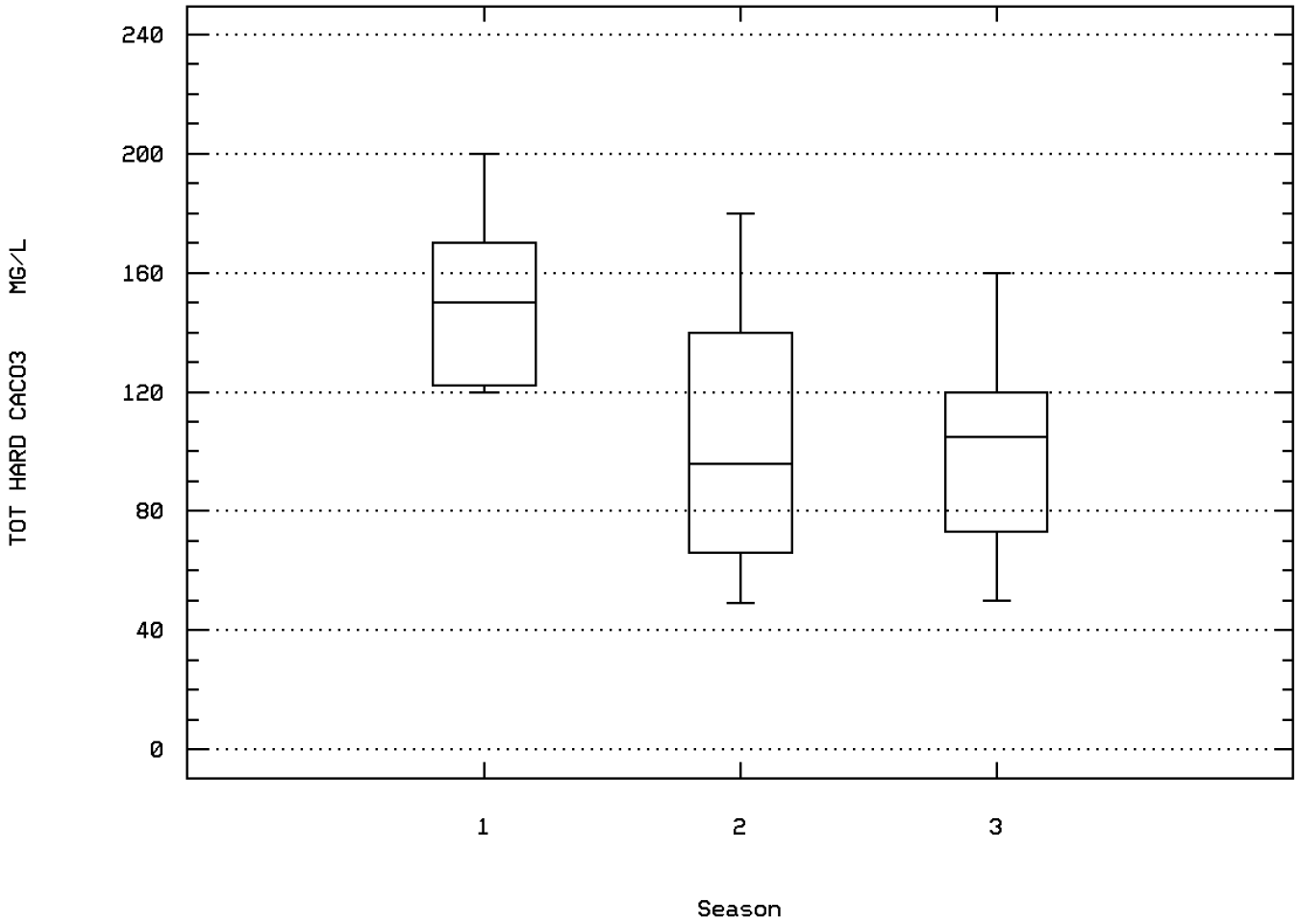
ALKALINITY, TOTAL (MG/L AS CACO3)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00900

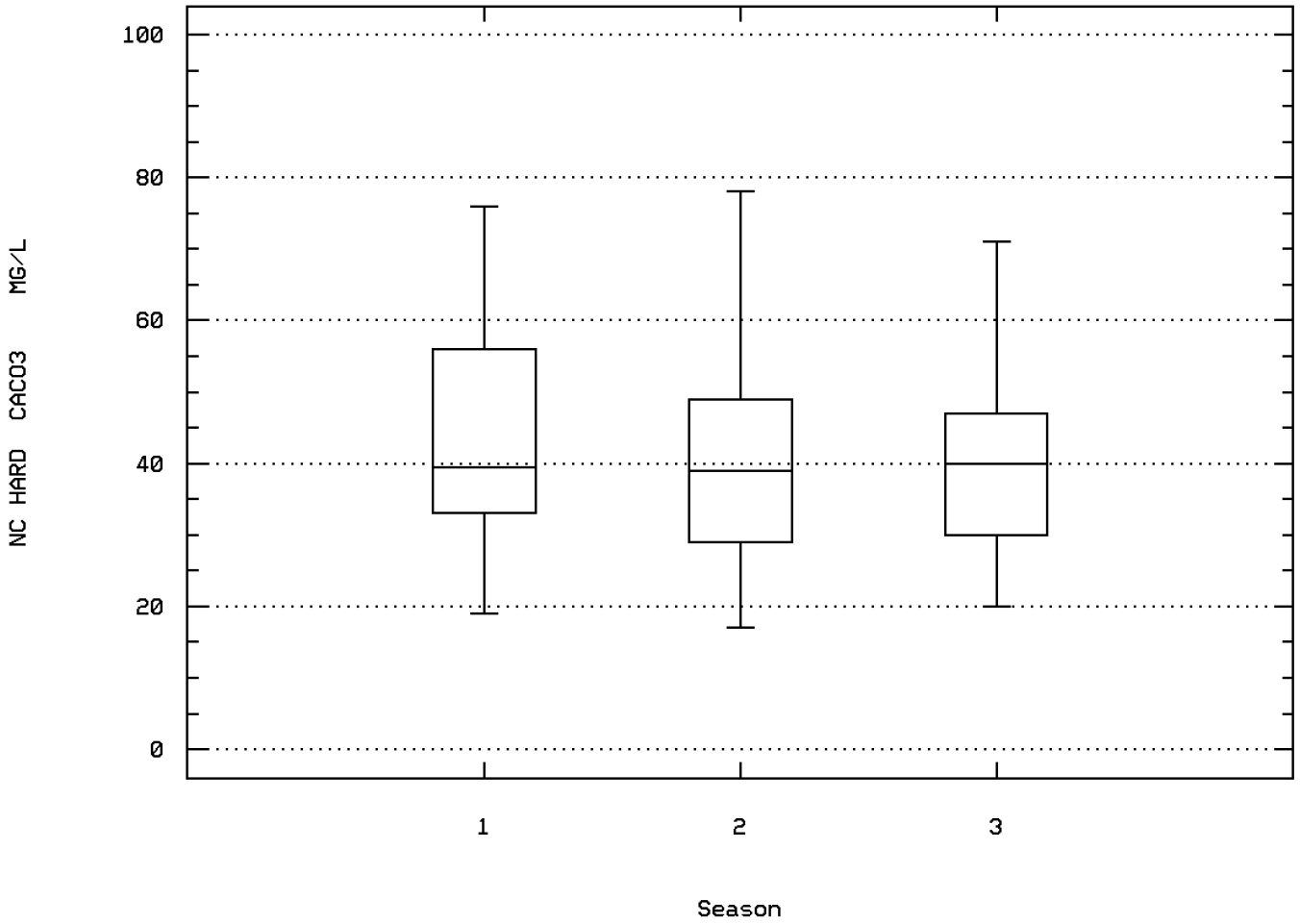
HARDNESS, TOTAL (MG/L AS CACO3)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00902

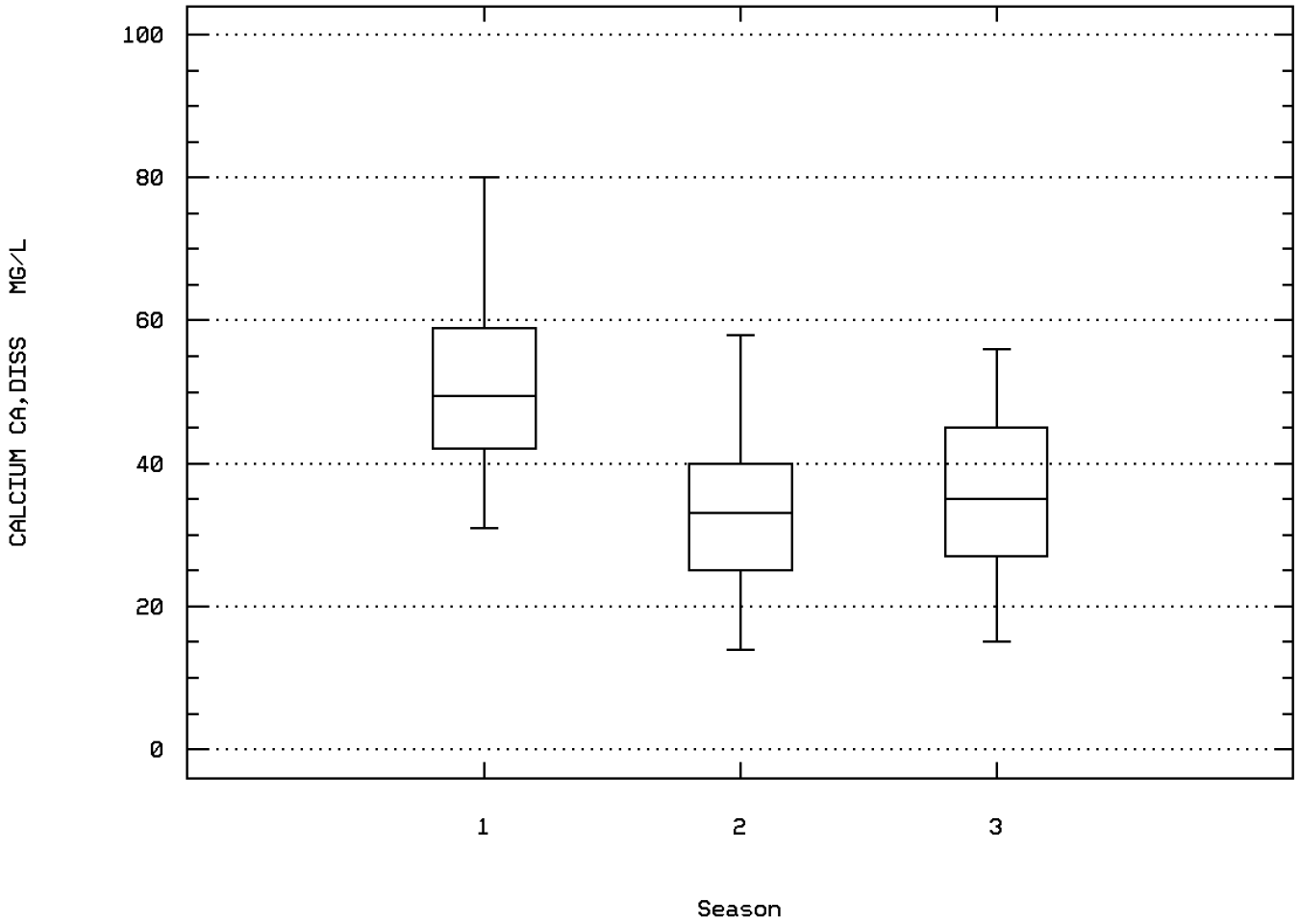
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00915

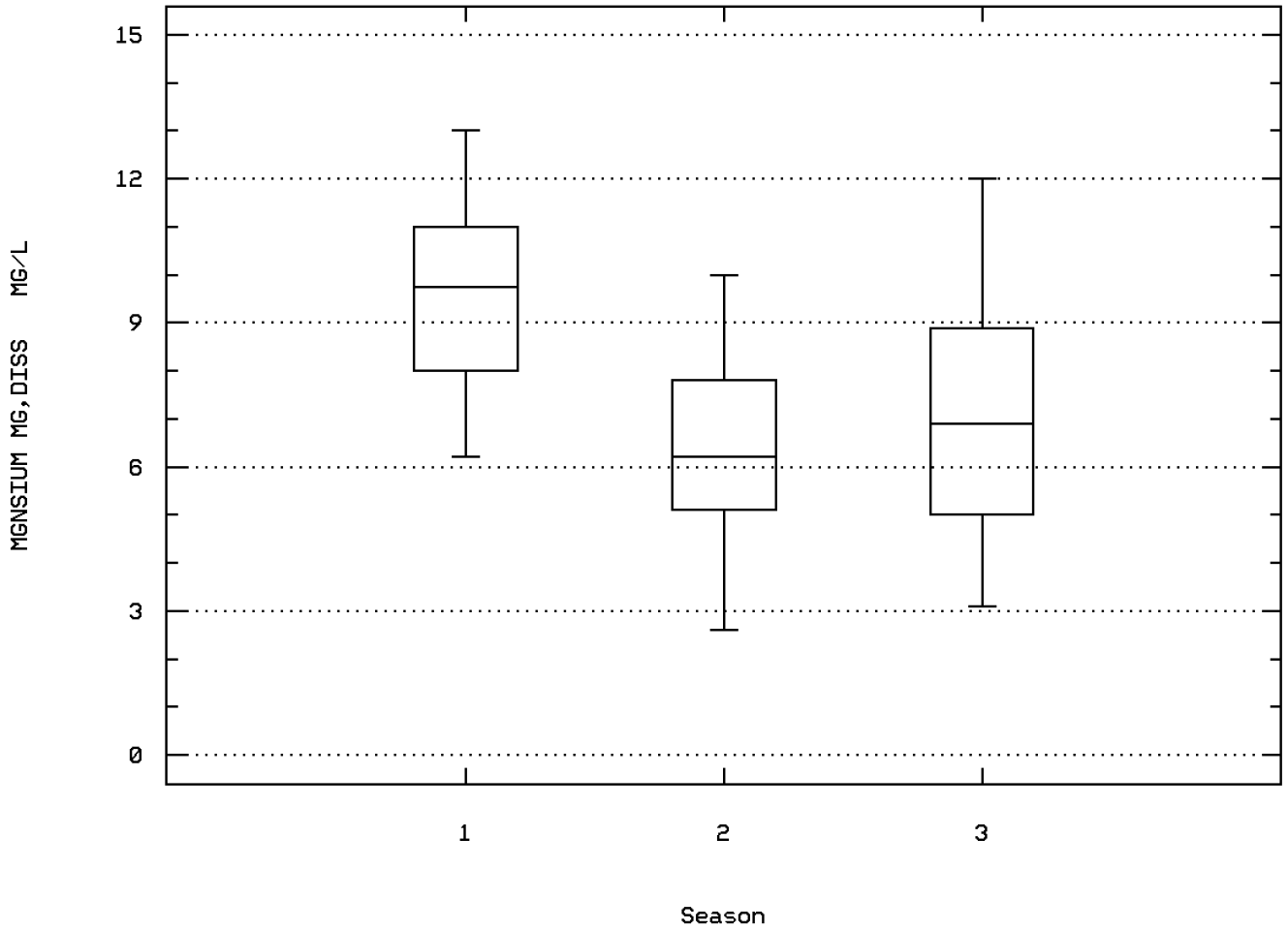
CALCIUM, DISSOLVED (MG/L AS CA)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00925

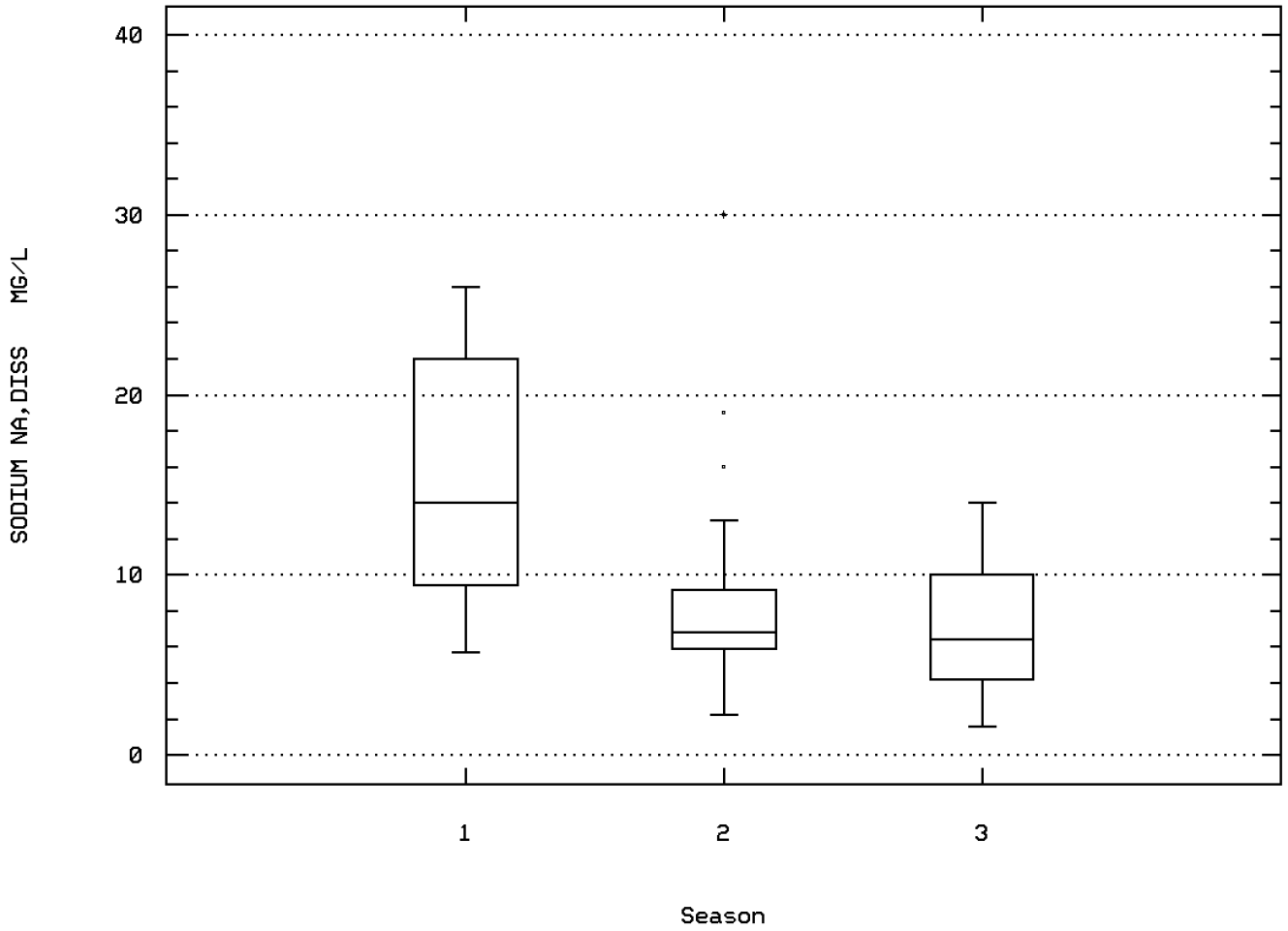
MAGNESIUM, DISSOLVED (MG/L AS MG)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00930

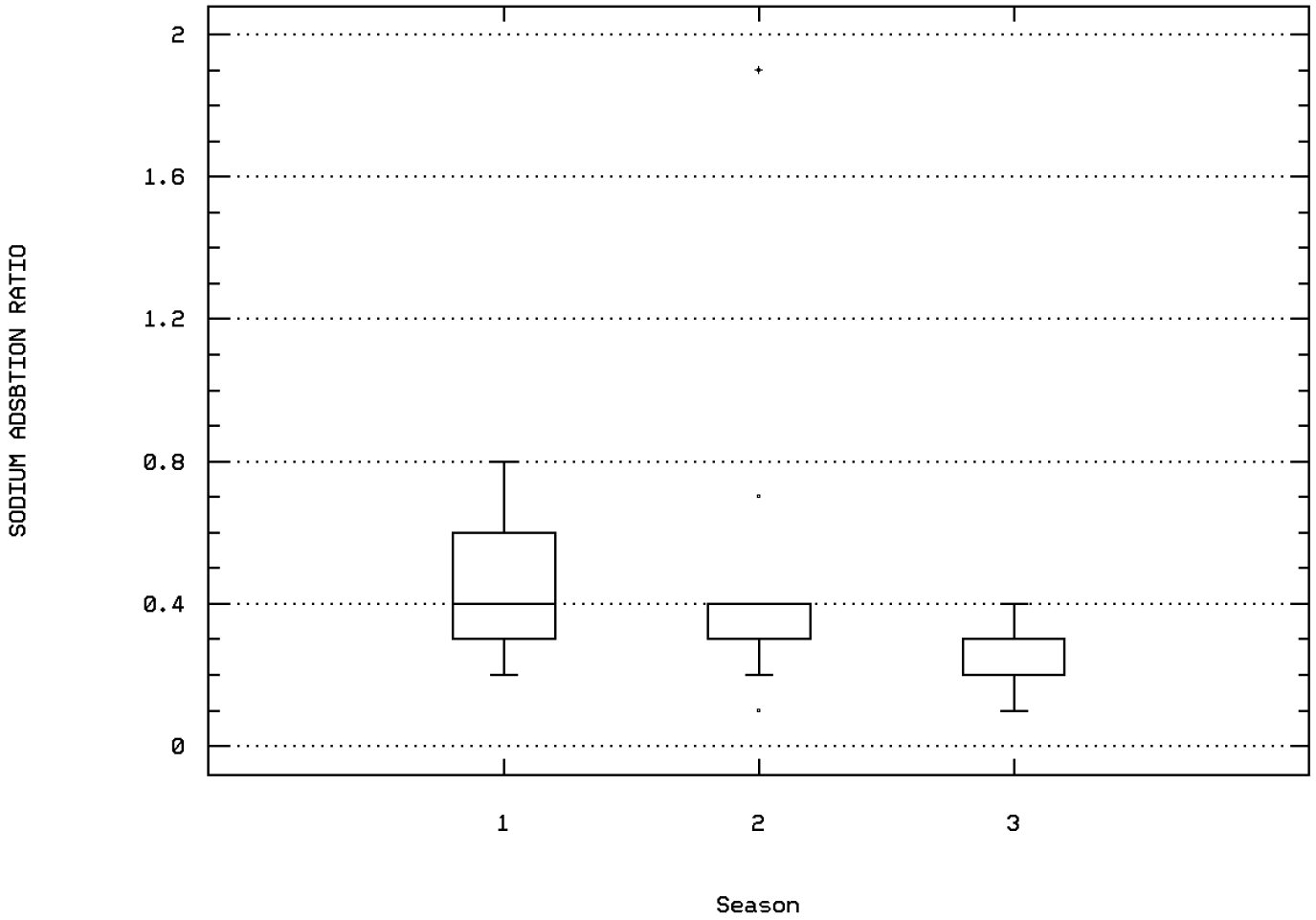
SODIUM, DISSOLVED (MG/L AS NA)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00931

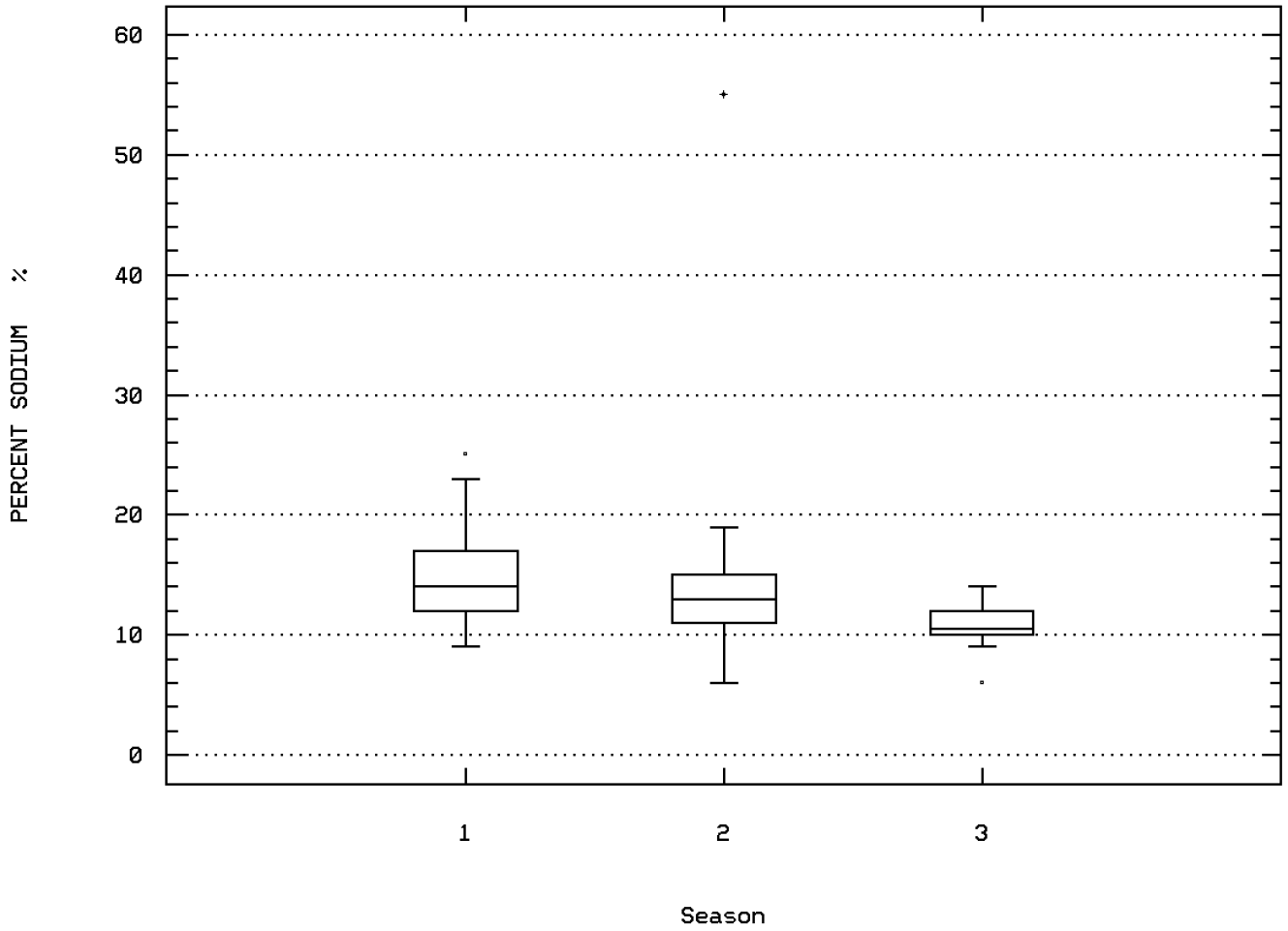
SODIUM ADSORPTION RATIO



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00932

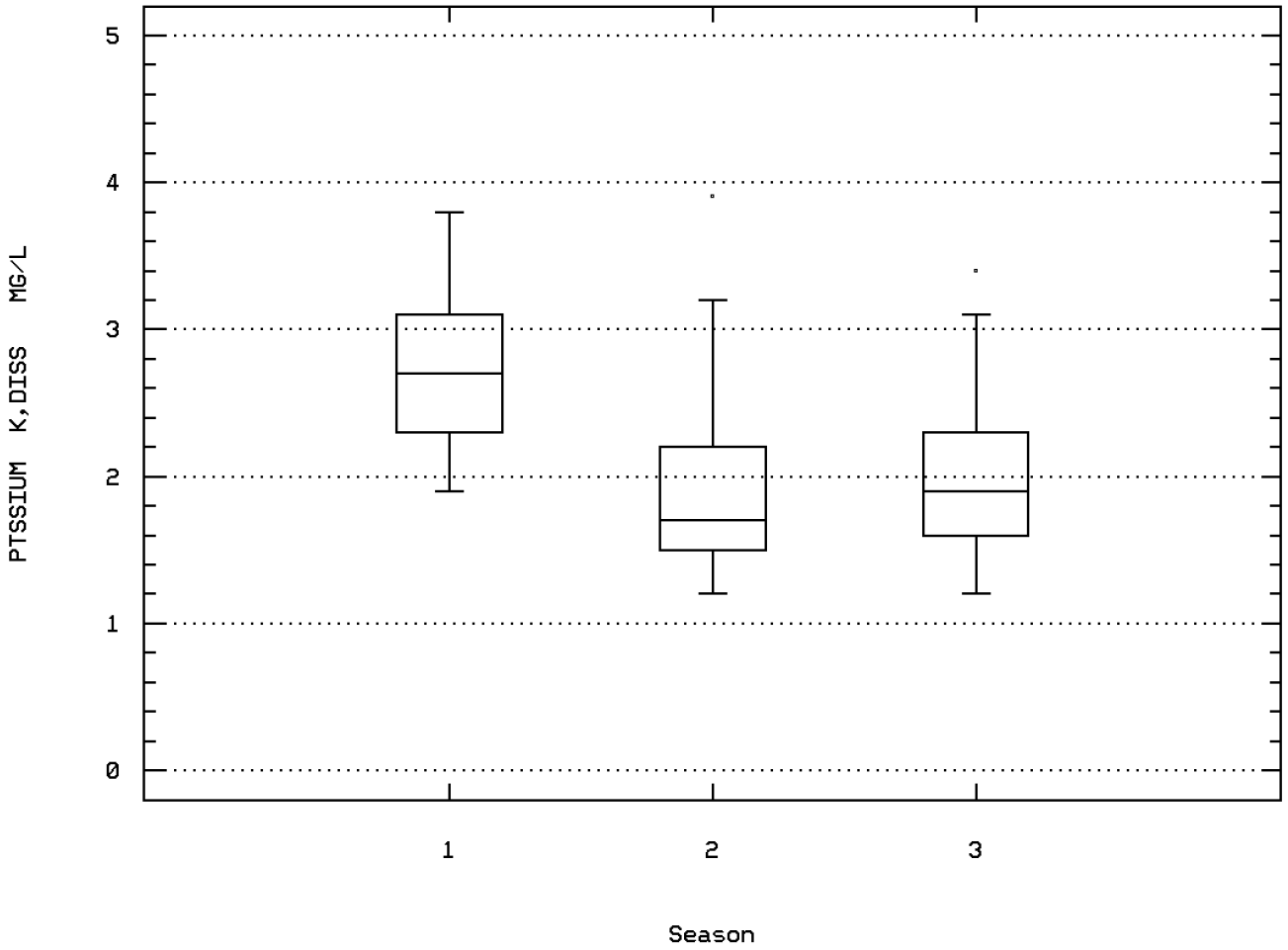
SODIUM, PERCENT



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00935

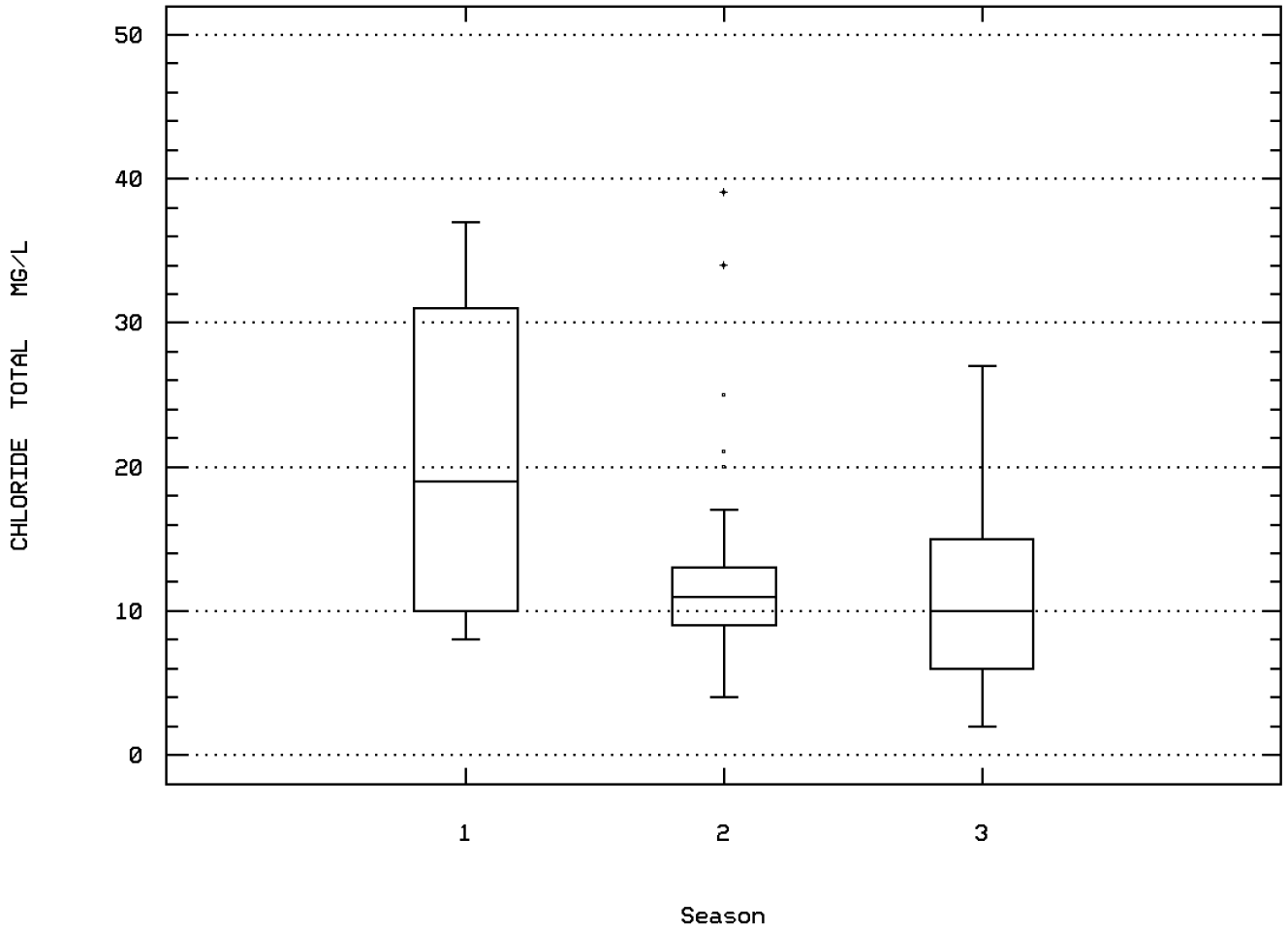
POTASSIUM, DISSOLVED (MG/L AS K)



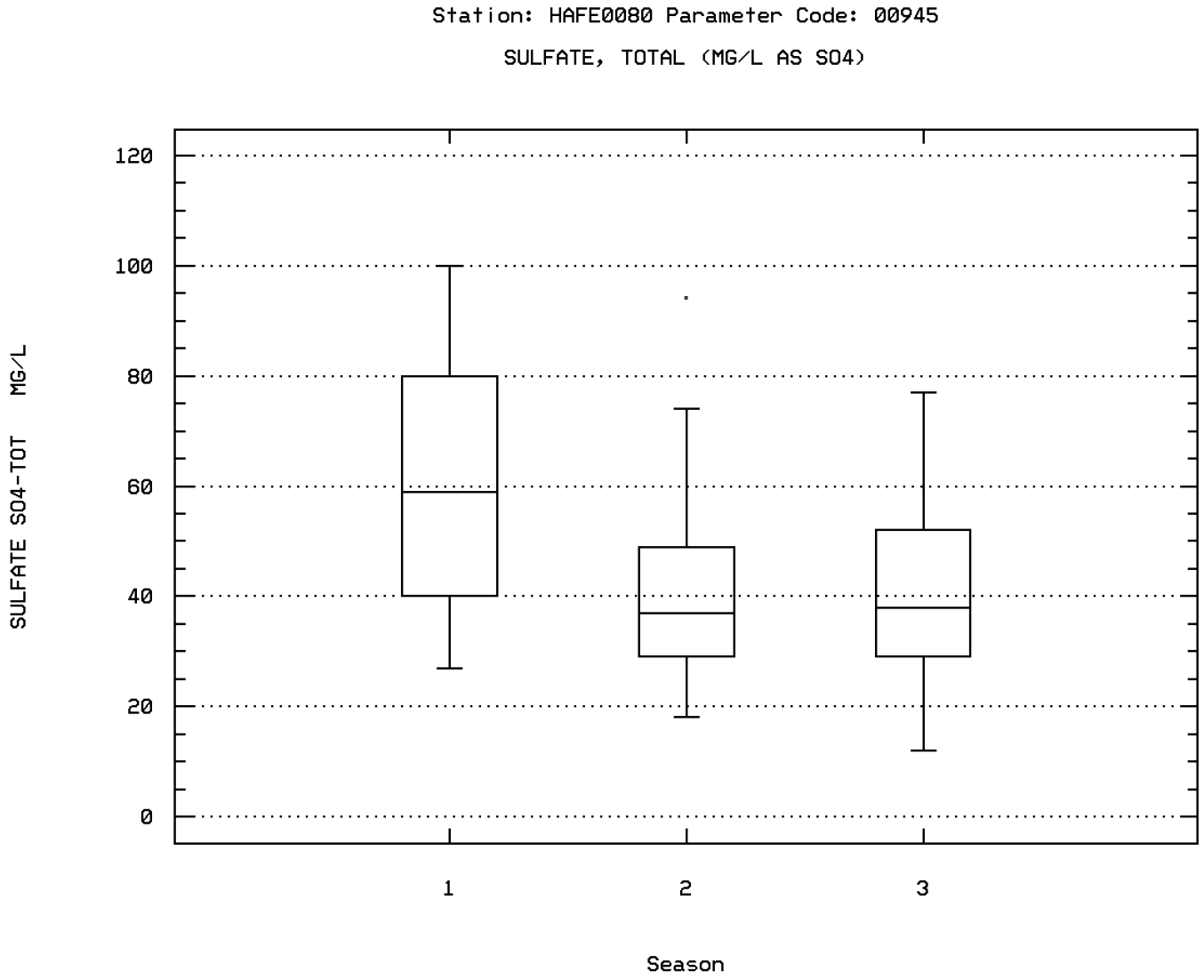
POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



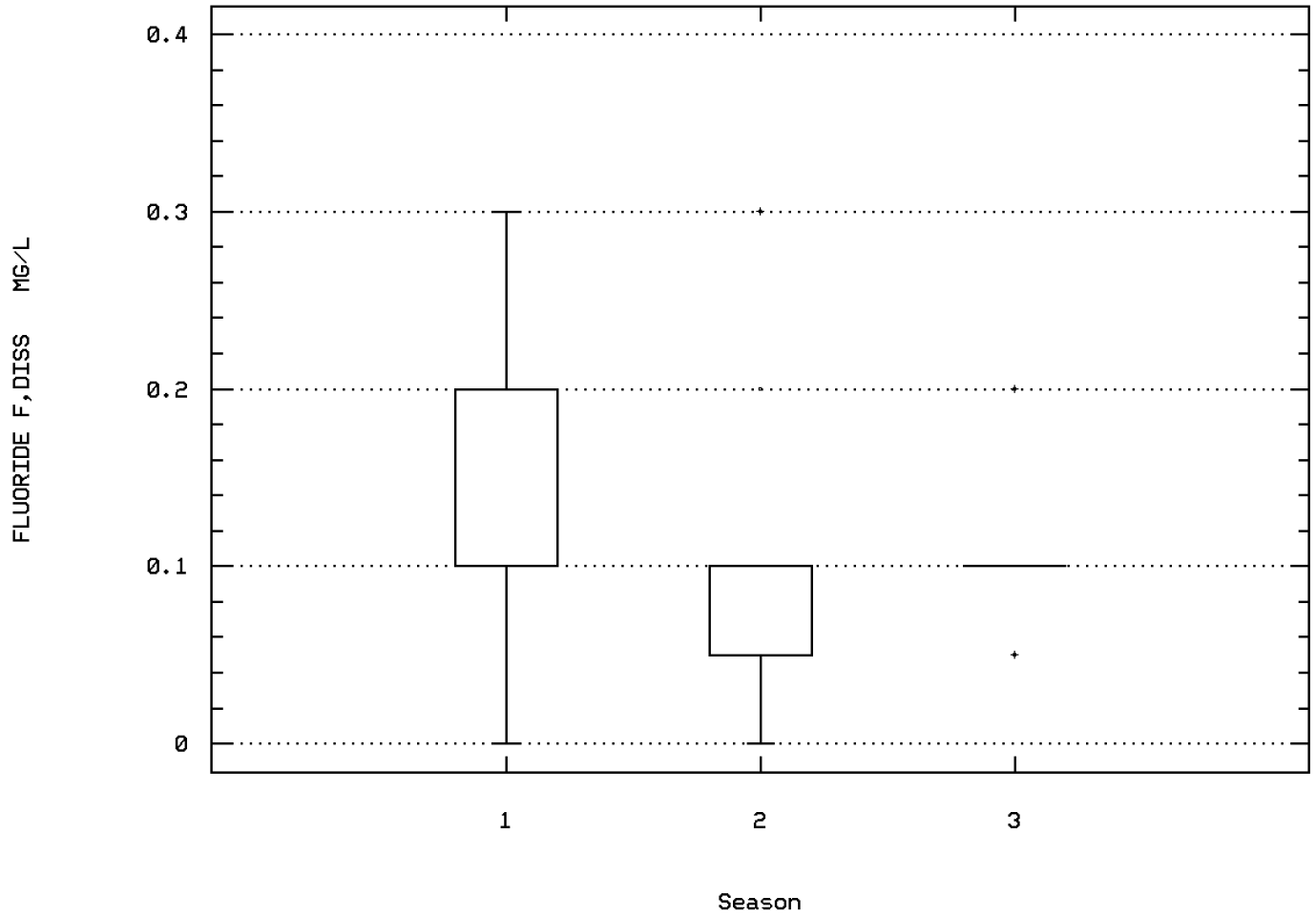
POTOMAC R AT SHEPHERDSTOWN, WV



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00950

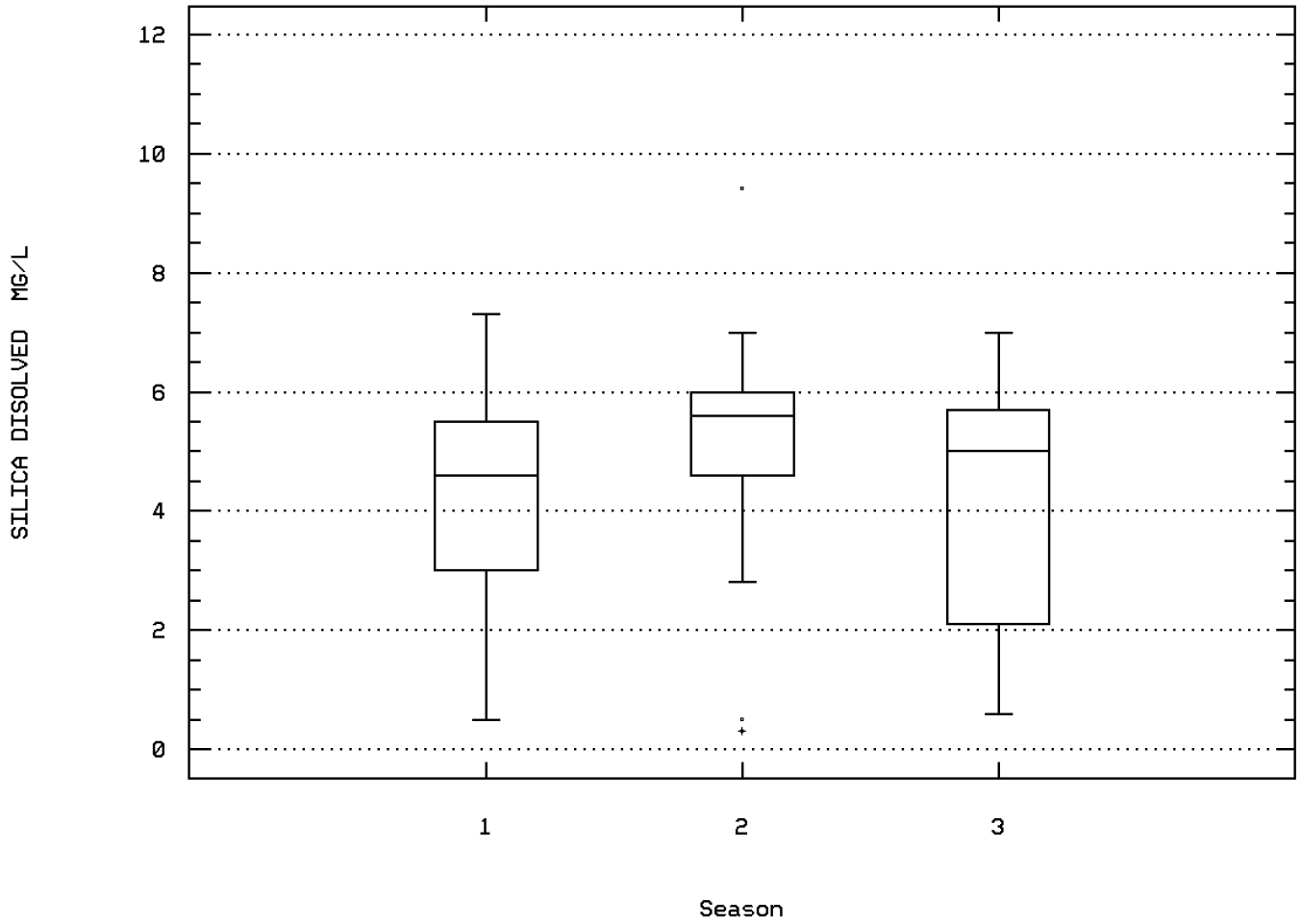
FLUORIDE, DISSOLVED (MG/L AS F)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 00955

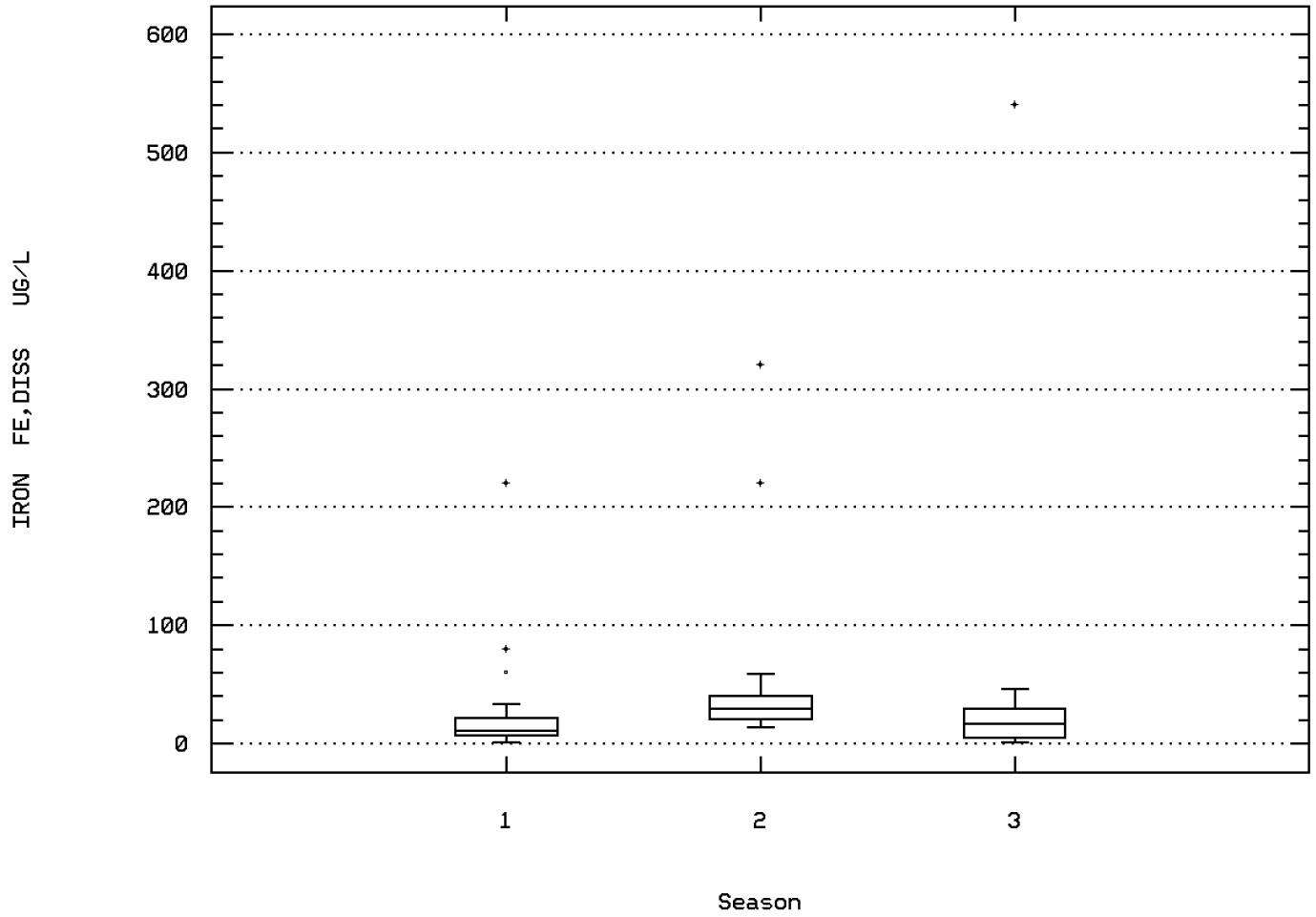
SILICA, DISSOLVED (MG/L AS SI02)



POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 01046

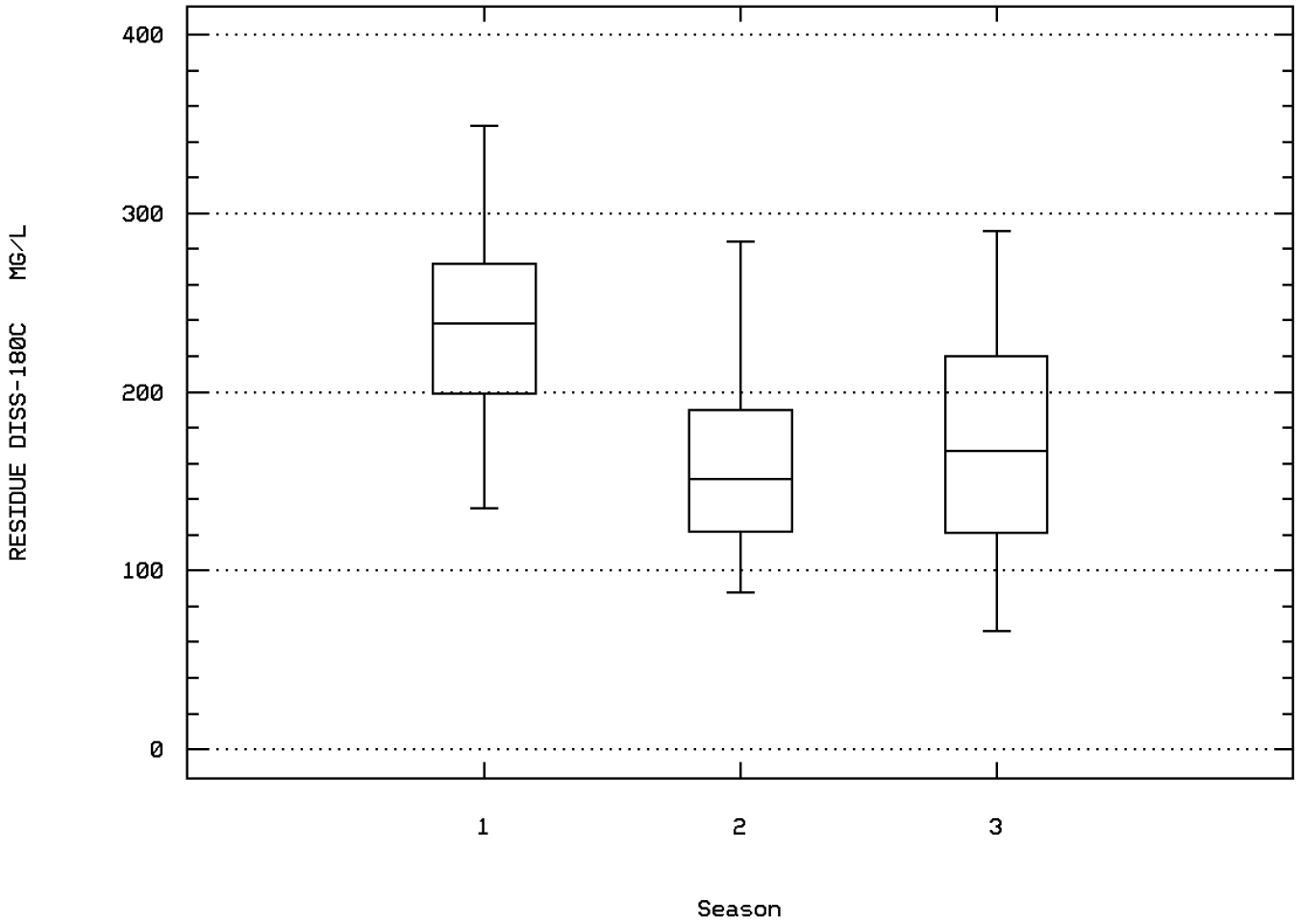
IRON, DISSOLVED (UG/L AS FE)



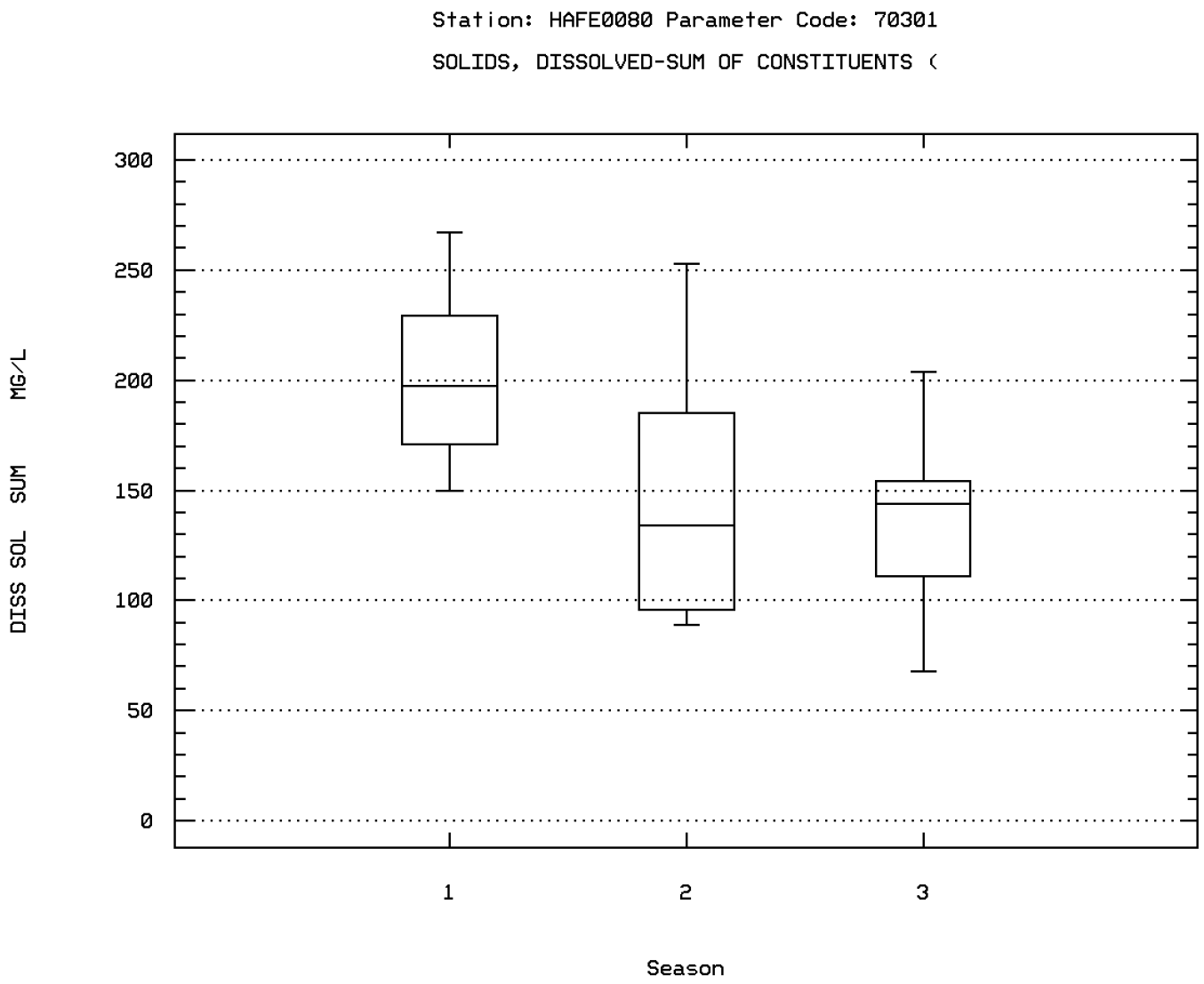
POTOMAC R AT SHEPHERDSTOWN, WV

Station: HAFE0080 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



POTOMAC R AT SHEPHERDSTOWN, WV



POTOMAC R AT SHEPHERDSTOWN, WV

Station Inventory for Station: HAFE0081

NPS Station ID: HAFE0081
LAT/LON: 39.434448/ -77.801949
Agency: 31POTOMA
Date Created: / /
Location:
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POT 1830 /BWQMN 011
RMI-Indexes: 0214001
Within Park Boundary: No
RMI-Miles: 0183.00
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: MID-ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070004009
RF1 Mile Point: 3.660
Distance from RF1: 14.10
On/Off RF1: OFF
RF3 Index: 02070007017600.00
RF3 Mile Point: 4.78
Distance from RF3: 0.07
On/Off RF3:
Description:
AT GAGING STATION BELOW BRIDGE ON MD. RT. 34 USGS-01618000

Parameter Inventory for Station: HAFE0081

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: HAFE0082

NPS Station ID: HAFE0082
LAT/LON: 39.434448/ -77.801949
Agency: 11NATDC
Date Created: 06/01/85
Location: POTOMAC R AT SHEPARDSTOWN
FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): T0703143 /2238
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC R
ECO Region:
RF1 Index: 02070004009
RF1 Mile Point: 0.000
Distance from RF1: 15.80
On/Off RF1: ON
RF3 Index: 02070004022300.00
RF3 Mile Point: 0.99
Distance from RF3: 0.25
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0082

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: HAFE0083

NPS Station ID: HAFE0083 LAT/LON: 39.434976/ -77.802921 Agency: 21MD Date Created: 10/06/79
Location: AT GAGING STA. BELOW BRIDGE ON MD. RT. 34 USGS- FIPS State/County: 24043 MARYLAND/WASHINGTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): POT1830
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC RIVER ECO Region:
RF1 Index: 02070004009 RF1 Mile Point: 3.800 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 02070004001118.71 RF3 Mile Point: 20.51 Distance from RF3: 0.02 On/Off RF3:
Description:
02-14-05-01 POTOMAC RIVER WASHINGTON CO. AREA DRAINAGE (SHENENDOAH RIVER TO LITTLE TONOLOWAY CREEK)
POTOMAC RIVER RIVER MILE IS 183.00 RECEIVING TRIBUTARY IS CHESAPEAKE BAY
AT GAGING STA. BELOW BRIDGE ON MD. RT. 34 USGS-01618000

Parameter Inventory for Station: HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/18/74-06/02/81	71	21.5	19.261	27.3	0.	45.523	6.747	7.2	15.5	24.8	25.66
00023	SAMPLE WEIGHT IN POUNDS	10/01/80-10/01/82	8	0.39	0.668	1.36	0.22	0.271	0.52	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	10/01/80-10/01/82	8	9.6	10.838	14.7	7.8	9.78	3.127	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	03/18/74-12/02/80	52	2979.5	3706.192	9795.	618.	6824468.237	2612.368	997.5	1345.	5531.	8124.1
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/18/74-06/02/81	60	7.9	12.375	75.	2.	208.424	14.437	3.82	5.125	12.5	19.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	76	297.5	301.461	550.	108.	10093.425	100.466	186.3	221.25	370.	452.7
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	78	9.75	9.858	13.8	5.	3.373	1.837	7.6	8.575	11.175	12.42
00340	COD, .25N K2CR2O7 MG/L	07/29/74-05/31/78	2	11.5	11.5	17.	6.	60.5	7.778	**	**	**	**
00400	PH (STANDARD UNITS)	05/20/74-06/02/81	47	7.9	7.815	9.1	6.1	0.38	0.617	6.98	7.4	8.3	8.52
00400	CONVERTED PH (STANDARD UNITS)	05/20/74-06/02/81	47	7.9	7.317	9.1	6.1	0.634	0.796	6.98	7.4	8.3	8.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/74-06/02/81	47	0.013	0.048	0.794	0.001	0.015	0.123	0.003	0.005	0.04	0.105
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	55	7.8	7.762	9.	6.9	0.265	0.514	7.	7.4	8.2	8.44
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	55	7.8	7.501	9.	6.9	0.334	0.578	7.	7.4	8.2	8.44
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	55	0.016	0.032	0.126	0.001	0.001	0.033	0.004	0.006	0.04	0.1
00480	SALINITY - PARTS PER THOUSAND	03/18/74-09/17/79	51	0.2	0.157	0.3	0.01	0.004	0.064	0.1	0.1	0.2	0.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/74-06/02/81	67	10.	14.425	172.	0.5	590.729	24.305	1.8	5.	13.	24.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/74-06/02/81	38	0.03	0.064	0.6	0.005	0.016	0.125	0.01	0.02	0.05	0.102
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	63	0.011	0.017	0.25	0.001	0.001	0.035	0.001	0.006	0.016	0.024
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	63	0.9	1.019	3.5	0.05	0.385	0.621	0.36	0.73	1.17	1.792
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/74-06/02/81	38	0.42	0.435	1.08	0.08	0.073	0.271	0.12	0.198	0.665	0.759
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/18/74-06/02/81	67	0.05	0.091	0.45	0.005	0.011	0.104	0.01	0.04	0.09	0.23
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/30/74-04/08/81	40	12.5	13.58	44.	0.5	123.528	11.114	1.42	4.125	19.875	32.65
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/01/80-10/01/82	8	0.1	0.101	0.15	0.025	0.002	0.041	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/18/74-06/02/81	51	2300.	25101.686	460000.	23.	6127934916.66	78281.127	430.	930.	7500.	39000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/18/74-06/02/81	51	3.362	3.454	5.663	1.362	0.727	0.853	2.633	2.968	3.875	4.579
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2841.618								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	51	230.	7450.676	240000.	1.51221	928709.878	34956.097	39.8	93.	930.	4780.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	51	2.362	2.515	5.38	0.176	0.929	0.964	1.6	1.968	2.968	3.679
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			327.041								
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	10/01/80-10/01/82	8	0.054	0.069	0.159	0.027	0.002	0.047	**	**	**	**

** - Less 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: HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/01/80-10/01/82	8	0.016	0.022	0.05	0.005	0.	0.018	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	10/01/80-10/01/82	8 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/01/80-10/01/82	8 ##	0.001	0.002	0.007	0.001	0.	0.002	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	10/01/82-10/01/82	2	3.8	3.8	4.9	2.7	2.42	1.556	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	10/01/80-10/01/82	8 ##	0.001	0.002	0.01	0.001	0.	0.003	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/01/80-10/01/82	8	0.002	0.005	0.02	0.001	0.	0.007	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/01/80-10/01/82	8	0.01	0.021	0.05	0.004	0.	0.019	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/01/80-10/01/82	8	0.002	0.003	0.01	0.001	0.	0.003	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/74-06/02/81	61	186.	203.246	390.	109.	4836.789	69.547	123.6	140.	258.	307.8
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/80-10/01/82	8	0.105	0.125	0.29	0.04	0.007	0.082	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	8	1.51	1.36	2.5	0.25	0.762	0.873	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	8	0.495	0.529	0.95	0.04	0.07	0.265	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	8	12.95	13.589	19.7	9.81	11.436	3.382	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/01/80-10/01/82	8 ##	0.25	0.4	1.5	0.05	0.226	0.476	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/01/80-10/01/82	7	0.21	0.233	0.41	0.17	0.007	0.083	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/01/80-10/01/82	8	4.5	4.125	5.	3.	0.982	0.991	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82004	DACTHAL IN TISSUE SAMPLE WET WEIGHT MG/KG	10/01/80-10/01/82	8 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	60	3	0.05	16	0	0.00	14	2	0.14	30	1	0.03			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	78	0	0.00	19	0	0.00	16	0	0.00	43	0	0.00			
00400	PH	Other-Hi Lim.	9.	47	1	0.02	14	0	0.00	7	0	0.00	26	1	0.04			
		Other-Lo Lim.	6.5	47	2	0.04	14	0	0.00	7	2	0.29	26	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	55	1	0.02	13	1	0.08	14	0	0.00	28	0	0.00			
		Other-Lo Lim.	6.5	55	0	0.00	13	0	0.00	14	0	0.00	28	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	63	0	0.00	17	0	0.00	16	0	0.00	30	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	63	0	0.00	17	0	0.00	16	0	0.00	30	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	51	33	0.65	11	8	0.73	13	10	0.77	27	15	0.56			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	51	33	0.65	11	9	0.82	13	6	0.46	27	18	0.67			

& - 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 1974 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	15	300.	320.467	550.	190.	11695.41	108.145	193.	220.	395.	490.
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	15	10.	10.1	13.	7.9	1.983	1.408	8.44	9.	11.	12.76

** - 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

Annual Analysis for 1975 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	7	265.	279.286	400.	210.	3561.905	59.682	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	7	9.8	9.771	13.6	7.2	5.579	2.362	**	**	**	**

** - Less 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 HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	9	300.	298.444	350.	225.	1458.028	38.184	225.	275.	327.5	350.
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	10	9.7	9.21	11.6	5.	4.539	2.13	5.2	7.6	11.025	11.55

** - Less 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 HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	14	442.5	408.214	500.	120.	10469.104	102.319	215.	364.	479.75	497.5
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	14	9.4	9.85	13.	7.9	2.501	1.582	8.05	8.65	11.45	12.5

** - 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 1978 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	13	305.	291.154	379.	189.	4719.641	68.7	199.	222.5	360.	375.4
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	14	9.75	9.893	13.	7.2	4.844	2.201	7.2	7.85	12.25	13.

** - Less 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 HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	7	210.	215.286	320.	108.	5789.238	76.087	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	7	9.3	9.929	12.3	8.6	2.086	1.444	**	**	**	**

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

Annual Analysis for 1980 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	7	242.	251.857	334.	158.	4134.81	64.302	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	7	8.9	9.8	13.8	7.1	6.147	2.479	**	**	**	**

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

Annual Analysis for 1981 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	4	177.5	173.25	208.	130.	1042.25	32.284	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	4	10.4	10.6	12.4	9.2	1.787	1.337	**	**	**	**

** - Less 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 10/31 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/18/74-06/02/81	19	24.1	22.2	26.3	11.	17.154	4.142	15.3	19.6	25.	25.5
00060	FLOW, STREAM, MEAN DAILY CFS	03/18/74-12/02/80	14	1430.	2248.357	7840.	618.	4133836.093	2033.184	674.5	1033.75	2809.25	6477.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/18/74-06/02/81	16	7.75	9.225	18.	3.4	17.765	4.215	3.82	5.95	12.5	15.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	19	370.	369.474	495.	215.	7235.263	85.06	253.	305.	450.	494.
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	19	9.6	9.858	13.8	7.6	3.337	1.827	7.6	8.3	11.4	13.
00400	PH (STANDARD UNITS)	05/20/74-06/02/81	14	8.15	8.079	8.9	6.9	0.291	0.539	7.1	7.825	8.425	8.75
00400	CONVERTED PH (STANDARD UNITS)	05/20/74-06/02/81	14	8.125	7.714	8.9	6.9	0.434	0.659	7.1	7.825	8.425	8.75
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/74-06/02/81	14	0.008	0.019	0.126	0.001	0.001	0.033	0.002	0.004	0.016	0.088
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	13	8.2	8.062	9.	7.1	0.289	0.538	7.22	7.5	8.4	8.8
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	13	8.2	7.754	9.	7.1	0.392	0.626	7.22	7.5	8.4	8.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	13	0.006	0.018	0.079	0.001	0.001	0.023	0.002	0.004	0.032	0.064
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/74-06/02/81	17	8.	9.059	24.	1.	34.559	5.879	1.8	4.5	12.	17.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/74-06/02/81	12	0.02	0.03	0.07	0.01	0.	0.018	0.013	0.02	0.048	0.064
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	17	0.011	0.011	0.023	0.001	0.	0.007	0.001	0.005	0.016	0.021
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	17	0.79	0.741	1.44	0.05	0.127	0.357	0.138	0.51	0.93	1.336
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/74-06/02/81	13	0.43	0.427	1.08	0.08	0.097	0.312	0.096	0.12	0.625	0.984
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/18/74-06/02/81	17	0.06	0.091	0.45	0.025	0.01	0.098	0.037	0.05	0.085	0.202
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/30/74-04/08/81	12	18.5	17.708	25.	8.	26.294	5.128	9.2	14.	20.875	25.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/18/74-06/02/81	11	4300.	50590.	460000.	430.	18609964560.	136418.344	530.	930.	23000.	376600.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/18/74-06/02/81	11	3.633	3.763	5.663	2.633	0.779	0.883	2.7	2.968	4.362	5.457
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			5796.558								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	11	430.	7849.364	75000.	93.	497768714.455	22310.731	98.4	210.	2300.	60860.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	11	2.633	2.927	4.875	1.968	0.717	0.847	1.991	2.322	3.362	4.627
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			845.636								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/74-06/02/81	16	276.5	266.	390.	131.	5488.267	74.083	158.3	206.	325.	373.2

** - 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: 11/01 to 3/20 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/18/74-06/02/81	11	6.8	7.836	18.9	0.	28.329	5.322	0.6	3.8	13.	17.72
00060	FLOW, STREAM, MEAN DAILY CFS	03/18/74-12/02/80	11	6050.	5202.909	9795.	910.	9833532.691	3135.846	923.	1260.	8080.	9464.6
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/18/74-06/02/81	14	10.	17.771	75.	3.8	423.838	20.587	3.9	5.85	20.5	62.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	15	225.	249.6	550.	108.	14802.829	121.667	115.2	133.	315.	457.
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	16	11.5	11.488	13.6	9.7	1.452	1.205	9.77	10.45	12.4	13.18
00400	PH (STANDARD UNITS)	05/20/74-06/02/81	7	7.4	7.271	8.3	6.1	0.662	0.814	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/20/74-06/02/81	7	7.4	6.726	8.3	6.1	1.009	1.004	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/74-06/02/81	7	0.04	0.188	0.794	0.005	0.084	0.289	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	14	7.3	7.307	7.9	7.	0.075	0.273	7.	7.075	7.425	7.8
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	14	7.289	7.238	7.9	7.	0.08	0.282	7.	7.075	7.425	7.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	14	0.051	0.058	0.1	0.013	0.001	0.03	0.016	0.038	0.085	0.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/74-06/02/81	16	8.	23.375	172.	1.	2099.583	45.821	1.7	3.5	11.25	119.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/74-06/02/81	8	0.035	0.111	0.6	0.02	0.04	0.199	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	16	0.011	0.032	0.25	0.001	0.004	0.067	0.002	0.004	0.016	0.173
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	16	1.305	1.41	3.24	0.4	0.519	0.721	0.47	0.975	1.825	2.624
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/74-06/02/81	8	0.375	0.461	1.05	0.13	0.092	0.303	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/18/74-06/02/81	16	0.045	0.076	0.32	0.005	0.008	0.088	0.023	0.03	0.075	0.285
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/30/74-04/08/81	8	5.5	8.45	19.5	1.1	41.249	6.423	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/18/74-06/02/81	13	2300.	5731.	23000.	43.	62376246.333	7897.863	397.8	1215.	5900.	23000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/18/74-06/02/81	13	3.362	3.386	4.362	1.633	0.478	0.691	2.167	3.072	3.754	4.362
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2432.8								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	13	150.	312.038	930.	1.5	121136.936	348.047	10.1	43.	590.	930.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	13	2.176	2.075	2.968	0.176	0.635	0.797	0.65	1.633	2.754	2.968
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			118.978								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/74-06/02/81	15	138.	161.533	281.	123.	2560.552	50.602	124.8	131.	161.	270.8

** - 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: 3/21 to 7/31 - Station HAFE0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/18/74-06/02/81	41	22.	20.963	27.3	9.5	21.896	4.679	14.1	18.75	24.95	26.08
00060	FLOW, STREAM, MEAN DAILY CFS	03/18/74-12/02/80	27	3660.	3852.333	9360.	1050.	5423088.462	2328.753	1300.	2070.	5020.	8415.8
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/18/74-06/02/81	30	7.25	11.537	74.	2.	204.59	14.303	3.43	4.95	12.5	19.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/18/74-06/02/81	42	274.	289.214	500.	175.	6951.246	83.374	190.6	218.5	340.75	434.5
00300	OXYGEN, DISSOLVED MG/L	03/18/74-06/02/81	43	8.9	9.251	13.	5.	2.847	1.687	7.2	8.2	10.2	11.84
00400	PH (STANDARD UNITS)	05/20/74-06/02/81	26	7.8	7.819	9.1	7.	0.268	0.518	7.21	7.4	8.125	8.56
00400	CONVERTED PH (STANDARD UNITS)	05/20/74-06/02/81	26	7.8	7.581	9.1	7.	0.327	0.572	7.21	7.4	8.125	8.56
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/74-06/02/81	26	0.016	0.026	0.1	0.001	0.001	0.027	0.003	0.008	0.04	0.065
00403	PH, LAB, STANDARD UNITS SU	03/18/74-12/02/80	28	7.85	7.85	8.6	6.9	0.206	0.454	7.	7.625	8.1	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	03/18/74-12/02/80	28	7.847	7.603	8.6	6.9	0.27	0.519	7.	7.625	8.1	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/18/74-12/02/80	28	0.014	0.025	0.126	0.003	0.001	0.032	0.003	0.008	0.024	0.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/74-06/02/81	34	11.	12.897	66.	0.5	154.269	12.421	1.	4.75	15.25	25.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/74-06/02/81	18	0.035	0.065	0.55	0.005	0.016	0.125	0.01	0.01	0.05	0.163
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	30	0.011	0.013	0.058	0.001	0.	0.012	0.001	0.006	0.016	0.025
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/18/74-06/02/81	30	0.89	0.967	3.5	0.23	0.352	0.593	0.342	0.763	1.083	1.315
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/74-06/02/81	17	0.42	0.429	0.75	0.1	0.056	0.237	0.132	0.195	0.695	0.75
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/18/74-06/02/81	34	0.05	0.097	0.45	0.005	0.013	0.116	0.008	0.04	0.14	0.31
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/30/74-04/08/81	20	7.5	13.155	44.	0.5	201.104	14.181	1.04	1.95	20.5	39.4
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	03/18/74-06/02/81	27	2300.	24044.185	240000.	23.	4134395773.695	64299.267	226.	490.	4300.	134000.
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	03/18/74-06/02/81	27	3.362	3.36	5.38	1.362	0.826	0.909	2.354	2.69	3.633	5.105
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			2290.397								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	27	230.	10725.37	240000.	2.	2121674096.627	46061.634	35.8	93.	2300.	12040.
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	03/18/74-06/02/81	27	2.362	2.558	5.38	0.301	1.048	1.024	1.545	1.968	3.362	4.047
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			361.366								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/74-06/02/81	30	185.5	190.633	308.	109.	2694.999	51.913	112.6	165.75	219.	266.5

** - 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 Inventory for Station: HAFE0084

NPS Station ID: HAFE0084
LAT/LON: 39.393059/ -77.808616
Agency: 112WRD
Date Created: 06/30/76
Location: RATTLESNAKE RUN NR SHEPARDSTOWN
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 392350077483101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 02070007000203.89
RF3 Mile Point: 6.45
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/02/88	2	17.5	17.5	24.	11.	84.5	9.192	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/02/88-08/02/88	1	752.	752.	752.	752.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/02/88	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/02/88	2	380.	380.	500.	260.	28800.	169.706	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/02/88-08/02/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/74-08/02/88	2	7.55	7.55	7.6	7.5	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/74-08/02/88	2	7.547	7.547	7.6	7.5	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/74-08/02/88	2	0.028	0.028	0.032	0.025	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/02/88-08/02/88	1	264.	264.	264.	264.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/02/88-08/02/88	1	382.	382.	382.	382.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/02/88-08/02/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	1	0.83	0.83	0.83	0.83	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/02/88-08/02/88	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/02/88-08/02/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/02/88	2	92.5	92.5	98.	87.	60.5	7.778	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/02/88	2	14.	14.	15.	13.	2.	1.414	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/02/88	2	7.5	7.5	11.	4.	24.5	4.95	**	**	**	**

** - Less 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: HAFE0084

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0084

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0085

NPS Station ID: HAFE0085
LAT/LON: 39.253615/ -77.815837
Agency: 1113SHWQ
Date Created: / /
Location: SHEN.R. RTE 9 BR BLOOMERY
FIPS State/County: 51000 VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POTOMAC 005 /005 /SHEN M-3
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 8.550
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000307.58
RF3 Mile Point: 7.94
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/67-06/16/67	9	25.5	26.111	28.5	24.	2.424	1.557	24.	25.	27.5	28.5
00300	OXYGEN, DISSOLVED MG/L	06/14/67-06/16/67	9	6.6	7.533	11.3	5.	4.895	2.212	5.	5.55	9.5	11.3
00310	BOD, 5 DAY, 20 DEG C MG/L	06/14/67-06/16/67	9	7.7	8.033	10.8	5.2	3.465	1.861	5.2	6.5	9.65	10.8
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	06/14/67-06/15/67	5	560.	2168.	9180.	130.	15416170.	3926.343	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	06/14/67-06/15/67	5	2.748	2.82	3.963	2.114	0.49	0.7	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			661.13								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/14/67-06/15/67	5 ##	10.	16.	40.	10.	180.	13.416	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/14/67-06/15/67	5 ##	1.	1.12	1.602	1.	0.072	0.269	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			13.195								

** - Less 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: HAFE0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00							9	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	5	1	0.20							5	1	0.20			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	5	0	0.00							5	0	0.00			

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

Station Inventory for Station: HAFE0086

NPS Station ID: HAFE0086
LAT/LON: 39.253615/ -77.815837
Agency: 1113PPWQ
Date Created: / /
Location: SHEN.R. RTE 9 BR E BLOOMERY
FIPS State/County: 51000 VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): POTOMAC 059 /059 /SHEN-M3
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 1
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 8.550
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000307.58
RF3 Mile Point: 7.94
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/69-08/19/69	2	25.	25.	25.	25.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/29/69-08/19/69	2	11.75	11.75	19.	4.5	105.125	10.253	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/69-08/19/69	2	6.25	6.25	6.5	6.	0.125	0.354	**	**	**	**
00311	BOD, DISSOLVED, 5 DAY MG/L	07/29/69-08/19/69	2	3.8	3.8	4.3	3.3	0.5	0.707	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/69-08/19/69	2	0.086	0.086	0.112	0.06	0.001	0.037	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/69-07/29/69	1	1.406	1.406	1.406	1.406	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/69-08/19/69	2	1.435	1.435	1.62	1.25	0.068	0.262	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/29/69-08/19/69	2	28300.	28300.	54200.	2400.	1341620000.	36628.131	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/29/69-08/19/69	2	4.057	4.057	4.734	3.38	0.916	0.957	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			11405.262								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/29/69-08/19/69	2	16665.	16665.	33000.	330.	533664450.	23101.179	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	07/29/69-08/19/69	2	3.519	3.519	4.519	2.519	2.	1.414	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			3300.								
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/29/69-08/19/69	2	20.625	20.625	33.	8.25	306.281	17.501	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/29/69-08/19/69	2	0.27	0.27	0.31	0.23	0.003	0.057	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00				1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	2	2	1.00	1	1	1.00				1	1	1.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	2	1.00	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: HAFE0087

NPS Station ID: HAFE0087
LAT/LON: 39.219448/ -77.816116
Agency: 112WRD
Date Created: 11/18/75
Location: FURNACE RUN NR MOUNTAIN MISSION
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 391310077485801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 10.850
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070004000904.37
RF3 Mile Point: 4.73
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	2	18.75	18.75	26.5	11.	120.125	10.96	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	1	758.	758.	758.	758.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	2	0.85	0.85	1.	0.7	0.045	0.212	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/74-08/03/88	2	61.	61.	70.	52.	162.	12.728	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.35	7.35	7.7	7.	0.245	0.495	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.222	7.222	7.7	7.	0.278	0.527	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/74-08/03/88	2	0.06	0.06	0.1	0.02	0.003	0.057	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	2	6.05	6.05	7.5	4.6	4.205	2.051	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	2	2.4	2.4	2.7	2.1	0.18	0.424	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	2	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: HAFE0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0088

NPS Station ID: HAFE0088 LAT/LON: 39.197781/ -77.816670 Agency: 21VASWCB Date Created: 02/06/82
Location: PURCELLVILLE POTTS SPRINGS FIPS State/County: 51107 VIRGINIA/LOUDOUN
Station Type: /TYPA/MUN/INTAKE/AMBNT/SPRING/SUPPLY STORET Station ID(s): PURCELL @SPM2
RMI-Indexes: 0214001 003810 00010 0550 0160 Within Park Boundary: No
RMI-Miles: 0166.51 0000.90 023.90 002.63 000.15
HUC: 02070007 Depth of Water: 0 Aquifer:
Major Basin: NORTH ATLANTIC Elevation: 0 Water Body Id:
Minor Basin: POTOMAC ECO Region:
RF1 Index: 02070007 RF1 Mile Point: 0.000 Distance from RF1: 18.60 On/Off RF1:
RF3 Index: 02070007004800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.02 On/Off RF3:
Description:

SYMBOL	SUPPLY	TREATMENT	STORAGE	PLANNING	DATA	******	**********	**********	*******	**********
DRAIN	STORAGE	PROCESS	EXISTING/	UTILITY	POP	SAFE DEMAND	AREA	(MG)	DESIGN	SERVED YIELD (MGD)
(SQM)	CAP(MGD)		(MGD)		****	*******	*******	*********	*******	***** ***** *****
@SPM2	B	2.0	TOWN OF	1.6K	.16	PURCEL				

TOPO NAME: ROUND HILL TOPO NUMBER: 216A
HPU: #8/9-30-81 DESCRIPTIVE PARAGRAPH INFORMATION FOR UNOFFICIAL USE ONLY

Parameter Inventory for Station: HAFE0088

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: HAFE0089

NPS Station ID: HAFE0089
LAT/LON: 39.314198/ -77.820559
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Flowing Spring Run west of Halltown, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550929 /S-004-04 /X-MIN-88S007
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-1
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000500.00
RF3 Mile Point: 2.98
Distance from RF3: 0.06
On/Off RF3:
Description:
Flowing Spring Run at County Route 24 Highway Bridge West of Community of Halltown, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department of Natural Resources, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988
> Charles Town WV-VA-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	10	13.	13.1	19.	7.	18.989	4.358	7.1	9.5	17.5	19.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	500.	497.917	570.	425.	1952.083	44.182	429.5	462.5	520.	567.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	12	8.	7.833	16.	2.	24.333	4.933	2.	2.5	12.	14.8
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.	7.983	8.2	7.8	0.016	0.127	7.8	7.9	8.1	8.17
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.	7.967	8.2	7.8	0.016	0.128	7.8	7.9	8.1	8.17
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.01	0.011	0.016	0.006	0.	0.003	0.007	0.008	0.013	0.016
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	10	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/07/88	10	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	10	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	241.5	238.583	252.	221.	116.265	10.783	222.2	227.75	247.75	251.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	16.5	20.542	66.	0.5	361.157	19.004	1.25	6.	31.	58.8
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	12	0.575	0.664	1.18	0.33	0.086	0.293	0.339	0.398	0.92	1.15
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	12	5.3	5.267	6.8	3.1	1.273	1.128	3.34	4.3	6.075	6.74
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	12	0.112	0.108	0.168	0.039	0.002	0.04	0.044	0.074	0.145	0.163
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	292.	288.833	310.	254.	243.97	15.62	260.6	278.5	302.5	308.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	21.5	20.833	25.	9.	17.061	4.13	12.	20.	23.	24.7
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	28.	28.909	32.	28.	2.691	1.64	28.	28.	30.	32.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.55	0.55	0.7	0.4	0.045	0.212	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	85.	85.	100.	70.	450.	21.213	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	4.	4.	4.	4.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	150.	385.5	2300.	100.	395314.273	628.74	100.	100.	257.5	1832.
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12	19.	25.167	108.	10.	746.515	27.322	10.	10.	26.	86.4
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**

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

Parameter Inventory for Station: HAFE0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	159.	333.667	1600.	60.	205191.879	452.981	60.	78.	405.	1360.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.175	0.175	0.3	0.05	0.031	0.177	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0089

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0090

NPS Station ID: HAFE0090
LAT/LON: 39.421116/ -77.821115
Agency: 112WRD
Date Created: 07/20/84
Location: 2101039/MORGAN SPRING
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 392512077492001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070004029800.00
RF3 Mile Point: 0.61
Distance from RF3: 0.36
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/15/70-10/15/70	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/15/70-10/15/70	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/70-10/15/70	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/70-10/15/70	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/70-10/15/70	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/70-10/15/70	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/70-10/15/70	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/70-10/15/70	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/15/70-10/15/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/15/70-10/15/70	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/15/70-10/15/70	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0090

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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									
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: HAFE0091

NPS Station ID: HAFE0091
LAT/LON: 39.281948/ -77.827227
Agency: 112WRD
Date Created: 02/04/89
Location: CATTAIL SPRING 88A
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 391655077493801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 2.10
On/Off RF1:
RF3 Index: 02070007000109.75
RF3 Mile Point: 9.75
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-07/27/88	1	15.5	15.5	15.5	15.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	07/27/88-07/27/88	1	754.	754.	754.	754.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/27/88-07/27/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/88-07/27/88	1	625.	625.	625.	625.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/27/88-07/27/88	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/27/88-07/27/88	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/27/88-07/27/88	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/27/88-07/27/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/27/88-07/27/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-07/27/88	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	1	242.	242.	242.	242.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/27/88-07/27/88	1	295.	295.	295.	295.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/27/88-07/27/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/27/88-07/27/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/27/88-07/27/88	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/27/88-07/27/88	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/27/88-07/27/88	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/27/88-07/27/88	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/27/88-07/27/88	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/27/88-07/27/88	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/27/88-07/27/88	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/27/88-07/27/88	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/27/88-07/27/88	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/27/88-07/27/88	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/27/88-07/27/88	1	19.	19.	19.	19.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/27/88-07/27/88	1	124.	124.	124.	124.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/27/88-07/27/88	1	2.093	2.093	2.093	2.093	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			124.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/27/88-07/27/88	1	270.	270.	270.	270.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/27/88-07/27/88	1	2.431	2.431	2.431	2.431	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			270.								
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	07/27/88-07/27/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/88-07/27/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	07/27/88-07/27/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/27/88-07/27/88	1	336.	336.	336.	336.	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: HAFE0091

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.4	1	0	0.00							1	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00							1	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	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: HAFE0092

NPS Station ID: HAFE0092 | LAT/LON: 39.482892/ -77.832505 | Agency: 21WV7IWQ | Date Created: 11/21/87
Location: Rockymarsh Run near Scrabble, W. Va. | FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 550932 /P-023-01 /X-MIN-88P003
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 02070004 | Depth of Water: 0 | Aquifer:
Major Basin: Mid Atlantic | Elevation: 0 | Water Body Id: WVP-3
Minor Basin: Potomac River | ECO Region: 67M
RF1 Index: 02070004009 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1: ON
RF3 Index: 02070004030400.79 | RF3 Mile Point: 3.76 | Distance from RF3: 0.13 | On/Off RF3:
Description:
Rockymarsh Run at County Route 5 Highway Bridge, Jefferson County, near Scrabble, Berkeley County, West Virginia
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department of Natural Resources, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988.
> Shepherdstown, WV-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/87-09/07/88	9	12.	11.556	19.	1.	34.528	5.876	1.	7.5	17.	19.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/87-09/07/88	12	442.5	442.5	485.	390.	870.455	29.503	393.	422.5	467.5	483.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/07/87-09/07/88	10	4.	5.2	12.	2.	12.622	3.553	2.	2.	8.	11.6
00403	PH, LAB, STANDARD UNITS SU	10/07/87-09/07/88	12	8.	7.983	8.2	7.8	0.023	0.153	7.8	7.825	8.15	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/87-09/07/88	12	8.	7.96	8.2	7.8	0.024	0.155	7.8	7.825	8.15	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/87-09/07/88	12	0.01	0.011	0.016	0.006	0.	0.004	0.006	0.007	0.015	0.016
00406	PH, FIELD, STANDARD UNITS SU	10/07/87-09/07/88	9	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/07/87-09/07/88	9	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/87-09/07/88	9	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/87-09/07/88	12	235.5	233.5	244.	210.	95.	9.747	213.3	230.5	240.75	243.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/87-09/07/88	12	13.	12.958	28.	0.5	77.475	8.802	1.55	4.5	19.5	27.4
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/87-09/07/88	10	0.145	0.158	0.32	0.09	0.005	0.071	0.091	0.1	0.203	0.309
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/87-09/07/88	10	3.5	3.18	4.3	1.5	0.948	0.974	1.51	2.425	3.875	4.28
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/87-09/07/88	10	0.011	0.014	0.028	0.006	0.	0.007	0.006	0.009	0.018	0.028
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/87-09/07/88	12	283.	285.167	322.	234.	450.515	21.225	246.6	276.5	297.	317.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/87-09/07/88	12	9.	24.5	200.	7.	3056.091	55.282	7.	7.25	9.75	143.3
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/87-08/03/88	11	22.	23.636	34.	20.	15.855	3.982	20.4	22.	24.	32.8
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2 ##	0.175	0.175	0.2	0.15	0.001	0.035	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	60.	60.	70.	50.	200.	14.142	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/87-09/07/88	12	94.	122.5	456.	20.	13302.636	115.337	28.4	69.5	108.	385.2
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/87-09/07/88	12 ##	10.	13.	30.	10.	37.455	6.12	10.	10.	13.5	27.
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	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

Parameter Inventory for Station: HAFE0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/87-09/07/88	12	80.	89.583	180.	30.	2008.992	44.822	36.	54.	118.	172.5
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/07/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	9	0	0.00	2	0	0.00	3	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	2	0	0.00	3	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0093

NPS Station ID: HAFE0093
LAT/LON: 39.467781/ -77.836670
Agency: 112WRD
Date Created: 11/18/75
Location: ROCKYMARSH RUN TRIB NR SCRABBLE
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 392804077501201
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070004009503.13
RF3 Mile Point: 3.39
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/02/88	2	13.	13.	14.	12.	2.	1.414	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/02/88-08/02/88	1	753.	753.	753.	753.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/02/88	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/02/88	2	527.5	527.5	555.	500.	1512.5	38.891	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/02/88-08/02/88	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/74-08/02/88	2	7.05	7.05	7.1	7.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/74-08/02/88	2	7.047	7.047	7.1	7.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/74-08/02/88	2	0.09	0.09	0.1	0.079	0.	0.015	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/02/88-08/02/88	1	262.	262.	262.	262.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/02/88-08/02/88	1	319.	319.	319.	319.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/02/88-08/02/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/02/88-08/02/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/02/88-08/02/88	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/02/88-08/02/88	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/02/88	2	95.	95.	100.	90.	50.	7.071	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/02/88	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/02/88	2	8.5	8.5	9.	8.	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: HAFE0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0094

NPS Station ID: HAFE0094
LAT/LON: 39.310004/ -77.840005
Agency: 112WRD
Date Created: / /
Location: 2103051/FLOWING SPRING
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 391836077502401
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070007017700.00
RF3 Mile Point: 0.84
Distance from RF3: 0.61
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/70-05/08/70	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	05/08/70-05/08/70	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/08/70-05/08/70	1	535.	535.	535.	535.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/08/70-05/08/70	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/08/70-05/08/70	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/70-05/08/70	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/08/70-05/08/70	1	292.	292.	292.	292.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/08/70-05/08/70	1	83.	83.	83.	83.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/08/70-05/08/70	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/08/70-05/08/70	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/08/70-05/08/70	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/08/70-05/08/70	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/08/70-05/08/70	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/08/70-05/08/70	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/08/70-05/08/70	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/08/70-05/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/08/70-05/08/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	05/08/70-05/08/70	1	23.	23.	23.	23.	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: HAFE0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a 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			
71850	NITRATE NITROGEN, TOTAL (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: HAFE0095

NPS Station ID: HAFE0095
LAT/LON: 39.250865/ -77.840838
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Evitts Run south of Mechanicstown, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550925 /S-008-02 /X-MIN-88S003
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-4
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000200.00
RF3 Mile Point: 1.24
Distance from RF3: 0.06
On/Off RF3:
Description:
Evitts Run at County Route 25 Highway Bridge south of Community of Mechanicstown, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department
of Natural Resources, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988.
> Charles Town, WV-VA-MD Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/04/54-09/07/88	11	14.	14.273	23.	5.	25.018	5.002	6.	10.	18.	22.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/04/54-08/04/54	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	460.	462.083	530.	400.	1406.629	37.505	403.	443.75	477.5	527.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/04/54-08/04/54	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	08/04/54-08/04/54	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	11	8.	8.909	20.	2.	43.491	6.595	2.	2.	16.	19.2
00400	PH (STANDARD UNITS)	08/04/54-08/04/54	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/04/54-08/04/54	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/04/54-08/04/54	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.1	8.125	8.3	8.	0.008	0.087	8.	8.1	8.2	8.27
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.1	8.117	8.3	8.	0.008	0.087	8.	8.1	8.2	8.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.008	0.008	0.01	0.005	0.	0.001	0.005	0.006	0.008	0.01
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	11	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/07/88	11	8.	8.	8.	8.	0.	0.	8.	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	11	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/54-09/07/88	13	234.	235.	244.	227.	32.167	5.672	227.8	230.5	240.	244.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/04/54-08/04/54	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	08/04/54-08/04/54	1	339.	339.	339.	339.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/04/54-08/04/54	1	274.	274.	274.	274.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/04/54-09/07/88	13	22.	30.038	76.	0.5	583.686	24.16	0.7	14.5	41.5	76.
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	11	0.5	0.568	1.02	0.32	0.046	0.215	0.336	0.43	0.72	0.988
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	11	5.	5.027	7.1	2.3	2.418	1.555	2.5	3.4	6.7	7.02
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	11	0.366	0.322	0.59	0.031	0.028	0.169	0.032	0.265	0.386	0.57
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/54-09/07/88	13	282.	268.769	310.	28.	5436.359	73.732	123.2	273.	302.	308.4
00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/54-09/07/88	13	20.	20.462	32.	7.	34.436	5.868	10.6	17.5	24.	29.6
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	22.	22.182	26.	16.	8.364	2.892	16.8	20.	24.	26.
01002	ARSENIC, TOTAL (UG/L AS AS)	09/07/88-09/07/88	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	09/07/88-09/07/88	1	70.	70.	70.	70.	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: HAFE0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	09/07/88-09/07/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/07/88-09/07/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/07/88-09/07/88	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	11	200.	225.273	550.	72.	21188.218	145.562	72.4	96.	324.	508.
01051	LEAD, TOTAL (UG/L AS PB)	09/07/88-09/07/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	11	30.	28.182	50.	10.	125.964	11.223	10.8	20.	32.	48.
01067	NICKEL, TOTAL (UG/L AS NI)	09/07/88-09/07/88	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/07/88-09/07/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/07/88-09/07/88	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	11	144.	165.455	360.	44.	7880.073	88.77	51.2	102.	220.	340.
01147	SELENIUM, TOTAL (UG/L AS SE)	09/07/88-09/07/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/04/54-08/04/54	1	61000.	61000.	61000.	61000.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/04/54-08/04/54	1	4.785	4.785	4.785	4.785	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			61000.								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	09/07/88-09/07/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	3	0	0.00	4	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	3	0	0.00	4	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	13	0	0.00	4	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	13	0	0.00	4	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	1	1.00	1	1	1.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: HAFE0096

NPS Station ID: HAFE0096
LAT/LON: 39.227782/ -77.841670
Agency: 11NATDC
Date Created: 07/20/85
Location: SHENANDOAH R AT MEYERSTOWN
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): T0703462 /2501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC R
ECO Region:
RF1 Index: 02070007001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007017603.16
RF3 Mile Point: 5.48
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0096

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: HAFE0097

NPS Station ID: HAFE0097
LAT/LON: 39.251670/ -77.851003
Agency: 21WV7IWQ
Date Created: / /
Location: Evitts Run below Charles Town, WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550763 /S-008-03
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-4
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070007000100.00
RF3 Mile Point: 0.23
Distance from RF3: 0.03
On/Off RF3:
Description:
Evitts Run at County Route 36 Highway Bridge about 2.5 Miles downstream and Southeast of City of Charles Town, Jefferson County, West Virginia.
A One Time Intensive Stream Survey Station. Data collected and analyzed by Division of Water Resources, W. VA. Dept. of Natural
Resources, Charleston, West Virginia. **> Charles Town, WV-MD-VA Quadrangle 7.5 Minute Topographic Map <**

Parameter Inventory for Station: HAFE0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/49-08/04/54	4	18.5	18.25	20.	16.	2.917	1.708	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/17/74-12/17/74	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/10/49-12/17/74	4	4.5	9.	23.	4.	87.333	9.345	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/04/54-08/04/54	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/17/74-12/17/74	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/10/49-12/17/74	5	8.5	8.62	10.6	6.8	2.132	1.46	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/10/49-12/17/74	4	89.65	87.075	94.	75.	69.289	8.324	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	10/10/49-12/17/74	4	11.95	11.3	19.7	1.6	61.367	7.834	**	**	**	**
00400	PH (STANDARD UNITS)	10/10/49-12/17/74	5	8.	7.74	8.3	7.1	0.353	0.594	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/10/49-12/17/74	5	8.	7.443	8.3	7.1	0.463	0.68	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/49-12/17/74	5	0.01	0.036	0.079	0.005	0.002	0.04	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/49-08/04/54	4	216.	201.	232.	140.	1734.667	41.649	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/10/49-08/04/54	4	7.	7.375	15.	0.5	41.229	6.421	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/13/49-08/04/54	2	340.5	340.5	414.	267.	10804.5	103.945	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/04/54-08/04/54	1	191.	191.	191.	191.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/04/54-08/04/54	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/17/74-12/17/74	1	0.47	0.47	0.47	0.47	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/17/74-12/17/74	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/17/74-12/17/74	1	0.52	0.52	0.52	0.52	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/17/74-12/17/74	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/49-08/04/54	4	367.5	339.25	460.	162.	16068.917	126.763	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/49-08/04/54	4	6.	6.75	9.	6.	2.25	1.5	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/10/49-08/04/54	3	2400000.	1666666.667	2400000.	200000.	**********	1270170.592	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/10/49-08/04/54	3	6.38	6.02	6.38	5.301	0.388	0.623	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1048296.558								

** - Less 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: HAFE0097

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	4	0	0.00									
		Drinking Water	250.	4	0	0.00	4	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	3	1.00	3	3	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: HAFE0098

NPS Station ID: HAFE0098
LAT/LON: 39.215838/ -77.856948
Agency: 112WRD
Date Created: 05/03/86
Location: BULLSKIN RUN AT KABLETOWN,WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01636462
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007002
RF1 Mile Point: 1.820
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070007000202.40
RF3 Mile Point: 2.46
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-06/21/89	26	13.5	12.75	19.5	3.	23.485	4.846	5.4	8.75	17.125	18.3
00025	BAROMETRIC PRESSURE (MM OF HG)	10/11/84-06/21/89	4	759.5	757.75	761.	751.	20.917	4.573	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-06/21/89	26	11.	11.769	24.	5.	32.185	5.673	5.7	7.	14.	22.6
00065	STAGE, STREAM (FEET)	09/29/88-09/29/88	1	1.91	1.91	1.91	1.91	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-06/21/89	26	512.5	520.769	590.	480.	829.385	28.799	493.5	500.	542.5	563.
00300	OXYGEN, DISSOLVED MG/L	10/11/84-06/21/89	4	8.7	9.225	11.	8.5	1.416	1.19	**	**	**	**
00400	PH (STANDARD UNITS)	10/11/84-06/21/89	26	7.9	7.931	8.5	7.2	0.057	0.238	7.67	7.8	8.1	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/11/84-06/21/89	26	7.9	7.858	8.5	7.2	0.062	0.249	7.67	7.8	8.1	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/84-06/21/89	26	0.013	0.014	0.063	0.003	0.	0.011	0.006	0.008	0.016	0.022
00403	PH, LAB, STANDARD UNITS SU	09/29/88-06/21/89	2	7.95	7.95	8.	7.9	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/29/88-06/21/89	2	7.947	7.947	8.	7.9	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/29/88-06/21/89	2	0.011	0.011	0.013	0.01	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/29/88-09/29/88	1	232.	232.	232.	232.	0.	0.	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	06/21/89-06/21/89	1	248.	248.	248.	248.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/29/88-09/29/88	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/29/88-09/29/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	06/21/89-06/21/89	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	06/21/89-06/21/89	1	302.	302.	302.	302.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	2	0.07	0.07	0.11	0.03	0.003	0.057	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/29/88-06/21/89	2	6.75	6.75	6.8	6.7	0.005	0.071	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/29/88-06/21/89	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/88-06/21/89	2	88.5	88.5	90.	87.	4.5	2.121	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/88-06/21/89	2	14.5	14.5	15.	14.	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/29/88-06/21/89	2	3.9	3.9	4.1	3.7	0.08	0.283	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/29/88-06/21/89	2	2.85	2.85	2.9	2.8	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/29/88-06/21/89	2	11.	11.	11.	11.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/29/88-06/21/89	2	16.5	16.5	17.	16.	0.5	0.707	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/88-06/21/89	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/88-06/21/89	2	11.	11.	11.	11.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/29/88-06/21/89	2	14.5	14.5	16.	13.	4.5	2.121	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/29/88-06/21/89	2	6.	6.	8.	4.	8.	2.828	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/29/88-06/21/89	2	4600.	4600.	7200.	2000.	13520000.	3676.955	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/29/88-06/21/89	2	3.579	3.579	3.857	3.301	0.155	0.393	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			3794.733								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/29/88-06/21/89	2	1500.	1500.	2000.	1000.	500000.	707.107	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/29/88-06/21/89	2	3.151	3.151	3.301	3.	0.045	0.213	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1414.214								

** - Less 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: HAFE0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39054	SIMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39055	SIMAZINE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39056	PROMETONE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39057	PROMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/29/88-06/21/89	2	280.	280.	317.	243.	2738.	52.326	**	**	**	**
77825	ALACHLOR WHOLE WATER,UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/21/89-06/21/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	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: HAFE0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	26	0	0.00	8	0	0.00	8	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	26	0	0.00	8	0	0.00	8	0	0.00	10	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	2	2	1.00	1	1	1.00				1	1	1.00			
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	1	0	0.00							1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.4	1	0	0.00							1	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00							1	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00							1	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	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: HAFE0099

NPS Station ID: HAFE0099
LAT/LON: 39.215921/ -77.856948
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Bullskin Run at Kabletown, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550924 /S-014-02 /X-MIN-88S002
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-6
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007001200.62
RF3 Mile Point: 1.47
Distance from RF3: 0.01
On/Off RF3:
Description:
Bullskin Run at County Route 25 Highway Bridge at Community of Kabletown, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department
of Natural Resources, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988.
> Round Hill, VA-WV Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	11	13.	11.727	18.	1.	24.618	4.962	2.	9.	16.	17.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	450.	453.75	500.	405.	1068.75	32.692	406.5	425.	480.	500.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	12 ##	3.	4.333	16.	2.	16.606	4.075	2.	2.	4.	13.6
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	7.9	7.933	8.1	7.9	0.004	0.065	7.9	7.9	7.975	8.07
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	7.9	7.929	8.1	7.9	0.004	0.065	7.9	7.9	7.975	8.07
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.013	0.012	0.013	0.008	0.	0.002	0.009	0.011	0.013	0.013
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	12	8.	7.917	8.	7.5	0.038	0.195	7.5	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/07/88	12	8.	7.866	8.	7.5	0.041	0.202	7.5	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.01	0.014	0.032	0.01	0.	0.008	0.01	0.01	0.01	0.032
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	230.	230.167	244.	221.	43.424	6.59	221.6	224.5	234.5	242.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	20.	19.917	54.	0.5	217.674	14.754	0.5	7.75	27.75	46.8
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	12	0.32	0.309	0.58	0.12	0.025	0.159	0.129	0.16	0.418	0.568
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	12	5.9	6.025	7.1	4.7	0.442	0.665	4.94	5.575	6.55	7.04
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	12	0.033	0.076	0.53	0.017	0.021	0.144	0.017	0.023	0.059	0.39
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	286.	289.167	312.	268.	210.515	14.509	269.8	276.5	303.	310.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	13.	12.583	15.	10.	2.992	1.73	10.3	11.	14.	15.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	18.	17.455	22.	14.	4.873	2.207	14.4	16.	18.	21.6
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	70.	70.	80.	60.	200.	14.142	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	190.	241.5	520.	74.	18231.364	135.024	80.	145.	355.	484.
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12	20.	18.5	36.	10.	58.273	7.634	10.	10.5	23.	32.4
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	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

Parameter Inventory for Station: HAFE0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	150.	164.917	400.	48.	9802.447	99.007	54.6	76.5	217.25	358.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0099

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0100

NPS Station ID: HAFE0100
LAT/LON: 39.181115/ -77.858115
Agency: 21WV7IWQ
Date Created: 05/26/79
Location: Shenandoah River near Meyerstown, W. VA.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/FISH/STREAM/TISSUE
STORET Station ID(s): 550472 /S-018
RMI-Indexes: 0214001 004230
Within Park Boundary: No
RMI-Miles: 0169.70 0017.48
HUC: 02070007
Depth of Water: 4
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007003
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070007000100.00
RF3 Mile Point: 0.69
Distance from RF3: 0.15
On/Off RF3:
Description:
A Bank Sample of Shenandoah River beside County Route 25/7 Highway, just upstream from mouth of Long Marsh Run, and about 1.8 Miles South-
east of Community of Meyerstown, Jefferson County, West Virginia. A State of West Virginia Water Quality Sampling Station maintained
by Division of Water Resources, W. Va. Dept. of Natural Resources, Charleston, West Virginia (Sampling Discontinued)
*** FISH AND TISSUE COLLECTION AND ANALYSIS *** **> Round Hill, VA-WV Quadrangle 7.5 Minute Topographic Map <**

Parameter Inventory for Station: HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	74	16.95	15.305	30.4	0.	82.604	9.089	1.2	7.8	22.575	27.
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	112	59.9	59.174	84.	32.	246.695	15.707	37.52	45.575	73.375	80.48
00019	SAMPLE WEIGHT IN GRAMS	10/15/81-10/28/93	19	236.	365.526	1126.	52.	93377.708	305.578	82.	150.	618.	984.
00023	SAMPLE WEIGHT IN POUNDS	10/15/81-10/28/93	19	0.71	1.032	3.13	0.15	0.697	0.835	0.24	0.38	1.48	2.67
00024	SAMPLE LENGTH IN INCHES	10/15/81-10/28/93	19	11.5	12.415	20.87	5.79	17.52	4.186	6.93	9.72	16.5	18.19
00039	SAMPLE LENGTH IN MILLIMETERS	10/22/82-10/17/83	4	291.5	313.75	392.	280.	2750.917	52.449	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-04/03/84	57	2130.	3418.965	19800.	385.	13409806.356	3661.94	762.8	1270.	3905.	8400.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	62	1285.	2318.145	14700.	216.	6552987.405	2559.88	542.6	761.25	3095.	5436.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/17/67-06/11/74	58	11.75	31.853	750.	2.	9643.623	98.202	3.	6.	28.5	50.
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	159	5.	7.843	30.	2.5	21.355	4.621	2.5	5.	10.	15.
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	07/17/67-10/20/70	29	1.4	1.979	8.	1.	2.184	1.478	1.	1.	2.	4.
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	02/02/71-01/28/75	31	1.	1.039	1.4	1.	0.014	0.12	1.	1.	1.	1.32
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	104	1.	1.01	2.	1.	0.01	0.098	1.	1.	1.	1.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/08/80-07/03/84	43	342.	354.395	750.	60.	14096.578	118.729	232.	288.	420.	512.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	161	350.	351.925	700.	125.	11479.844	107.144	212.	275.	405.	496.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/07/81-07/03/84	28	9.05	9.339	14.3	4.8	6.365	2.523	6.13	7.2	11.275	12.76
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	133	10.8	10.806	16.7	5.3	5.023	2.241	7.8	9.1	12.4	13.52
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	122	97.15	102.875	173.	47.5	479.988	21.909	79.	90.45	116.2	133.41
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	141	2.	2.499	12.9	0.1	3.926	1.981	0.52	1.2	2.9	5.2
00340	COD, .25N K2CR2O7 MG/L	05/03/77-10/06/81	9	16.	16.556	30.	8.	63.278	7.955	8.	10.	23.5	30.
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	90	8.3	8.323	9.8	6.7	0.515	0.717	7.5	7.775	9.125	9.3
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	90	8.3	7.846	9.8	6.7	0.744	0.863	7.5	7.775	9.125	9.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	90	0.005	0.014	0.2	0.	0.001	0.025	0.001	0.001	0.017	0.032
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	160	8.2	8.202	8.9	7.2	0.104	0.322	7.8	8.	8.4	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	160	8.2	8.085	8.9	7.2	0.117	0.343	7.8	8.	8.4	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	160	0.006	0.008	0.063	0.001	0.	0.007	0.003	0.004	0.01	0.016
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	172	121.	122.773	226.	65.	791.381	28.131	86.2	102.25	143.	158.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/10/67-06/05/79	56	3.	2.973	8.	0.	3.586	1.894	1.	1.	4.	6.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	09/18/46-10/18/49	8 ##	0.75	0.75	1.	0.5	0.071	0.267	**	**	**	**

** - Less 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: HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00500	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	99	245.	271.131	755.	147.	8569.074	92.569	184.	217.	295.	393.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/17/67-12/10/74	61	208.	212.852	478.	2.	9232.595	96.086	63.4	168.	261.5	331.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	164	17.	38.223	508.	0.	4738.363	68.836	2.	7.	36.	82.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/10/74-10/23/74	2	0.585	0.585	0.74	0.43	0.048	0.219	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	114	0.07	0.083	0.7	0.	0.006	0.074	0.03	0.05	0.09	0.14
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-10/23/74	60	0.91	1.587	19.9	0.005	7.65	2.766	0.161	0.583	1.4	4.64
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	112	0.445	0.46	0.97	0.08	0.041	0.201	0.2	0.293	0.577	0.768
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	108	0.97	0.995	1.96	0.01	0.219	0.468	0.336	0.673	1.328	1.65
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/10/74-12/10/75	8	0.12	0.101	0.19	0.03	0.003	0.056	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	112	0.127	0.14	0.391	0.025	0.006	0.077	0.057	0.079	0.182	0.26
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/18/76-10/02/84	52	13.	15.558	47.	1.	136.487	11.683	3.3	6.	22.	34.4
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	40	0.002	0.003	0.008	0.001	0.	0.002	0.001	0.001	0.004	0.007
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	164	160.	161.433	308.	44.	1702.443	41.261	114.	134.	185.5	218.
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	52	17.	21.66	94.	0.8	333.852	18.272	6.26	9.475	27.75	43.1
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/17/67-12/08/70	31	27.	29.065	64.	5.3	189.528	13.767	10.36	18.	35.	51.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/17/67-12/08/70	31	2.	2.181	5.4	1.2	0.743	0.862	1.3	1.5	2.7	3.06
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	48	2.1	2.277	3.8	0.2	0.599	0.774	1.58	1.8	2.95	3.455
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	171	14.	16.17	44.	3.	59.624	7.722	8.	11.	20.	26.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	167	50.	60.623	195.	18.	1257.851	35.466	27.8	35.	75.	109.2
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	150	0.12	0.207	6.5	0.005	0.3	0.548	0.08	0.09	0.15	0.269
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	37 ##	1.	3.5	15.	1.	20.139	4.488	1.	1.	5.	14.2
01007	BARIUM, TOTAL (UG/L AS BA)	03/06/79-09/18/84	12 ##	20.	90.	440.	20.	19381.818	139.219	20.	20.	75.	404.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/21/68-12/08/70	20 ##	1.	1.425	5.	0.5	1.981	1.407	0.5	0.5	2.	4.8
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	126 ##	2.	2.345	10.	1.	2.15	1.466	2.	2.	2.	4.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	146 ##	0.5	2.63	100.	0.	74.962	8.658	0.5	0.5	3.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	55 ##	2.	4.783	50.	0.04	46.685	6.833	2.	2.	5.	10.
01040	COPPER, DISSOLVED (UG/L AS CU)	12/08/70-12/08/70	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	49	6.	7.133	20.	0.5	21.8	4.669	2.	2.	10.	14.
01045	IRON, TOTAL (UG/L AS FE)	07/17/67-09/18/84	97	160.	332.124	4800.	5.	351508.047	592.881	20.	75.	350.	788.
01046	IRON, DISSOLVED (UG/L AS FE)	09/07/69-03/02/70	4	67.	121.	340.	10.	23910.667	154.631	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/10/67-12/08/70	28 ##	25.	22.554	50.	6.5	91.654	9.574	10.	12.5	25.	31.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	132 ##	20.	19.712	152.	10.	242.039	15.558	10.	10.	20.	30.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	113	40.	46.504	240.	2.	1492.413	38.632	13.6	20.	59.	92.
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	28 ##	20.	19.679	40.	10.	47.337	6.88	10.	20.	20.	22.
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	10/17/83-10/17/83	2 ##	0.135	0.135	0.245	0.025	0.024	0.156	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/68-12/08/70	20 ##	2.5	2.875	10.	1.	4.128	2.032	1.05	2.	2.5	5.9
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	42 ##	2.	3.512	23.	1.	16.299	4.037	1.	2.	4.	9.4
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/21/68-12/08/70	3	50.	64.667	110.	34.	1605.333	40.067	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	57	44.	62.728	220.	0.5	2998.304	54.757	9.	25.5	77.	172.8
01097	ANTIMONY, TOTAL (UG/L AS SB)	03/06/79-03/06/84	11	80.	78.182	160.	20.	2596.364	50.955	20.	20.	120.	156.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-09/18/84	33	160.	219.455	960.	20.	35877.318	189.413	40.	100.	300.	444.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	26 ##	0.5	0.615	3.	0.5	0.246	0.496	0.5	0.5	0.5	0.65
01360	SAMPLE LENGTH CM	10/15/81-10/28/93	15	26.	28.867	47.	14.	115.981	10.769	15.8	19.	38.	46.4
01361	SAMPLE LENGTH-MAXIMUM CM	10/15/81-10/28/93	15	34.	34.333	57.	16.	161.524	12.709	17.8	21.	46.	52.2
01362	SAMPLE WEIGHT-MAXIMUM G	10/15/81-10/28/93	15	512.	599.067	1694.	80.	232167.495	481.838	114.8	195.	1074.	1427.6
01371	SAMPLE, AVERAGE LENGTH BIOLOGICAL TISS.COMP. CM	10/15/81-10/28/93	15	29.2	31.573	53.	14.7	139.412	11.807	16.44	19.8	42.	48.92
01373	SAMPLE, AVG WT BIOLOGICAL TISS OF COMPOSITE GRAMS	10/15/81-10/28/93	15	320.	485.733	1421.	66.	175128.067	418.483	92.4	166.	846.	1295.
01501	ALPHA, TOTAL	07/01/80-04/05/83	14 ##	0.4	0.407	0.8	0.25	0.02	0.14	0.275	0.3	0.5	0.65
01502	ALPHA, TOTAL, COUNTING ERROR	07/08/81-07/08/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
03501	BETA, TOTAL	07/01/80-04/05/83	14	2.5	2.607	6.	0.5	2.853	1.689	0.75	1.	3.	6.
03502	BETA, TOTAL, COUNTING ERROR	07/01/80-04/05/83	10	2.	1.6	2.	1.	0.267	0.516	1.	1.	2.	2.
03886	MERCURY,TOTAL, IN FISH, WET WEIGHT MG/KG	10/15/81-09/27/84	5	0.18	0.198	0.25	0.18	0.001	0.03	**	**	**	**
03891	ZINC, IN FISH, WET WEIGHT MG/KG	09/27/84-09/27/84	2	13.75	13.75	16.1	11.4	11.045	3.323	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	157	500.	4545.732	180000.	5.	252202868.531	15880.896	40.	100.	2800.	12000.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	157	2.699	2.731	5.255	0.699	0.95	0.975	1.602	2.	3.446	4.079
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			538.482								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	143	40.	11578.853	1500000.	5.	15756861227.309	125526.337	5.	10.	150.	460.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	143	1.602	1.69	6.176	0.699	0.813	0.901	0.699	1.	2.176	2.66
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			48.955								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	55	20.	2021.091	106800.	5.	207101099.714	14391.008	5.	5.	60.	330.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	55	1.301	1.469	5.029	0.699	0.632	0.795	0.699	0.699	1.778	2.519
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			29.424								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/03/82-10/02/84	24 ##	1.	3.521	60.	0.5	145.141	12.047	0.5	0.5	2.	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: HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34258	B-BHC-BETA WET WGTTISMG/KG	10/15/81-09/27/84	4 ##	0.	0.003	0.01	0.	0.	0.005	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	10/15/81-09/27/84	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10/22/82-10/22/82	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34664	PCB - 1221 WET WGTTISMG/KG	10/11/89-10/11/89	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	10/11/89-10/11/89	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	10/11/89-10/11/89	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	10/15/81-10/28/93	16	0.355	2.392	11.8	0.	16.433	4.054	0.018	0.157	4.283	11.758
34674	PCB - 1016 WET WGTTISMG/KG	10/11/89-10/11/89	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/15/81-09/27/84	6 ##	0.005	0.003	0.005	0.	0.	0.003	**	**	**	**
34684	DIELDRIN TISMG/KG	10/15/81-09/27/84	4 ##	0.003	0.003	0.005	0.	0.	0.003	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/15/81-09/27/84	6 ##	0.003	0.003	0.005	0.	0.	0.003	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/15/81-09/27/84	6 ##	0.005	0.006	0.02	0.	0.	0.007	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/15/81-09/27/84	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	10/15/81-09/27/84	4 ##	0.003	0.003	0.005	0.	0.	0.003	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	10/11/89-10/11/89	6 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39015	ETHYLPARATHION, FLAME IONIFATION,WTR SMPLE(UG/L)	10/15/81-09/27/84	4 ##	0.	0.001	0.005	0.	0.	0.003	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/15/81-09/27/84	6 ##	0.003	0.027	0.15	0.	0.004	0.06	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/15/81-09/27/84	6 ##	0.	0.023	0.13	0.	0.003	0.053	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/15/81-09/27/84	6 ##	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/15/81-09/27/84	6 ##	0.	0.001	0.005	0.	0.	0.002	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/15/81-09/27/84	6 ##	0.005	0.003	0.005	0.	0.	0.003	**	**	**	**
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	10/15/81-10/15/81	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/17/83-10/17/83	2 ##	0.01	0.01	0.02	0.	0.	0.014	**	**	**	**
39317	P,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	10/15/81-09/27/84	6 ##	0.003	1.668	10.	0.	16.66	4.082	**	**	**	**
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	10/15/81-09/27/84	6 ##	0.	0.005	0.02	0.	0.	0.008	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/15/81-09/27/84	6 ##	0.005	0.137	0.49	0.	0.046	0.215	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/83-10/17/83	2 ##	0.003	0.003	0.005	0.	0.	0.004	**	**	**	**
39407	TOXAPHENE IN FISH OR ANIMAL(UG/KG WET WEIGHT)	10/17/83-10/17/83	2 ##	115.	115.	230.	0.	26450.	162.635	**	**	**	**
39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	10/15/81-10/11/89	12 ##	0.	0.004	0.025	0.	0.	0.01	0.	0.	0.	0.025
39525	PCBS TOTAL,FISH TISSUE WET (ISOMER ANALYSES) MG/KG	09/27/84-10/28/93	11	0.78	3.43	11.8	0.13	20.853	4.566	0.152	0.29	5.44	11.788
39703	HEXACHLOROBENZENE IN FISH OR ANIMALS WET WGT UG/K	10/17/83-10/17/83	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
45554	O,P'-DDD IN TISSUE WET WEIGHT UG/KG	10/15/81-09/27/84	6 ##	0.	0.002	0.005	0.	0.	0.003	**	**	**	**
49289	INVALID PARAMETER	09/27/84-10/28/93	12	2.05	4.683	17.8	0.14	37.532	6.126	0.158	0.305	6.553	17.23
49375	INVALID PARAMETER	10/15/81-09/27/84	4 ##	0.003	0.006	0.02	0.	0.	0.009	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	102	227.5	238.471	526.	121.	6622.192	81.377	138.9	171.75	285.75	354.3
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/10/75-05/27/81	18	0.078	0.086	0.196	0.018	0.003	0.056	0.023	0.038	0.114	0.186
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	54 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	64 ##	0.1	0.133	0.6	0.1	0.009	0.093	0.1	0.1	0.1	0.25
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/22/82-10/17/83	4	0.155	0.138	0.18	0.06	0.003	0.057	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/15/81-09/27/84	6	2.05	1.892	3.	0.75	0.606	0.779	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/15/81-09/27/84	6	1.15	1.048	1.29	0.5	0.082	0.286	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/17/83-10/17/83	2	16.3	16.3	17.6	15.	3.38	1.838	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/15/81-09/27/84	6	0.59	0.748	1.6	0.48	0.182	0.427	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/15/81-09/27/84	6	0.035	0.063	0.13	0.025	0.003	0.052	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/15/81-10/28/93	19	5.	4.474	5.	2.	1.041	1.02	2.	4.	5.	5.
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	10/22/82-10/17/83	4	1.	1.	1.	1.	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/17/83-10/17/83	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
81724	NICKEL IN FISH TISSUE,DRY WEIGHT,MG/KG	09/27/84-09/27/84	2 ##	0.67	0.67	0.94	0.4	0.146	0.382	**	**	**	**
81742	SILVER IN FISH TISSUE WET WEIGHT (MG/KG)PPM	10/15/81-10/17/83	4	0.2	0.218	0.3	0.17	0.003	0.057	**	**	**	**
81760	O,P'-DDE IN FISH TISSUE WET WEIGHT MG/KG	10/15/81-09/27/84	6 ##	0.003	0.005	0.02	0.	0.	0.008	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/27/84-09/27/84	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	104	8.	12.823	100.	1.	231.435	15.213	3.	4.	14.	28.5

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

EPA Water Quality Criteria Analysis for Station: HAFE0100

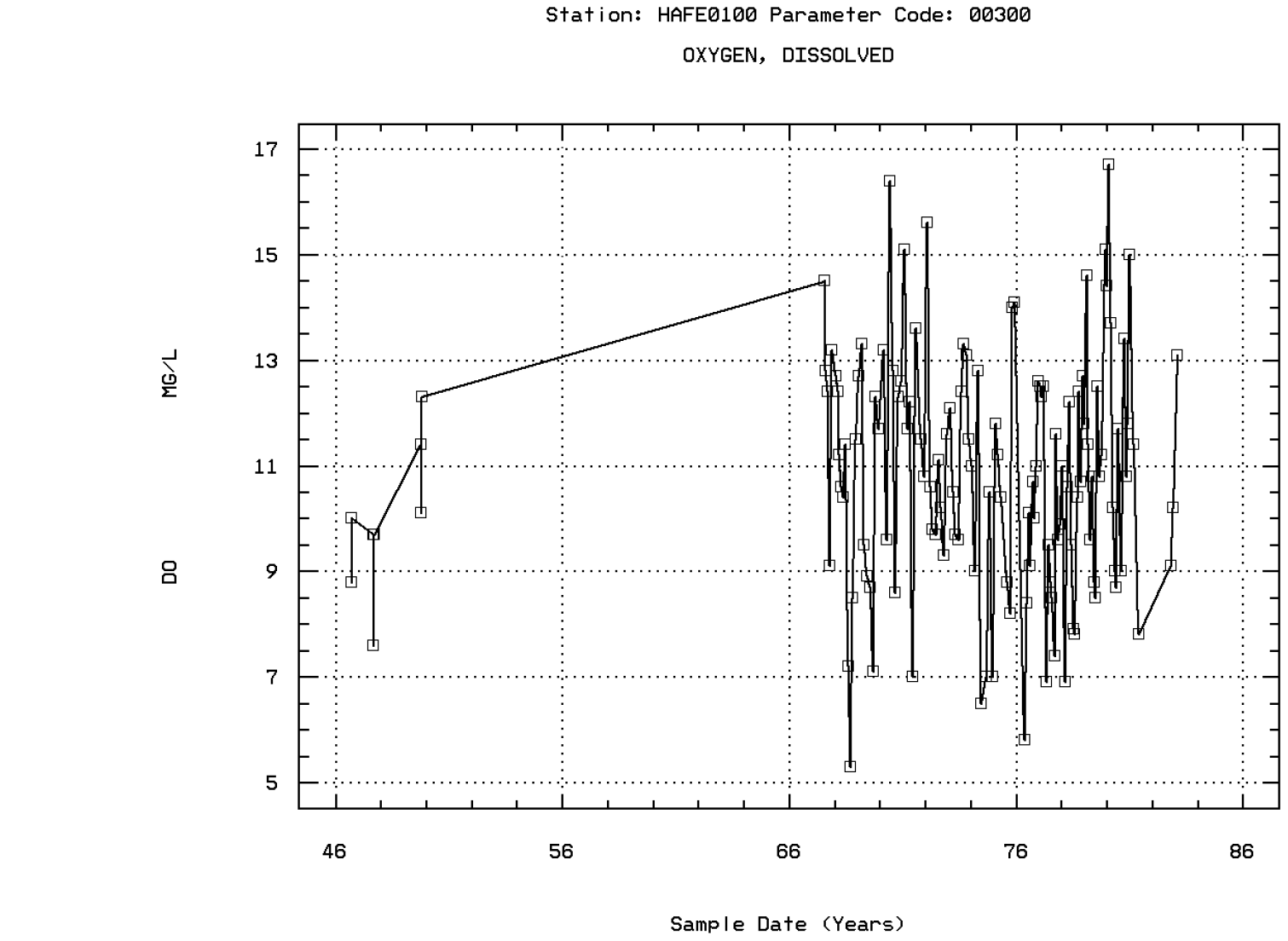
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	57 &	5	0.09	15	2	0.13	21	1	0.05	21	2	0.10			

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

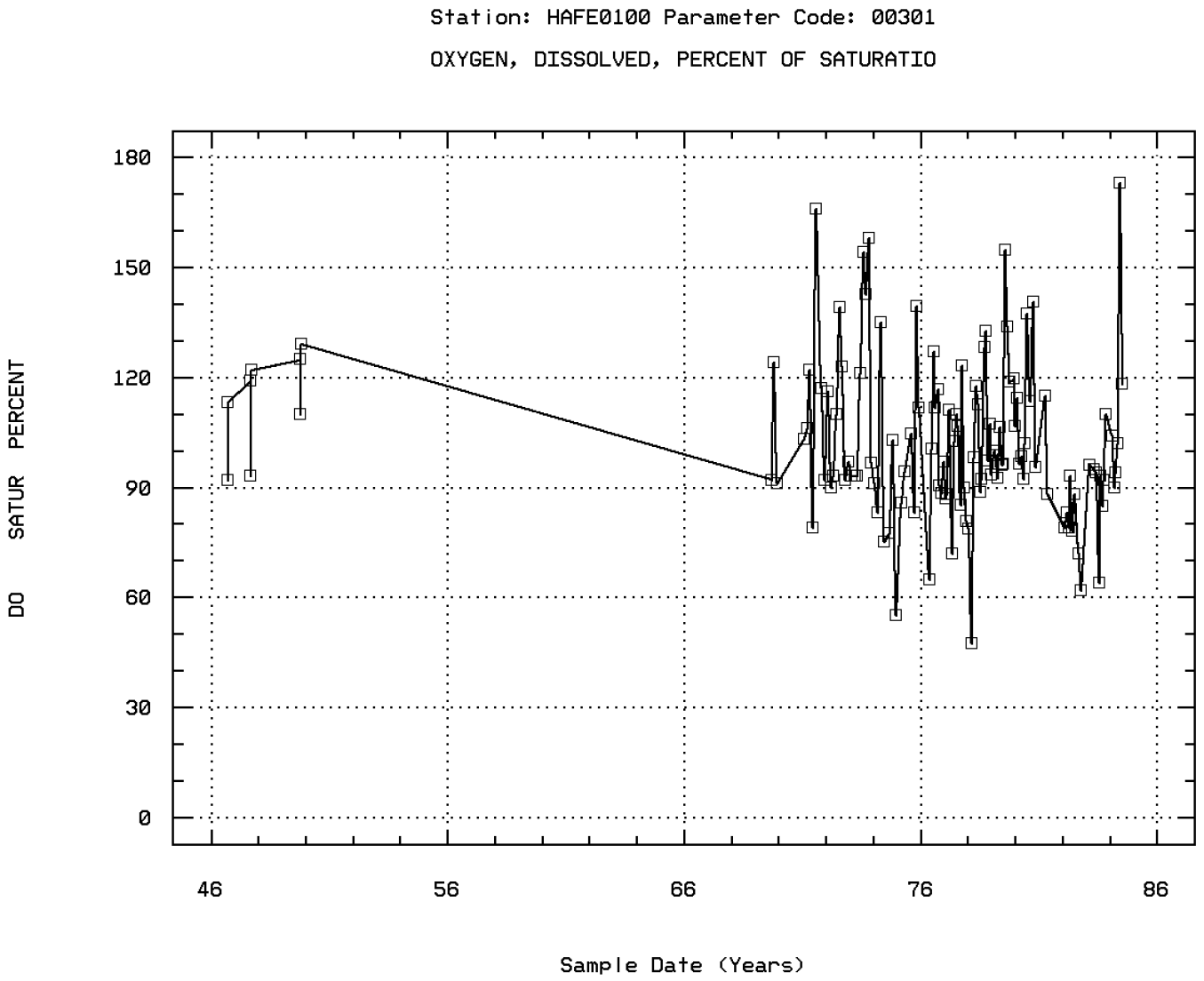
EPA Water Quality Criteria Analysis for Station: HAFE0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	28	0	0.00	6	0	0.00	8	0	0.00	14	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	133	0	0.00	41	0	0.00	51	0	0.00	41	0	0.00			
00400	PH	Other-Hi Lim.	9.	90	25	0.28	27	8	0.30	35	12	0.34	28	5	0.18			
		Other-Lo Lim.	6.5	90	0	0.00	27	0	0.00	35	0	0.00	28	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	160	0	0.00	43	0	0.00	63	0	0.00	54	0	0.00			
		Other-Lo Lim.	6.5	160	0	0.00	43	0	0.00	63	0	0.00	54	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	60	1	0.02	17	1	0.06	22	0	0.00	21	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	108	0	0.00	28	0	0.00	44	0	0.00	36	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	40	0	0.00	12	0	0.00	18	0	0.00	10	0	0.00			
		Drinking Water	0.2	40	0	0.00	12	0	0.00	18	0	0.00	10	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	171	0	0.00	51	0	0.00	65	0	0.00	55	0	0.00			
		Drinking Water	250.	171	0	0.00	51	0	0.00	65	0	0.00	55	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	167	0	0.00	46	0	0.00	65	0	0.00	56	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	150	1	0.01	38	0	0.00	62	1	0.02	50	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	37	0	0.00	10	0	0.00	15	0	0.00	12	0	0.00			
		Drinking Water	50.	37	0	0.00	10	0	0.00	15	0	0.00	12	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	12	0	0.00	5	0	0.00	6	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	18 &	0	0.00	6	0	0.00	6	0	0.00	6	0	0.00			
		Drinking Water	5.	18 &	0	0.00	6	0	0.00	6	0	0.00	6	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	122 &	9	0.07	32	3	0.09	48	6	0.13	42	0	0.00			
		Drinking Water	5.	122 &	5	0.04	32	1	0.03	48	4	0.08	42	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	146	2	0.01	38	1	0.03	57	1	0.02	51	0	0.00			
		Drinking Water	100.	146	1	0.01	38	0	0.00	57	1	0.02	51	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	55	0	0.00	18	0	0.00	24	0	0.00	13	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	49	1	0.02	13	0	0.00	22	1	0.05	14	0	0.00			
		Drinking Water	1300.	49	0	0.00	13	0	0.00	22	0	0.00	14	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	28	0	0.00	8	0	0.00	11	0	0.00	9	0	0.00			
		Drinking Water	15.	13 &	6	0.46	5	2	0.40	4	2	0.50	4	2	0.50			
01051	LEAD, TOTAL	Fresh Acute	82.	132	1	0.01	34	0	0.00	50	0	0.00	48	1	0.02			
		Drinking Water	15.	73 &	22	0.30	18	6	0.33	29	9	0.31	26	7	0.27			
01067	NICKEL, TOTAL	Fresh Acute	1400.	28	0	0.00	11	0	0.00	12	0	0.00	5	0	0.00			
		Drinking Water	100.	28	0	0.00	11	0	0.00	12	0	0.00	5	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	17 &	0	0.00	6	0	0.00	6	0	0.00	5	0	0.00			
		Drinking Water	100.	20	0	0.00	7	0	0.00	6	0	0.00	7	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	38 &	5	0.13	13	1	0.08	17	2	0.12	8	2	0.25			
		Drinking Water	100.	42	0	0.00	14	0	0.00	17	0	0.00	11	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	57	7	0.12	18	1	0.06	24	3	0.13	15	3	0.20			
		Drinking Water	5000.	57	0	0.00	18	0	0.00	24	0	0.00	15	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	11	4	0.36	5	2	0.40	5	2	0.40	1	0	0.00			
		Drinking Water	6.	8 &	8	1.00	4	4	1.00	4	4	1.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	26	0	0.00	9	0	0.00	12	0	0.00	5	0	0.00			
		Drinking Water	50.	26	0	0.00	9	0	0.00	12	0	0.00	5	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	157	67	0.43	42	23	0.55	64	16	0.25	51	28	0.55			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	139 &	27	0.19	38	7	0.18	58	8	0.14	43	12	0.28			
39015	ETHYLPARATHION, FLAME IONIFATION, WATER	Fresh Acute	0.065	4	0	0.00	4	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	64	0	0.00	20	0	0.00	28	0	0.00	16	0	0.00			
		Drinking Water	2.	64	0	0.00	20	0	0.00	28	0	0.00	16	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	104	3	0.03	30	1	0.03	40	0	0.00	34	2	0.06			

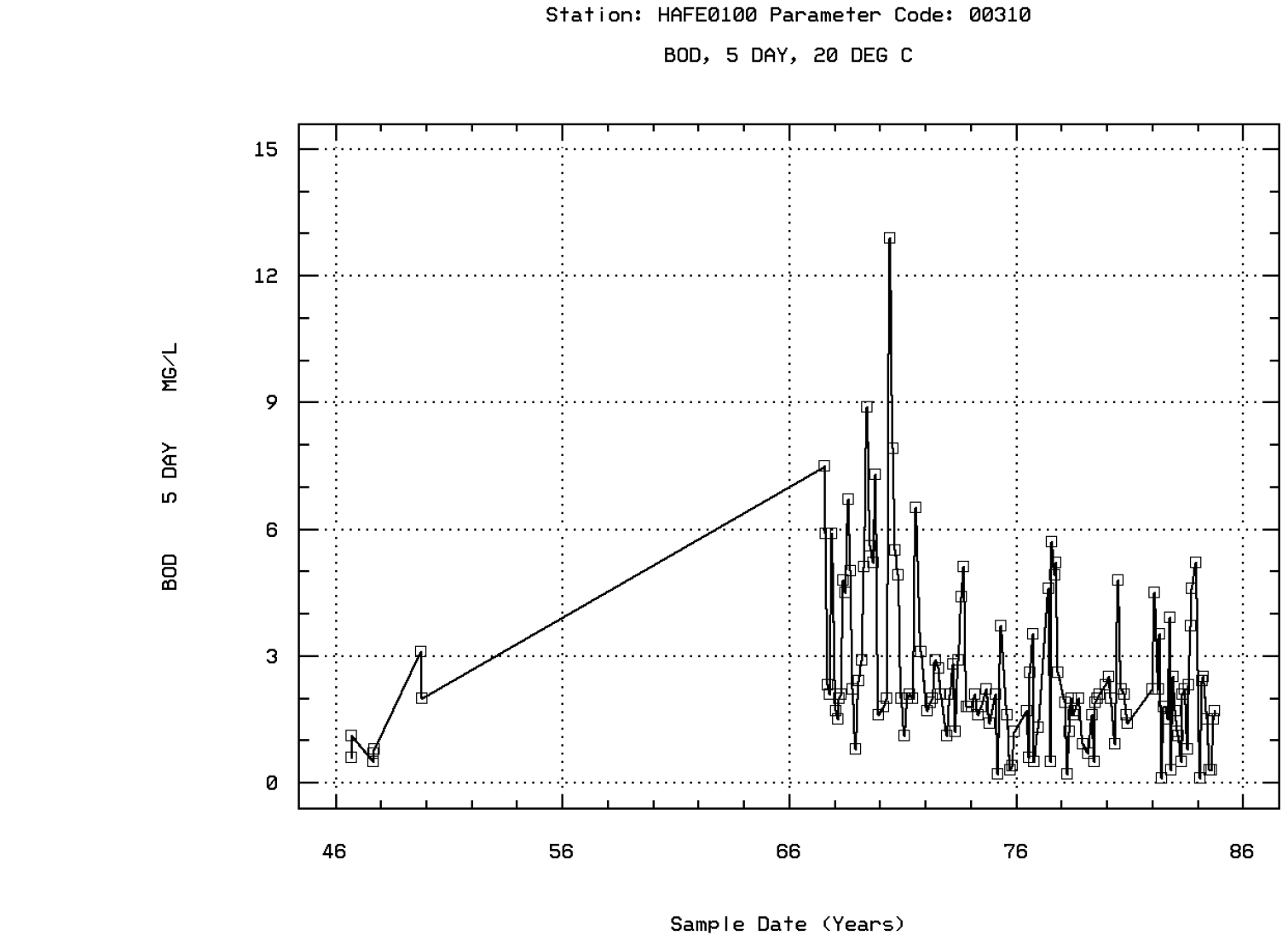
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



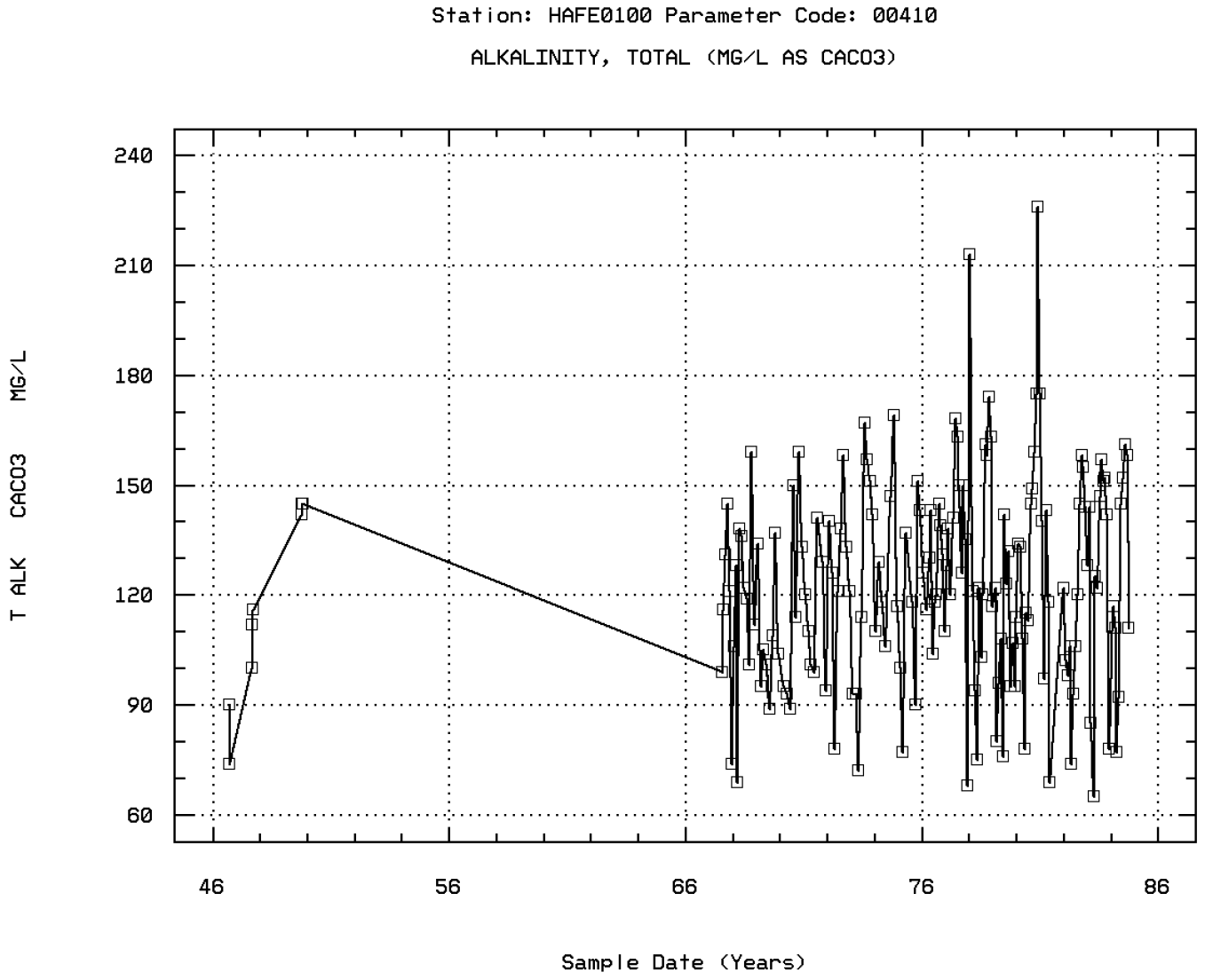
Shenandoah River near Meyerstown, W. VA



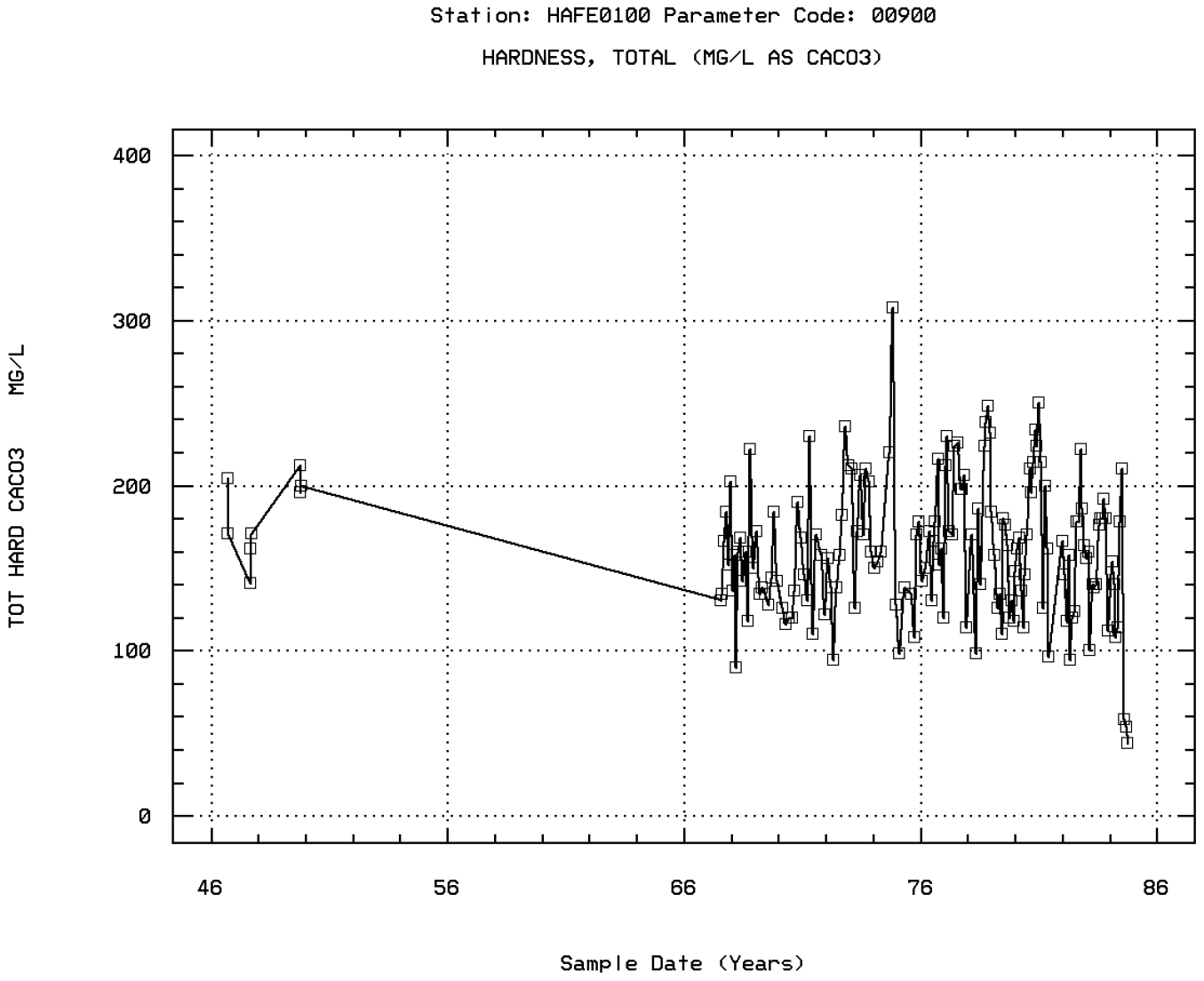
Shenandoah River near Meyerstown, W. VA



Shenandoah River near Meyerstown, W. VA



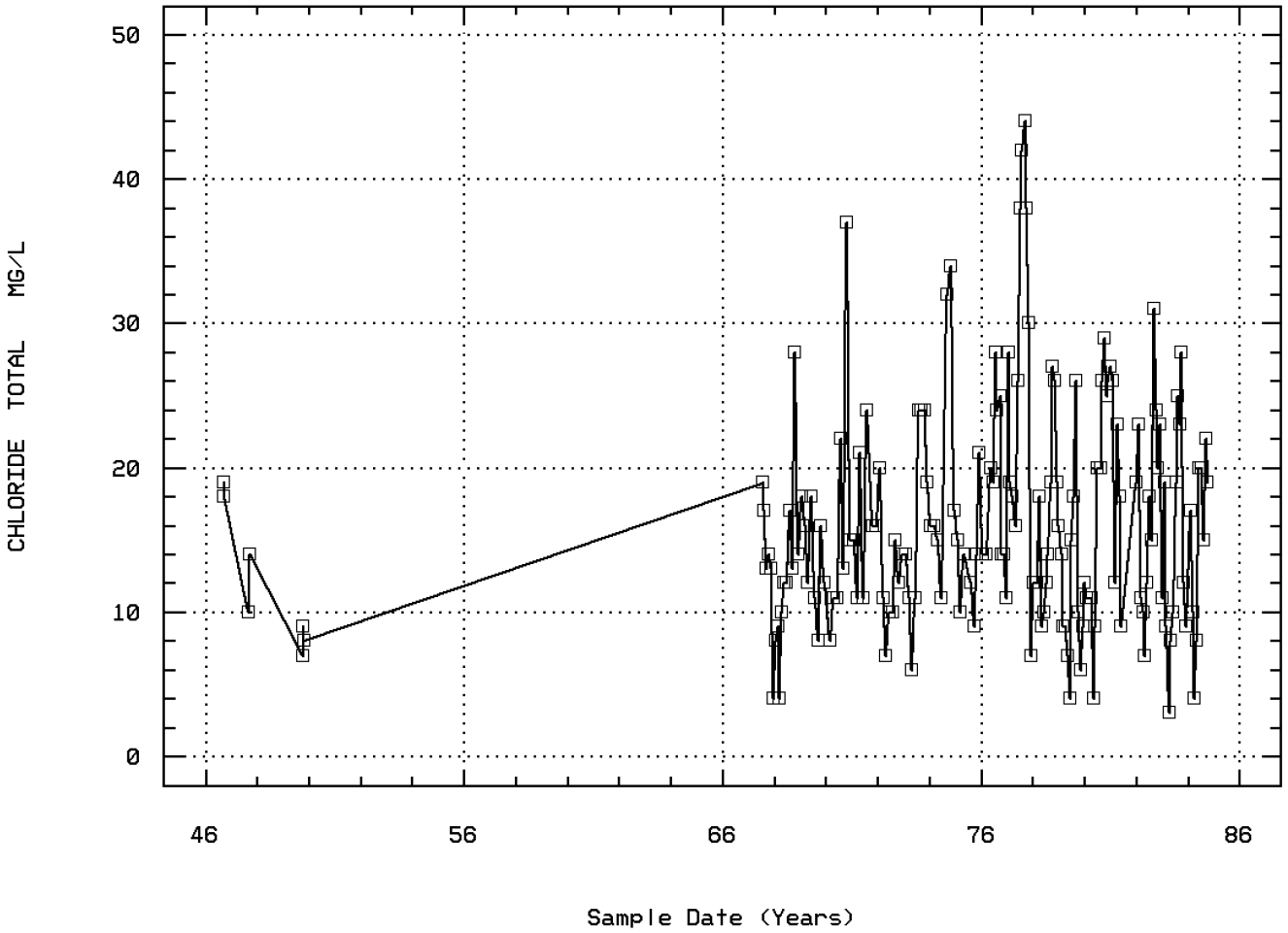
Shenandoah River near Meyerstown, W. VA



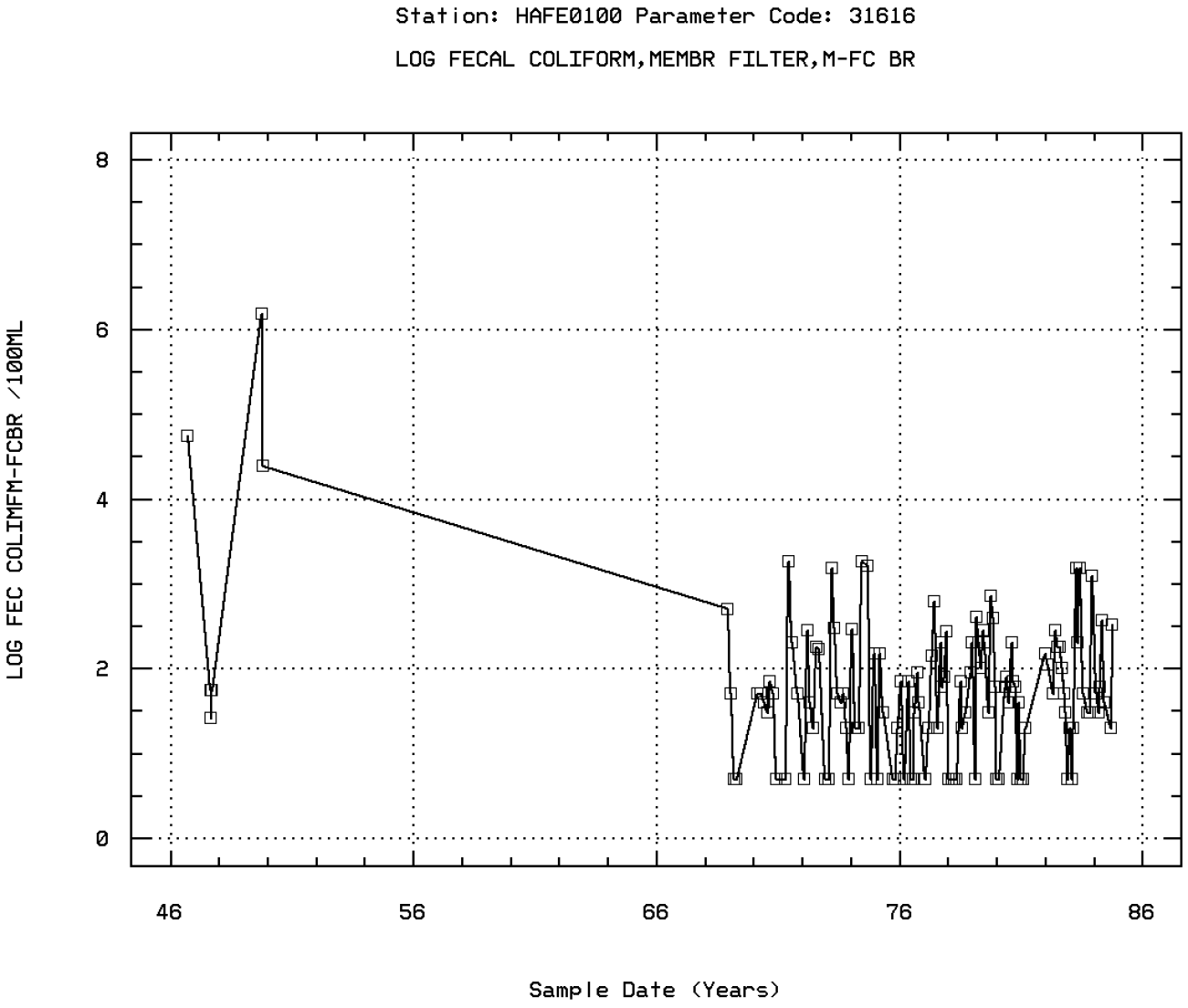
Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



Shenandoah River near Meyerstown, W. VA



Shenandoah River near Meyerstown, W. VA

Annual Analysis for 1946 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	2	20.	20.	22.	18.	8.	2.828	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	2	765.	765.	765.	765.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	2	9.4	9.4	10.	8.8	0.72	0.849	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	2	102.5	102.5	113.	92.	220.5	14.849	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	2	0.85	0.85	1.1	0.6	0.125	0.354	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	2	7.5	7.5	7.6	7.4	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	2	7.489	7.489	7.6	7.4	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	2	0.032	0.032	0.04	0.025	0.	0.01	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	2	82.	82.	90.	74.	128.	11.314	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	2	187.5	187.5	204.	171.	544.5	23.335	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	2	18.5	18.5	19.	18.	0.5	0.707	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	2 ##	55000.	55000.	55000.	55000.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	2 ##	4.74	4.74	4.74	4.74	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			55000.								

** - Less 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 1947 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	3	27.	27.	28.	26.	1.	1.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	3	800.	776.667	900.	630.	18633.333	136.504	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	3	9.7	9.	9.7	7.6	1.47	1.212	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	3	119.	111.333	122.	93.	254.333	15.948	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	3	0.7	0.667	0.8	0.5	0.023	0.153	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	3	8.1	8.133	8.3	8.	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	3	8.1	8.116	8.3	8.	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	3	0.008	0.008	0.01	0.005	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	3	112.	109.333	116.	100.	69.333	8.327	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	3	162.	158.	171.	141.	237.	15.395	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	3	10.	11.333	14.	10.	5.333	2.309	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	3 ##	55.	45.333	55.	26.	280.333	16.743	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	3 ##	1.74	1.632	1.74	1.415	0.035	0.188	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			42.845								

** - Less 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 1949 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	3	20.	19.333	20.	18.	1.333	1.155	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	3	820.	810.	860.	750.	3100.	55.678	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	3	11.4	11.267	12.3	10.1	1.223	1.106	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	3	125.	121.333	129.	110.	100.333	10.017	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	3	2.	2.033	3.1	1.	1.103	1.05	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	3	8.6	8.7	9.2	8.3	0.21	0.458	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	3	8.6	8.566	9.2	8.3	0.237	0.487	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	3	0.003	0.003	0.005	0.001	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	3	145.	144.	145.	142.	3.	1.732	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	3	200.	202.667	212.	196.	69.333	8.327	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	3	8.	8.	9.	7.	1.	1.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	2	762000.	762000.	1500000.	24000.	**********	1043689.609	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	2	5.278	5.278	6.176	4.38	1.613	1.27	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			189736.66								

** - Less 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 1967 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	6	8.	7.333	12.	2.5	16.567	4.07	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	6	359.5	363.	470.	225.	9701.6	98.497	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	5	12.8	12.4	14.5	9.1	4.025	2.006	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	5	5.9	4.74	7.5	2.1	5.808	2.41	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	6	8.6	8.417	8.7	7.8	0.142	0.376	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	6	8.6	8.262	8.7	7.8	0.17	0.413	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	6	0.003	0.005	0.016	0.002	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	118.5	114.333	145.	74.	625.467	25.009	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	6	244.	232.667	280.	131.	2967.467	54.474	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	159.	161.333	202.	130.	801.067	28.303	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	6	13.5	13.333	19.	4.	26.667	5.164	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	5	67.	63.6	82.	27.	457.8	21.396	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	2	0.36	0.36	0.44	0.28	0.013	0.113	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	10	290.	2455.	21000.	100.	42554072.222	6523.348	108.	195.	922.5	18999.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	10	2.44	2.661	4.322	2.	0.44	0.663	2.026	2.29	2.965	4.19
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			458.385								

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

Annual Analysis for 1968 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	10	64.4	59.69	84.	36.4	283.817	16.847	36.6	43.725	72.025	83.62
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	10	5.5	7.3	25.	2.5	43.067	6.563	2.5	4.375	7.	23.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	10	400.	419.6	700.	176.	20286.267	142.43	188.5	345.25	500.	686.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	10	10.9	10.12	12.7	5.3	5.695	2.386	5.49	8.175	11.725	12.67
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	10	2.15	3.13	6.7	0.8	3.805	1.951	0.87	1.65	4.85	6.53
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	10	8.	8.05	8.5	7.6	0.105	0.324	7.61	7.775	8.425	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	10	8.	7.952	8.5	7.6	0.116	0.34	7.61	7.775	8.425	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	10	0.01	0.011	0.025	0.003	0.	0.007	0.003	0.004	0.017	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	120.5	119.	159.	69.	598.	24.454	72.2	104.75	136.5	156.9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	10	20.5	72.6	508.	1.	23995.378	154.904	1.2	7.5	49.25	465.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	154.	150.4	222.	90.	1183.822	34.407	92.8	131.5	162.	216.6
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	10	12.	12.7	28.	4.	41.567	6.447	4.4	8.75	14.75	26.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	10	54.5	71.3	159.	23.	2087.122	45.685	23.9	37.25	104.5	156.7
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	10	0.24	0.27	0.57	0.005	0.047	0.216	0.005	0.046	0.475	0.562
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	3	4.	12.333	30.	3.	234.333	15.308	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	10	35.	48.5	180.	5.	2589.167	50.884	5.5	17.5	57.5	170.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	10	245.	18606.5	180000.	5.	3216399133.611	56713.306	14.5	122.5	2000.	162200.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	10	2.382	2.666	5.255	0.699	1.416	1.19	0.829	2.085	3.301	5.06
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			463.338								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	1 ##	500.	500.	500.	500.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	1 ##	2.699	2.699	2.699	2.699	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			500.								

** - Less 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 HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	61.4	59.738	83.2	33.2	381.131	19.523	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	8 ##	3.75	5.625	15.	2.5	19.268	4.39	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	8	387.5	405.625	500.	340.	3024.554	54.996	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	10.6	10.525	13.3	7.1	5.102	2.259	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	3	92.	102.333	124.	91.	352.333	18.771	**	**	**	**

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

Annual Analysis for 1969 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	5.15	4.875	8.9	1.6	6.216	2.493	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	8	8.25	8.262	8.9	7.8	0.103	0.32	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	8	8.247	8.173	8.9	7.8	0.112	0.334	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	8	0.006	0.007	0.016	0.001	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	104.5	109.25	137.	89.	301.357	17.36	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	8	13.5	16.125	37.	0.	192.982	13.892	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	140.	147.	184.	128.	401.143	20.029	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	14.	13.875	18.	8.	13.268	3.643	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	8	63.	62.5	81.	37.	216.	14.697	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	8	0.33	1.218	6.5	0.18	4.674	2.162	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	8	4.	4.625	7.	3.	1.696	1.302	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	8	45.	55.	90.	30.	485.714	22.039	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	8	120.	718.125	4500.	5.	2384142.411	1544.067	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	8	2.073	2.13	3.653	0.699	0.757	0.87	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			134.989								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	3 ##	5.	20.	50.	5.	675.	25.981	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	3 ##	0.699	1.032	1.699	0.699	0.333	0.577	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.772								

** - Less 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 HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	7	57.8	61.743	78.8	40.	286.5	16.926	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7 ##	2.5	3.	6.	2.5	1.75	1.323	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	7	385.	382.	564.	261.	9124.	95.52	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	12.6	12.214	16.4	8.6	6.481	2.546	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	4.9	5.286	12.9	1.8	16.458	4.057	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	7	8.2	8.243	8.6	8.	0.066	0.257	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	7	8.2	8.183	8.6	8.	0.07	0.265	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	7	0.006	0.007	0.01	0.003	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	114.	119.	159.	89.	822.333	28.676	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	7	17.	14.714	22.	2.	62.571	7.91	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	126.	139.429	190.	116.	811.619	28.489	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	13.	16.714	37.	8.	99.571	9.979	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	7	48.	54.571	109.	31.	647.952	25.455	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	5	0.18	0.42	1.32	0.05	0.272	0.522	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7	4.	17.5	100.	0.5	1328.75	36.452	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	7	30.	31.429	50.	20.	180.952	13.452	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	1000.	1142.857	3400.	50.	1452023.81	1205.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	3.	2.687	3.531	1.699	0.557	0.746	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			486.238								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	50.	42.143	70.	5.	415.476	20.383	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	1.699	1.531	1.845	0.699	0.147	0.384	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			33.998								

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Annual Analysis for 1971 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	7	60.1	57.714	79.	32.1	244.565	15.639	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	6 ##	2.5	4.	8.	2.5	5.8	2.408	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	6	307.5	344.167	480.	270.	8024.167	89.578	**	**	**	**

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Annual Analysis for 1971 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	11.7	11.7	15.1	7.	6.393	2.529	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	7	106.	112.143	166.	79.	774.476	27.829	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	2.05	2.8	6.5	1.1	3.688	1.92	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	7	7.9	7.971	8.2	7.8	0.019	0.138	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	7	7.9	7.954	8.2	7.8	0.019	0.139	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	7	0.013	0.011	0.016	0.006	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	110.	113.429	141.	94.	299.619	17.31	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	7	13.	19.5	78.	0.5	705.083	26.553	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	146.	152.286	230.	110.	1604.571	40.057	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	16.	16.286	24.	11.	23.238	4.821	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	7	35.	41.714	73.	25.	288.571	16.987	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	6	0.095	0.11	0.16	0.08	0.001	0.032	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	6 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7	3.	2.643	6.	0.5	3.893	1.973	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	6	41.	53.	152.	10.	2522.8	50.227	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	6	20.	22.5	40.	5.	217.5	14.748	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	400.	2635.714	11000.	50.	17898095.238	4230.614	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	2.602	2.649	4.041	1.699	1.007	1.004	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			445.976								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	10.	297.857	1800.	5.	443632.143	666.057	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	1.	1.565	3.255	0.699	0.854	0.924	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			36.719								

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Annual Analysis for 1972 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	57.85	59.763	82.	37.8	261.017	16.156	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	5.	7.857	15.	5.	15.476	3.934	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	8	326.5	321.625	400.	210.	3248.268	56.994	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	10.4	10.988	15.6	9.3	4.05	2.012	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	8	103.5	107.5	139.	90.	311.143	17.639	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	1.95	1.925	2.9	1.	0.454	0.673	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	8	8.25	8.238	8.4	7.9	0.031	0.177	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	8	8.247	8.203	8.4	7.9	0.033	0.181	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	8	0.006	0.006	0.013	0.004	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	129.5	126.875	158.	78.	537.268	23.179	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	8	16.	19.125	52.	3.	211.268	14.535	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	157.	164.25	236.	94.	2023.357	44.982	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	11.5	12.375	20.	7.	15.696	3.962	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	8	37.5	44.375	70.	30.	274.554	16.57	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	8	0.11	0.12	0.18	0.07	0.001	0.037	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	6 ##	4.5	3.75	5.	1.5	2.575	1.605	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	8 ##	0.5	1.188	3.	0.5	1.281	1.132	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	6 ##	15.	16.667	20.	15.	6.667	2.582	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	6	50.	55.	100.	20.	790.	28.107	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	8	11500.	13618.75	40000.	180.	200798926.786	14170.354	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	8	4.057	3.655	4.602	2.255	0.835	0.914	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			4519.266								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	8	30.	88.75	280.	5.	11262.5	106.125	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	8	1.452	1.529	2.447	0.699	0.511	0.715	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			33.825								

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Annual Analysis for 1973 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	58.2	60.275	82.	40.3	237.228	15.402	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	10.	9.571	15.	5.	9.619	3.101	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	8	305.	340.625	580.	170.	24488.839	156.489	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	11.8	11.525	13.3	9.6	2.116	1.455	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	8	108.75	118.9	158.	93.	835.123	28.898	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	2.45	2.763	5.1	1.2	1.843	1.357	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	8	8.4	8.413	8.9	7.8	0.15	0.387	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	8	8.389	8.261	8.9	7.8	0.176	0.42	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	8	0.004	0.005	0.016	0.001	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	128.	123.625	167.	72.	1245.125	35.286	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	8	30.	44.5	144.	2.	2040.	45.166	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	187.	182.	210.	126.	915.429	30.256	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	8	16.5	16.625	24.	6.	50.268	7.09	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	8	52.	62.25	130.	21.	1482.5	38.503	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	8	0.125	0.123	0.15	0.08	0.001	0.023	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	8 ##	19.	20.5	30.	15.	38.286	6.188	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	8	35.	39.75	90.	2.	877.071	29.615	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	8	6350.	10405.	31000.	40.	152929914.286	12366.484	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	8	3.797	3.454	4.491	1.602	1.012	1.006	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2841.386								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	8	45.	247.5	1510.	5.	269585.714	519.216	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	8	1.651	1.669	3.179	0.699	0.708	0.841	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			46.707								

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Annual Analysis for 1974 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	7	53.2	57.029	73.5	41.5	153.572	12.392	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	8.	8.429	10.	5.	3.286	1.813	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	7	320.	367.143	580.	260.	12623.81	112.356	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	9.	9.114	12.8	6.5	5.808	2.41	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	7	83.	88.471	135.	55.1	636.926	25.237	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	1.8	1.817	2.2	1.4	0.09	0.299	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	7	8.3	8.186	8.6	7.2	0.211	0.46	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	7	8.3	7.884	8.6	7.2	0.318	0.564	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	7	0.005	0.013	0.063	0.003	0.	0.022	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	118.	128.	169.	106.	512.	22.627	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	7	34.	34.714	61.	14.	359.238	18.954	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	3 ##	0.015	0.083	0.22	0.015	0.014	0.118	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	3	0.43	0.513	0.74	0.37	0.039	0.199	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	2	0.201	0.201	0.214	0.187	0.	0.019	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	157.	186.667	308.	128.	4479.467	66.929	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	16.	20.143	34.	11.	81.143	9.008	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	7	39.	50.429	119.	31.	958.619	30.962	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	7	0.1	0.101	0.14	0.08	0.	0.022	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	5 ##	6.	5.2	10.	1.	16.7	4.087	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7 ##	0.5	0.857	3.	0.5	0.893	0.945	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	7 ##	10.	14.286	30.	10.	61.905	7.868	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	7	22.	21.143	44.	2.	218.476	14.781	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	420.	1848.571	5000.	40.	4423314.286	2103.168	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	2.623	2.797	3.699	1.602	0.658	0.811	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			627.016								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	150.	560.714	1820.	5.	640570.238	800.356	**	**	**	**

** - Less 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 HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	2.176	2.058	3.26	0.699	0.99	0.995	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			114.405								
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	3	12.	11.833	20.	3.5	68.083	8.251	**	**	**	**

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Annual Analysis for 1975 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	6	56.	55.25	76.5	39.5	189.475	13.765	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	7	10.	9.143	12.	5.	8.81	2.968	**	**	**	**
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	4	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	7	290.	265.571	350.	125.	6307.286	79.418	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	7	11.2	11.214	14.1	8.2	5.335	2.31	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	6	99.4	103.1	139.4	83.1	435.872	20.878	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	1.2	1.357	3.7	0.2	1.583	1.258	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	7	8.2	8.114	8.3	7.8	0.051	0.227	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	7	8.2	8.06	8.3	7.8	0.055	0.234	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	7	0.006	0.009	0.016	0.005	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	7	118.	116.571	151.	77.	808.286	28.43	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	7	25.	48.286	172.	1.	3984.571	63.123	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	7	0.08	0.11	0.26	0.04	0.006	0.077	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	7	0.51	0.45	0.64	0.24	0.031	0.177	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	7	0.94	0.899	1.03	0.71	0.012	0.109	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	7	0.158	0.129	0.2	0.043	0.004	0.064	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	136.	137.667	178.	98.	1027.867	32.06	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	7	14.	13.571	21.	9.	15.619	3.952	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	7	24.	28.571	43.	19.	94.286	9.71	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	7	0.1	0.096	0.12	0.07	0.	0.02	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	7 ##	2.	4.	10.	2.	9.333	3.055	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	7 ##	0.5	0.429	0.5	0.	0.036	0.189	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	3 ##	10.	13.333	20.	10.	33.333	5.774	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	7	40.	52.857	110.	16.	1283.81	35.83	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	6	3000.	4383.333	15000.	10.	30660506.667	5537.193	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	6	3.471	3.047	4.176	1.	1.32	1.149	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1113.212								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	6 ##	12.5	35.833	150.	5.	3234.167	56.87	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	6 ##	1.	1.175	2.176	0.699	0.358	0.598	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			14.969								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	6	180.5	183.333	242.	135.	2103.067	45.859	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	7	9.8	14.371	40.	1.9	185.522	13.621	**	**	**	**

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Annual Analysis for 1976 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	8	69.	63.938	82.	40.	278.031	16.674	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	10.	10.	15.	5.	10.	3.162	5.	10.	10.	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	10	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	11	350.	361.818	460.	280.	4056.364	63.69	284.	300.	400.	458.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	8	10.05	9.712	12.6	5.8	4.087	2.022	**	**	**	**

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Annual Analysis for 1976 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	8	98.65	99.55	126.9	64.7	374.271	19.346	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	1.3	1.6	3.5	0.5	1.213	1.102	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	8	8.4	8.3	8.6	7.9	0.103	0.321	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	8	8.389	8.196	8.6	7.9	0.115	0.339	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	8	0.004	0.006	0.013	0.003	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	126.	125.636	145.	104.	179.855	13.411	105.2	116.	139.	144.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	11	20.	22.818	71.	2.	349.564	18.697	3.2	10.	28.	63.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	11	0.08	0.089	0.22	0.03	0.004	0.062	0.03	0.04	0.12	0.212
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	11	0.55	0.565	0.97	0.2	0.063	0.25	0.218	0.34	0.7	0.964
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	11	0.59	0.734	1.63	0.06	0.285	0.534	0.064	0.3	1.18	1.568
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	11	0.087	0.096	0.155	0.043	0.001	0.033	0.048	0.073	0.123	0.151
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	157.	158.8	216.	120.	735.289	27.116	121.	139.	173.5	212.2
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	10	16.5	18.3	28.	11.	33.567	5.794	11.3	14.	24.25	27.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	10	44.	52.2	103.	32.	506.622	22.508	32.3	36.5	64.25	100.4
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	9	0.11	0.182	0.8	0.08	0.054	0.232	0.08	0.09	0.125	0.8
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	11 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	2.227	8.	0.5	7.018	2.649	0.5	0.5	5.	7.4
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	11 ##	50.	35.455	50.	10.	287.273	16.949	12.	20.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	10	46.	43.2	92.	16.	580.622	24.096	16.4	20.	57.	88.8
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	9	270.	389.444	1000.	5.	167927.778	409.79	5.	50.	850.	1000.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	9	2.431	2.191	3.	0.699	0.602	0.776	0.699	1.699	2.923	3.
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			155.267								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	10	20.	33.5	90.	5.	1050.278	32.408	5.	5.	70.	88.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	10	1.239	1.282	1.954	0.699	0.267	0.517	0.699	0.699	1.845	1.943
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			19.145								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	11	213.	225.182	329.	154.	2232.364	47.248	160.2	202.	252.	318.6
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	4.1	5.35	14.	2.	12.367	3.517	2.1	3.	6.575	13.43

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Annual Analysis for 1977 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	11	64.	59.182	82.	34.	288.064	16.972	34.2	44.	73.	81.9
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	5.	7.727	15.	5.	11.818	3.438	5.	5.	10.	14.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	10	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	11	500.	465.455	700.	200.	17987.273	134.117	230.	380.	550.	680.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	9.6	9.955	12.5	6.9	4.081	2.02	7.	8.5	12.3	12.5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	11	90.	96.027	123.1	72.	243.518	15.605	73.74	85.1	110.	120.72
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	6	4.75	3.917	5.7	0.5	3.934	1.983	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	11	8.75	8.659	9.4	7.5	0.527	0.726	7.51	7.9	9.3	9.38
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	11	8.75	8.124	9.4	7.5	0.842	0.918	7.51	7.9	9.3	9.38
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	11	0.002	0.008	0.032	0.	0.	0.012	0.	0.001	0.013	0.031
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	11	8.6	8.518	8.9	8.1	0.076	0.275	8.1	8.3	8.7	8.9
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	11	8.6	8.438	8.9	8.1	0.083	0.287	8.1	8.3	8.7	8.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	11	0.003	0.004	0.008	0.001	0.	0.002	0.001	0.002	0.005	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	138.	135.182	168.	68.	721.164	26.854	78.4	126.	150.	167.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	11	14.	18.818	50.	0.5	277.514	16.659	0.5	4.	31.	48.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	11	0.07	0.064	0.09	0.03	0.	0.019	0.03	0.05	0.07	0.088
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	11	0.55	0.548	0.85	0.2	0.053	0.231	0.2	0.31	0.78	0.84
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	11	0.67	0.608	1.62	0.01	0.372	0.61	0.012	0.03	1.23	1.55
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	11	0.269	0.239	0.391	0.103	0.011	0.104	0.103	0.117	0.318	0.382
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	10	202.	195.	230.	114.	1241.111	35.229	119.6	171.5	224.5	229.6
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	11	28.	27.818	44.	7.	142.564	11.94	8.8	18.	38.	43.6

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Annual Analysis for 1977 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	11	108.	118.182	195.	59.	2521.764	50.217	59.4	74.	155.	194.6
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	10	0.115	0.114	0.16	0.06	0.001	0.034	0.062	0.087	0.143	0.159
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	11 ##	2.	2.545	8.	2.	3.273	1.809	2.	2.	2.	6.8
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	10 ##	10.	17.	50.	10.	178.889	13.375	10.	10.	22.5	48.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	11	30.	57.091	124.	8.	2036.291	45.125	8.8	16.	112.	122.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	300.	380.909	2300.	10.	430049.091	655.781	10.	20.	390.	1920.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	2.477	2.083	3.362	1.	0.585	0.765	1.	1.301	2.591	3.21
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			121.181								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	11	60.	130.455	620.	5.	34072.273	184.587	6.	10.	200.	550.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	11	1.778	1.696	2.792	0.699	0.464	0.681	0.759	1.	2.301	2.72
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			49.63								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	11	327.	329.364	526.	121.	11701.455	108.173	144.2	248.	394.	503.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	11.	13.364	60.	3.	269.255	16.409	3.	4.	12.	52.2

** - 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 1978 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	8	13.	14.475	24.5	0.3	71.234	8.44	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	11	57.2	58.764	80.	32.5	272.363	16.503	33.	46.4	76.1	79.24
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	5.	5.227	10.	2.5	3.068	1.752	3.	5.	5.	9.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	11	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	10	300.	336.	500.	200.	11960.	109.362	204.	247.5	465.	498.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	10.6	10.191	12.7	6.9	3.861	1.965	7.08	7.9	12.2	12.64
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	11	98.	100.036	132.5	47.5	577.299	24.027	53.74	88.7	117.6	131.62
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	1.65	1.438	2.	0.2	0.403	0.635	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	11	8.6	8.664	9.5	7.7	0.365	0.604	7.7	8.4	9.2	9.44
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	11	8.6	8.285	9.5	7.7	0.522	0.722	7.7	8.4	9.2	9.44
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	11	0.003	0.005	0.02	0.	0.	0.007	0.	0.001	0.004	0.02
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	11	8.3	8.264	8.5	7.8	0.055	0.234	7.84	8.1	8.5	8.5
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	11	8.3	8.202	8.5	7.8	0.059	0.242	7.84	8.1	8.5	8.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	11	0.005	0.006	0.016	0.003	0.	0.004	0.003	0.003	0.008	0.015
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	122.	136.727	213.	75.	1645.618	40.566	78.8	103.	163.	205.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	11	16.	20.455	95.	2.	741.073	27.223	2.	3.	21.	84.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	11	0.08	0.065	0.14	0.02	0.002	0.039	0.02	0.03	0.08	0.134
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	11	0.32	0.35	0.65	0.2	0.021	0.146	0.2	0.23	0.48	0.62
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	11	0.93	1.099	1.56	0.75	0.086	0.294	0.778	0.9	1.42	1.544
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	11	0.158	0.141	0.282	0.056	0.005	0.069	0.057	0.065	0.169	0.267
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	8	205.	192.	248.	98.	2848.	53.367	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	11	14.	16.182	27.	9.	37.964	6.161	9.2	12.	19.	26.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	11	50.	64.455	139.	29.	1164.073	34.119	30.8	39.	85.	133.4
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	10	0.105	0.107	0.15	0.08	0.001	0.025	0.08	0.08	0.125	0.149
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	11 ##	2.	2.182	4.	2.	0.364	0.603	2.	2.	2.	3.6
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	1.5	8.	0.5	5.75	2.398	0.5	0.5	0.5	7.2
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	11	10.	17.273	30.	10.	81.818	9.045	10.	10.	30.	30.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	9	36.	43.778	96.	16.	708.444	26.617	16.	22.	63.	96.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	100.	739.091	5300.	5.	2466644.091	1570.555	5.	10.	630.	4520.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	2.	2.023	3.724	0.699	0.992	0.996	0.699	1.	2.799	3.609
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			105.487								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	11	10.	23.636	90.	5.	855.455	29.248	5.	5.	30.	86.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	11	1.	1.125	1.954	0.699	0.213	0.462	0.699	0.699	1.477	1.932
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.331								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	11	218.	243.818	409.	148.	7189.164	84.789	148.6	169.	299.	398.6
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	6.	11.	43.	3.	131.2	11.454	3.2	5.	12.	37.8

** - 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 1979 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	11	15.	15.273	27.	0.	75.068	8.664	1.1	9.	22.	27.
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	11	59.	58.764	80.6	32.	264.225	16.255	33.98	42.	71.6	80.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	3	7140.	6270.	7810.	3860.	4468300.	2113.835	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	12	5.	7.708	30.	2.5	53.93	7.344	3.25	5.	8.75	24.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	12	247.5	279.583	400.	180.	6829.356	82.64	186.	205.	372.5	400.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	11.2	11.373	15.1	8.5	4.446	2.109	8.56	9.6	12.5	15.
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	11	99.9	110.009	154.8	92.6	394.319	19.857	92.78	96.1	119.6	150.6
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	7	1.9	1.586	2.3	0.5	0.501	0.708	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	12	9.25	9.1	9.8	7.9	0.229	0.479	8.08	9.025	9.3	9.65
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	12	9.247	8.747	9.8	7.9	0.365	0.604	8.08	9.025	9.3	9.65
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	12	0.001	0.002	0.013	0.	0.	0.003	0.	0.001	0.001	0.01
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	12	8.05	8.125	8.8	7.6	0.131	0.362	7.66	7.9	8.375	8.77
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	12	8.047	8.01	8.8	7.6	0.145	0.381	7.66	7.9	8.375	8.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	12	0.009	0.01	0.025	0.002	0.	0.007	0.002	0.004	0.013	0.022
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	107.5	107.75	142.	76.	411.295	20.28	77.2	95.	122.75	139.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	12	23.5	49.75	255.	4.	5140.205	71.695	4.3	8.	76.	207.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	13	0.07	0.125	0.7	0.	0.031	0.177	0.02	0.055	0.115	0.476
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	12	0.395	0.392	0.8	0.16	0.031	0.176	0.169	0.225	0.495	0.713
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	12	1.005	0.981	1.35	0.38	0.082	0.287	0.461	0.783	1.223	1.344
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	12	0.142	0.15	0.341	0.062	0.007	0.085	0.062	0.071	0.211	0.307
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	11	134.	145.455	184.	110.	752.073	27.424	111.6	120.	176.	183.2
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	9.5	11.917	26.	4.	37.902	6.156	4.6	7.5	15.75	23.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	12	32.5	49.083	104.	22.	808.992	28.443	23.5	29.25	68.	101.9
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.12	0.122	0.19	0.08	0.001	0.035	0.08	0.093	0.138	0.187
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	1.636	3.	0.5	1.705	1.306	0.5	0.5	3.	3.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	10.	15.833	40.	10.	81.061	9.003	10.	10.	20.	34.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	4	67.	90.	210.	16.	7010.667	83.73	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	12	6250.	10554.167	50000.	50.	201734299.242	14203.32	65.	1125.	15000.	41600.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	12	3.787	3.51	4.699	1.699	0.838	0.916	1.789	3.044	4.173	4.592
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			3239.645								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	12	200.	215.417	710.	5.	42942.992	207.227	6.5	37.5	362.5	617.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	12	2.301	2.029	2.851	0.699	0.447	0.668	0.789	1.552	2.555	2.776
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			106.923								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	204.	202.333	291.	127.	3470.788	58.913	130.	142.75	252.	287.1
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	12.5	23.6	100.	7.	806.044	28.391	7.3	10.	25.5	93.9

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

Annual Analysis for 1980 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	12	15.5	14.683	30.	0.	110.876	10.53	0.3	4.05	24.	29.4
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	10	59.9	57.02	82.4	32.	332.244	18.228	32.18	36.5	75.2	81.68
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	12	1510.	2152.167	5640.	539.	2996849.424	1731.141	542.6	688.	3125.	5382.
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	11	300.	325.455	460.	200.	6207.273	78.786	210.	260.	400.	452.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	11	11.7	11.764	16.7	8.7	6.579	2.565	8.76	9.	13.7	16.24
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	10	104.35	109.64	140.6	92.3	292.272	17.096	92.61	96.	119.95	140.26
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	8	2.05	2.188	4.8	0.9	1.37	1.17	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	10	8.55	8.73	9.4	8.1	0.231	0.481	8.11	8.35	9.3	9.39
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	10	8.547	8.531	9.4	8.1	0.275	0.525	8.11	8.35	9.3	9.39
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	10	0.003	0.003	0.008	0.	0.	0.003	0.	0.001	0.005	0.008
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	12	8.35	8.333	8.7	7.9	0.079	0.281	7.9	8.125	8.575	8.7

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

Annual Analysis for 1980 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	12	8.347	8.249	8.7	7.9	0.086	0.294	7.9	8.125	8.575	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	12	0.004	0.006	0.013	0.002	0.	0.004	0.002	0.003	0.008	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	133.5	137.417	226.	78.	1453.72	38.128	87.	113.25	156.5	210.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	12	11.	18.25	55.	1.	326.386	18.066	1.3	5.	33.75	52.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.08	0.082	0.17	0.03	0.001	0.039	0.033	0.053	0.09	0.158
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	12	0.465	0.452	0.73	0.16	0.029	0.171	0.184	0.29	0.57	0.697
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	12	0.985	0.991	1.68	0.12	0.21	0.458	0.228	0.633	1.273	1.671
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	12	0.104	0.107	0.16	0.039	0.001	0.033	0.051	0.09	0.131	0.157
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	169.	176.833	234.	114.	1462.152	38.238	120.6	146.5	213.	231.
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	16.	17.	29.	4.	68.545	8.279	5.5	11.	25.75	28.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	10	64.5	63.8	100.	31.	617.733	24.854	31.4	39.5	83.	99.2
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	9	0.12	0.111	0.13	0.08	0.	0.018	0.08	0.095	0.125	0.13
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	11 ##	0.5	1.818	5.	0.5	2.614	1.617	0.5	0.5	3.	4.6
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	10.	10.833	20.	10.	8.333	2.887	10.	10.	10.	17.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	4	35.	33.5	54.	10.	406.333	20.158	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	400.	1963.182	8000.	5.	9660221.364	3108.09	14.	50.	3000.	8000.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	2.602	2.526	3.903	0.699	1.065	1.032	0.899	1.699	3.477	3.903
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			335.429								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	12	40.	48.75	200.	5.	3041.477	55.15	5.	6.25	67.5	164.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	12	1.602	1.409	2.301	0.699	0.311	0.558	0.699	0.774	1.828	2.182
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			25.638								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	237.	242.583	387.	123.	6829.538	82.641	133.8	172.25	317.5	369.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	7.	9.364	24.	2.	55.255	7.433	2.2	4.	11.	23.8

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Annual Analysis for 1981 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	6	10.4	10.033	20.	0.	82.359	9.075	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	10	704.	982.1	2822.	216.	631169.878	794.462	231.6	411.75	1320.75	2712.3
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	6	12.5	12.5	20.	5.	27.5	5.244	**	**	**	**
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	13	1.	1.077	2.	1.	0.077	0.277	1.	1.	1.	1.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	6	420.	378.333	550.	210.	17576.667	132.577	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	3	11.4	11.4	15.	7.8	12.96	3.6	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	2	101.5	101.5	115.	88.	364.5	19.092	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	6	7.85	8.017	8.9	7.7	0.198	0.445	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	6	7.847	7.9	8.9	7.7	0.214	0.463	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	6	0.014	0.013	0.02	0.001	0.	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	5	8.2	8.22	8.6	8.	0.062	0.249	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	5	8.2	8.17	8.6	8.	0.065	0.255	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	5	0.006	0.007	0.01	0.003	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	129.	123.667	175.	69.	1401.467	37.436	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	6	13.5	22.667	56.	5.	399.867	19.997	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	13	0.06	0.06	0.08	0.02	0.	0.019	0.028	0.045	0.08	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	13	0.51	0.527	0.95	0.23	0.047	0.216	0.242	0.33	0.695	0.882
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	13	1.07	1.059	1.96	0.2	0.309	0.556	0.292	0.525	1.55	1.844
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	13	0.185	0.176	0.28	0.025	0.005	0.067	0.067	0.13	0.227	0.272
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	6	181.	174.667	250.	96.	3316.267	57.587	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	6	20.5	19.167	27.	9.	55.767	7.468	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	13	103.	95.308	165.	36.	1657.897	40.717	36.4	56.	121.	158.2
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	6	0.095	0.1	0.12	0.08	0.	0.017	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	13 ##	2.	2.154	4.	2.	0.308	0.555	2.	2.	2.	3.2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	6 ##	0.5	0.917	3.	0.5	1.042	1.021	**	**	**	**

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Annual Analysis for 1981 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	13 ##	10.	11.538	20.	10.	14.103	3.755	10.	10.	10.	20.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	5	50.	56.4	100.	24.	768.8	27.727	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	3	30.	80.	200.	10.	10900.	104.403	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	3	1.477	1.593	2.301	1.	0.433	0.658	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			39.149								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	3 ##	5.	10.	20.	5.	75.	8.66	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	3 ##	0.699	0.9	1.301	0.699	0.121	0.348	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.937								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	6	315.	291.333	419.	155.	11145.867	105.574	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	12	8.5	12.917	40.	2.	117.356	10.833	2.9	6.	18.75	35.5

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Annual Analysis for 1982 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	12	16.7	14.375	25.1	0.	75.88	8.711	0.69	6.	22.05	24.59
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	11	1860.	2078.909	3840.	522.	1119917.691	1058.262	553.8	1380.	3060.	3705.
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	12	7.5	8.75	15.	5.	18.75	4.33	5.	5.	13.75	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	12	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	12	325.	315.	400.	190.	6263.636	79.143	193.	252.5	400.	400.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	2	9.65	9.65	10.2	9.1	0.605	0.778	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	8	79.	79.25	93.	62.	90.214	9.498	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	11	2.2	2.209	4.5	0.1	1.879	1.371	0.14	1.5	3.5	4.38
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	12	7.75	7.675	8.3	7.1	0.128	0.357	7.13	7.35	7.875	8.24
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	12	7.747	7.545	8.3	7.1	0.146	0.382	7.13	7.35	7.875	8.24
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	12	0.018	0.029	0.079	0.005	0.001	0.023	0.006	0.013	0.045	0.075
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	12	8.1	8.025	8.3	7.7	0.053	0.23	7.7	7.8	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	12	8.1	7.968	8.3	7.7	0.056	0.238	7.7	7.8	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	12	0.008	0.011	0.02	0.005	0.	0.006	0.005	0.006	0.016	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	113.	118.583	158.	74.	717.72	26.79	79.7	99.	144.75	157.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	12	14.5	18.5	48.	3.	207.909	14.419	3.3	7.25	31.25	44.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.065	0.075	0.21	0.03	0.002	0.048	0.03	0.05	0.08	0.18
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	12	0.385	0.433	0.95	0.1	0.057	0.24	0.139	0.27	0.57	0.899
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	11	1.08	1.123	1.81	0.6	0.218	0.467	0.604	0.65	1.65	1.78
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	12	0.126	0.135	0.26	0.038	0.005	0.073	0.043	0.069	0.209	0.251
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	161.	154.5	222.	94.	1279.364	35.768	101.2	121.	178.	211.2
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	18.5	17.75	31.	7.	48.932	6.995	7.9	11.25	23.	28.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	12	47.5	48.333	76.	30.	272.97	16.522	30.3	32.5	64.5	74.2
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.115	0.113	0.16	0.06	0.001	0.03	0.063	0.1	0.135	0.157
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	12 ##	0.5	1.958	6.	0.5	3.975	1.994	0.5	0.5	3.	5.7
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	4	39.	84.	240.	18.	11154.667	105.616	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	1000.	857.273	2300.	100.	331481.818	575.745	146.	500.	1000.	2040.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	3.	2.829	3.362	2.	0.125	0.353	2.104	2.699	3.	3.289
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			675.133								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	11	100.	104.091	280.	5.	7464.091	86.395	6.	30.	180.	260.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	11	2.	1.795	2.447	0.699	0.305	0.552	0.759	1.477	2.255	2.409
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			62.429								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	234.	227.	298.	146.	2976.	54.553	150.5	175.5	273.25	295.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	10	7.	8.4	17.	3.	24.489	4.949	3.	3.75	12.	16.8

** - 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 1983 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	11	17.7	16.382	30.4	2.7	108.224	10.403	2.74	5.6	28.5	30.06
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	12	1345.	3481.583	14700.	608.	17451461.902	4177.495	610.7	684.5	4922.5	12546.
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	11	10.	11.818	20.	5.	31.364	5.6	5.	5.	15.	20.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	11	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	12	350.	337.5	500.	140.	9802.273	99.006	170.	275.	397.5	491.
00300	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	8	93.5	91.125	110.	64.	168.696	12.988	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	11	2.1	2.309	5.2	0.5	2.421	1.556	0.56	1.1	3.7	5.08
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	12	7.55	7.633	8.5	6.7	0.233	0.483	6.85	7.4	7.95	8.44
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	12	7.547	7.394	8.5	6.7	0.296	0.544	6.85	7.4	7.95	8.44
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	12	0.028	0.04	0.2	0.003	0.003	0.053	0.004	0.011	0.04	0.159
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	12	8.05	8.092	8.6	7.6	0.119	0.345	7.63	7.8	8.375	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	12	8.047	7.978	8.6	7.6	0.133	0.365	7.63	7.8	8.375	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	12	0.009	0.011	0.025	0.003	0.	0.007	0.003	0.004	0.016	0.024
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	135.	124.667	157.	65.	998.97	31.606	68.9	94.25	150.	155.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	12	14.	52.833	391.	0.5	11951.924	109.325	0.5	2.	60.25	294.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	12	0.11	0.103	0.19	0.02	0.003	0.051	0.026	0.06	0.135	0.184
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	11	0.4	0.407	0.72	0.2	0.023	0.151	0.212	0.26	0.52	0.688
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	12	0.965	1.025	1.73	0.63	0.11	0.332	0.633	0.698	1.265	1.598
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	12	0.109	0.118	0.308	0.044	0.005	0.07	0.047	0.075	0.136	0.267
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	12	158.	154.5	192.	100.	847.364	29.11	103.6	138.5	180.	188.4
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	12	11.5	14.667	28.	3.	61.697	7.855	4.5	9.	22.	27.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	12	43.	43.333	72.	18.	379.333	19.476	19.2	26.25	60.75	72.
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	12	0.115	0.18	0.9	0.08	0.052	0.229	0.08	0.085	0.155	0.678
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	9 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	9 ##	0.5	2.111	6.	0.5	5.924	2.434	0.5	0.5	5.	6.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	12 ##	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	4	40.	40.	60.	20.	277.333	16.653	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	11	1000.	2909.091	15000.	100.	22054909.091	4696.265	100.	100.	3000.	13680.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	11	3.	2.908	4.176	2.	0.612	0.783	2.	2.	3.477	4.126
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			809.852								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	12	30.	382.917	1500.	5.	388565.72	623.35	6.5	12.5	965.	1500.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	12	1.477	1.808	3.176	0.699	0.809	0.9	0.789	1.075	2.89	3.176
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			64.242								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	12	203.	215.167	348.	127.	5080.152	71.275	129.4	142.5	276.	330.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	11	6.	18.545	82.	3.	575.873	23.997	3.	4.	30.	72.4

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

Annual Analysis for 1984 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	6	12.15	13.45	25.9	1.4	99.195	9.96	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	6	1625.	3055.167	8510.	820.	9000096.167	3000.016	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	9	10.	9.444	15.	5.	15.278	3.909	5.	5.	12.5	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	9	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	9	350.	342.222	440.	190.	9219.444	96.018	190.	260.	440.	440.
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	6	103.	113.5	173.	90.	943.1	30.71	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	9	1.5	1.256	2.5	0.1	0.8	0.895	0.1	0.3	2.05	2.5
00400	PH (STANDARD UNITS)	09/18/46-07/03/84	6	7.9	7.95	8.3	7.6	0.067	0.259	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	6	7.9	7.889	8.3	7.6	0.071	0.267	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	6	0.013	0.013	0.025	0.005	0.	0.007	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	9	8.	7.944	8.2	7.6	0.038	0.194	7.6	7.8	8.1	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	9	8.	7.903	8.2	7.6	0.04	0.199	7.6	7.8	8.1	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	9	0.01	0.012	0.025	0.006	0.	0.006	0.006	0.008	0.016	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	9	117.	124.889	161.	77.	920.361	30.337	77.	101.5	155.	161.

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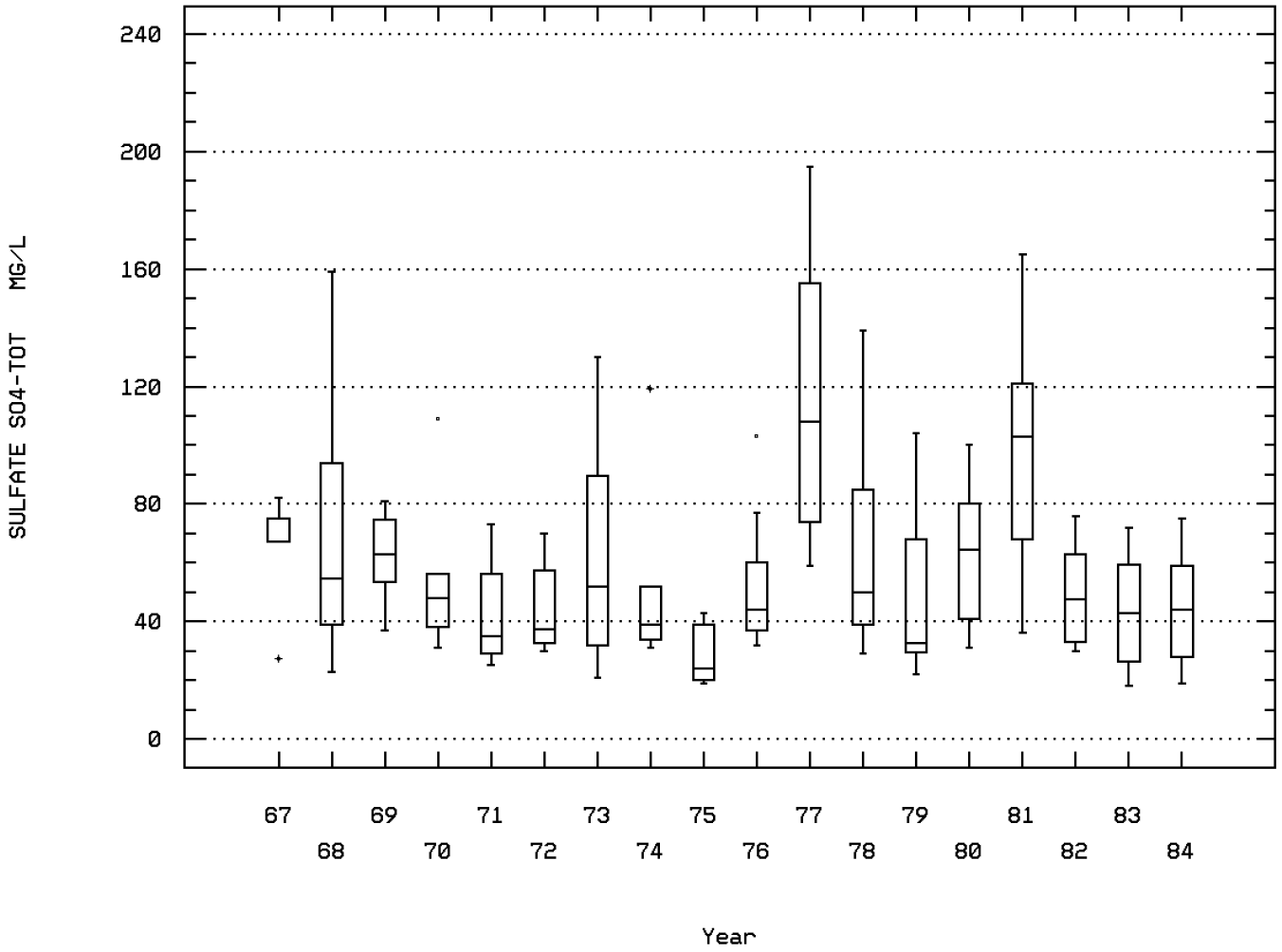
Annual Analysis for 1984 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	9	16.	21.889	60.	1.	449.111	21.192	1.	3.	39.	60.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	9	0.06	0.063	0.12	0.03	0.001	0.027	0.03	0.045	0.08	0.12
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	9	0.52	0.454	0.62	0.08	0.034	0.184	0.08	0.35	0.56	0.62
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	8	1.45	1.536	1.94	1.28	0.062	0.249	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	9	0.073	0.083	0.135	0.038	0.001	0.035	0.038	0.055	0.12	0.135
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	9	114.	117.778	210.	44.	3391.444	58.236	44.	56.	166.	210.
00940	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	9	17.	15.	22.	4.	39.25	6.265	4.	9.	20.	22.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	9	44.	46.222	75.	19.	443.944	21.07	19.	25.	65.5	75.
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	9	0.16	0.148	0.18	0.07	0.001	0.039	0.07	0.12	0.18	0.18
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	9 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	9 ##	0.5	1.556	4.	0.5	2.59	1.609	0.5	0.5	3.5	4.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	9 ##	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	3	26.	27.667	33.	24.	22.333	4.726	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	7	2000.	4814.286	13000.	300.	28984761.905	5383.75	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	7	3.301	3.386	4.114	2.477	0.353	0.595	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2433.54								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	50.	128.571	370.	20.	23180.952	152.253	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	7	1.699	1.849	2.568	1.301	0.249	0.499	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			70.656								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	9	228.	227.667	311.	136.	4535.5	67.346	136.	164.5	288.5	311.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/02/79-10/02/84	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	8	8.5	11.75	32.	1.	131.357	11.461	**	**	**	**

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Station: HAFE0100 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)



Shenandoah River near Meyerstown, W. VA

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	21	24.5	23.605	30.	18.	17.613	4.197	18.	20.	27.5	28.66
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	30	68.65	69.563	82.4	51.5	85.647	9.255	57.97	61.875	78.6	80.6
00019	SAMPLE WEIGHT IN GRAMS	10/15/81-10/28/93	19	236.	365.526	1126.	52.	93377.708	305.578	82.	150.	618.	984.
00023	SAMPLE WEIGHT IN POUNDS	10/15/81-10/28/93	19	0.71	1.032	3.13	0.15	0.697	0.835	0.24	0.38	1.48	2.67
00024	SAMPLE LENGTH IN INCHES	10/15/81-10/28/93	19	11.5	12.415	20.87	5.79	17.52	4.186	6.93	9.72	16.5	18.19
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-04/03/84	15	945.	1554.067	6330.	385.	2205595.21	1485.125	473.8	780.	1960.	4074.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	23	765.	1093.957	7810.	216.	2259107.134	1503.033	463.8	617.	860.	1712.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/17/67-06/11/74	15	11.	64.333	750.	3.	36206.631	190.28	3.	3.	37.	330.
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	42	6.	8.417	25.	2.5	24.182	4.918	5.	5.	10.25	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	28	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	42	440.	439.929	700.	200.	10654.458	103.22	315.3	400.	480.	575.2
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	41	10.	10.046	13.4	5.3	4.096	2.024	7.24	8.55	11.95	12.74
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	38	112.35	109.787	158.	62.	504.954	22.471	82.54	92.	124.25	140.81
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	48	2.1	2.735	7.3	0.3	3.391	1.841	0.59	1.5	4.425	5.52
00400p	PH (STANDARD UNITS)	09/18/46-07/03/84	27	8.3	8.356	9.5	7.2	0.51	0.714	7.4	7.8	9.2	9.32
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	27	8.3	7.927	9.5	7.2	0.701	0.837	7.4	7.8	9.2	9.32
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	27	0.005	0.012	0.063	0.	0.	0.015	0.	0.001	0.016	0.04
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	43	8.3	8.314	8.9	7.6	0.11	0.331	7.8	8.1	8.6	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	43	8.3	8.183	8.9	7.6	0.127	0.357	7.8	8.1	8.6	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	43	0.005	0.007	0.025	0.001	0.	0.006	0.002	0.003	0.008	0.016
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	51	142.	134.333	169.	74.	515.267	22.699	100.2	118.	152.	159.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/10/67-06/05/79	11	3.	3.545	8.	0.	7.473	2.734	0.	1.	6.	7.8
00500p	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	28	300.5	346.036	755.	220.	14662.851	121.09	233.7	258.75	402.	510.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/17/67-12/10/74	17	275.	260.882	478.	2.	19252.61	138.754	11.6	213.	374.5	408.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	43	20.	50.523	508.	0.5	9384.249	96.872	3.8	9.	32.	179.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	31	0.07	0.078	0.22	0.015	0.002	0.047	0.03	0.05	0.09	0.164
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-10/23/74	17	0.89	2.436	19.9	0.005	23.025	4.798	0.081	0.355	1.55	8.7
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	31	0.52	0.546	0.95	0.2	0.035	0.186	0.29	0.42	0.7	0.8
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	28	0.65	0.717	1.9	0.01	0.226	0.476	0.029	0.405	0.955	1.423
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	31	0.14	0.157	0.391	0.038	0.006	0.077	0.074	0.11	0.2	0.271
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/18/76-10/02/84	15	10.	14.667	35.	3.	122.095	11.05	3.6	5.	26.	33.8
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	12	0.002	0.002	0.007	0.001	0.	0.002	0.001	0.001	0.004	0.006
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	50	181.	176.98	308.	44.	2311.979	48.083	118.2	156.5	210.	223.8
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	16	28.	37.156	94.	9.7	550.464	23.462	14.81	22.05	48.725	87.7
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	16	3.05	2.891	3.8	0.2	0.723	0.851	1.6	2.625	3.413	3.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	51	18.	20.137	44.	7.	82.881	9.104	9.2	13.	26.	33.6
00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	46	77.	85.717	195.	22.	1652.341	40.649	33.7	59.75	105.25	150.1
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	38	0.125	0.168	1.	0.005	0.04	0.201	0.089	0.1	0.153	0.18
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	10 ##	1.	3.	15.	1.	20.222	4.497	1.	1.	3.	14.1
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	33 ##	2.	2.273	6.	1.	1.017	1.008	2.	2.	2.	4.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	38 ##	0.5	2.487	30.	0.5	23.682	4.866	0.5	0.5	3.	4.1
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	18 ##	3.	4.444	14.	2.	11.908	3.451	2.	2.	5.75	10.4
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	13	8.	7.538	14.	2.	19.603	4.427	2.	3.	11.5	14.
01045	IRON, TOTAL (UG/L AS FE)	07/17/67-09/18/84	26	150.	289.769	2500.	10.	239690.985	489.582	18.2	67.5	345.	658.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	34 ##	20.	21.324	50.	10.	165.619	12.869	10.	10.	22.5	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	30	42.	53.967	180.	2.	1533.826	39.164	10.6	23.	82.	99.2
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	11 ##	20.	21.	40.	11.	47.	6.856	12.8	20.	20.	36.
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	14 ##	2.	2.821	8.	1.	3.293	1.815	1.5	2.	3.625	6.5
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	18	46.	58.778	172.	2.	1705.595	41.299	12.8	27.75	85.	123.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-09/18/84	10	260.	277.2	540.	100.	19296.178	138.911	104.	155.	390.	528.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	9 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01360	SAMPLE LENGTH CM	10/15/81-10/28/93	15	26.	28.867	47.	14.	115.981	10.769	15.8	19.	38.	46.4
01361	SAMPLE LENGTH-MAXIMUM CM	10/15/81-10/28/93	15	34.	34.333	57.	16.	161.524	12.709	17.8	21.	46.	52.2
01362	SAMPLE WEIGHT-MAXIMUM G	10/15/81-10/28/93	15	512.	599.067	1694.	80.	232167.495	481.838	114.8	195.	1074.	1427.6
01371	SAMPLE, AVERAGE LENGTH BIOLOGICAL TISS.COMP. CM	10/15/81-10/28/93	15	29.2	31.573	53.	14.7	139.412	11.807	16.44	19.8	42.	48.92
01373	SAMPLE, AVG WT BIOLOGICAL TISS OF COMPOSITE GRAMS	10/15/81-10/28/93	15	320.	485.733	1421.	66.	175128.067	418.483	92.4	166.	846.	1295.
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	42	1000.	8926.19	180000.	40.	802774014.402	28333.267	100.	275.	5375.	19500.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	42	3.	3.071	5.255	1.602	0.776	0.881	2.	2.433	3.716	4.287
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1178.728								

** - Less 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 10/31 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	40	50.	40962.4	1500000.	5.	61413515	21.169	236941.663	10.	20.	177.5	21762.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	40	1.699	1.993	6.176	0.699	1.371	1.171	1.	1.301	2.249	4.263
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			98.339								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	17	40.	6354.118	106800.	5.	670006785.11	25884.489	5.	10.	190.	21624.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	17	1.602	1.725	5.029	0.699	1.063	1.031	0.699	1.	2.279	3.021
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			53.067								
34670	PCB - 1260 WET WGTTISMG/KG	10/15/81-10/28/93	16	0.355	2.392	11.8	0.	16.433	4.054	0.018	0.157	4.283	11.758
39512	PCB - 1254 IN FISH OR ANIMALS WET WGT UG/KG	10/15/81-10/11/89	12 ##	0.	0.004	0.025	0.	0.	0.01	0.	0.	0.	0.025
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	26	290.5	292.077	526.	135.	6259.754	79.119	189.4	238.75	329.	387.
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	20 ##	0.1	0.135	0.5	0.1	0.01	0.099	0.1	0.1	0.1	0.29
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/15/81-10/28/93	19	5.	4.474	5.	2.	1.041	1.02	2.	4.	5.	5.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	30	9.9	11.943	60.	3.	117.034	10.818	3.05	5.5	14.25	20.9

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

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	26	5.05	5.231	16.5	0.	21.297	4.615	0.	0.825	9.075	11.86
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	43	42.	42.537	60.	32.	47.729	6.909	32.78	37.4	47.	52.54
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-04/03/84	23	2320.	4000.87	12200.	1070.	10482990.119	3237.745	1410.	1930.	6140.	10160.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	22	1810.	2441.182	7520.	527.	3878028.727	1969.271	551.6	1092.5	3333.75	6441.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/17/67-06/11/74	22	7.	17.886	110.	2.	631.927	25.138	3.	4.75	19.5	48.8
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	62	5.	7.032	15.	2.5	13.171	3.629	2.5	5.	10.	11.4
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	40	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	63	304.	326.619	580.	125.	8075.465	89.864	208.	285.	370.	440.
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	51	11.8	12.018	16.7	6.9	3.847	1.962	9.66	11.	13.2	14.92
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	41	95.4	95.168	139.4	47.5	249.825	15.806	79.34	88.2	105.	113.7
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	44	1.8	1.893	5.9	0.1	1.306	1.143	0.55	1.2	2.275	2.85
00400p	PH (STANDARD UNITS)	09/18/46-07/03/84	35	8.3	8.351	9.4	6.7	0.622	0.789	7.38	7.8	9.2	9.3
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	35	8.3	7.75	9.4	6.7	0.995	0.998	7.38	7.8	9.2	9.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	35	0.005	0.018	0.2	0.	0.001	0.036	0.001	0.001	0.016	0.044
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	63	8.1	8.103	8.6	7.2	0.072	0.268	7.74	7.9	8.3	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	63	8.1	8.011	8.6	7.2	0.08	0.283	7.74	7.9	8.3	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	63	0.008	0.01	0.063	0.003	0.	0.009	0.004	0.005	0.013	0.018
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	65	121.	121.862	226.	68.	915.871	30.263	83.	101.	136.5	158.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/10/67-06/05/79	29	3.	3.138	7.	1.	2.623	1.62	1.	2.	4.	5.
00500p	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	38	228.	236.711	365.	147.	3008.482	54.85	160.4	206.	275.75	334.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/17/67-12/10/74	23	192.	192.957	332.	13.	6037.953	77.704	62.	161.	235.	310.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	65	9.	25.031	222.	0.	1834.483	42.831	1.	3.	22.	77.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	45	0.07	0.081	0.26	0.02	0.003	0.053	0.03	0.045	0.095	0.156
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-10/23/74	22	1.13	1.444	5.4	0.68	1.276	1.13	0.7	0.843	1.44	3.377
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	44	0.395	0.41	0.85	0.08	0.039	0.198	0.18	0.233	0.568	0.685
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	44	1.26	1.245	1.96	0.62	0.104	0.323	0.81	0.982	1.453	1.67
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	44	0.131	0.136	0.281	0.039	0.004	0.067	0.05	0.082	0.171	0.25
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/18/76-10/02/84	21	13.	17.762	47.	2.	192.69	13.881	3.2	6.5	28.5	42.4
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	18	0.003	0.003	0.008	0.001	0.	0.002	0.001	0.001	0.005	0.007
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	62	156.	160.71	250.	90.	1413.914	37.602	118.	133.	178.5	221.
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	21	13.	14.229	41.	0.8	96.901	9.844	4.68	6.8	17.	32.2
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	20	1.95	1.98	3.7	1.2	0.257	0.507	1.42	1.625	2.1	2.47
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	65	14.	14.954	30.	4.	34.92	5.909	8.6	11.	19.	25.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	65	43.	53.923	165.	19.	899.885	29.998	27.	35.	67.5	95.2
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	62	0.12	0.266	6.5	0.05	0.673	0.82	0.08	0.08	0.143	0.461
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	15 ##	1.	4.033	15.	1.	24.517	4.951	1.	1.	7.	14.4
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	48 ##	2.	2.5	10.	1.	3.223	1.795	1.5	2.	2.	4.2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	57 ##	0.5	3.588	100.	0.	173.573	13.175	0.5	0.5	3.	6.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	24 ##	4.	5.877	50.	0.04	95.137	9.754	2.	2.	6.	10.

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Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	22	6.	7.227	20.	2.	24.374	4.937	2.	2.	10.	15.4
01045	IRON, TOTAL (UG/L AS FE)	07/17/67-09/18/84	40	165.	310.5	1680.	20.	150548.462	388.006	31.	100.	325.	1106.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	50 ##	20.	17.8	50.	10.	79.51	8.917	10.	10.	20.	30.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	44	26.	38.159	240.	2.	1497.858	38.702	10.	18.	49.	72.
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	12 ##	20.	20.	40.	10.	54.545	7.385	10.	20.	20.	34.
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	17 ##	2.	3.882	23.	1.	30.735	5.544	1.	2.	3.	14.2
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	24	45.	64.667	212.	5.	2806.406	52.976	18.5	34.	69.	171.
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-09/18/84	16	120.	186.25	960.	20.	51558.333	227.065	20.	55.	230.	540.
01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	12 ##	0.5	0.708	3.	0.5	0.521	0.722	0.5	0.5	0.5	2.25
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	64	190.	897.344	8400.	5.	2754081.721	1659.543	10.	50.	997.5	2550.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	64	2.278	2.287	3.924	0.699	0.728	0.854	1.	1.699	2.999	3.406
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			193.577								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	59	20.	110.339	1510.	5.	69067.124	262.806	5.	5.	80.	290.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	59	1.301	1.386	3.179	0.699	0.507	0.712	0.699	0.699	1.903	2.462
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			24.314								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	18	15.	41.944	400.	5.	8300.408	91.107	5.	5.	40.	94.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	18	1.151	1.217	2.602	0.699	0.291	0.539	0.699	0.699	1.602	1.861
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			16.487								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	41	216.	232.122	419.	121.	5647.51	75.15	138.6	181.	273.	343.
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	28 ##	0.1	0.146	0.6	0.1	0.012	0.11	0.1	0.1	0.1	0.3
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	40	5.5	8.375	40.	1.	85.454	9.244	2.	3.	10.	16.8

** - 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: 3/21 to 7/31 - Station HAFE0100

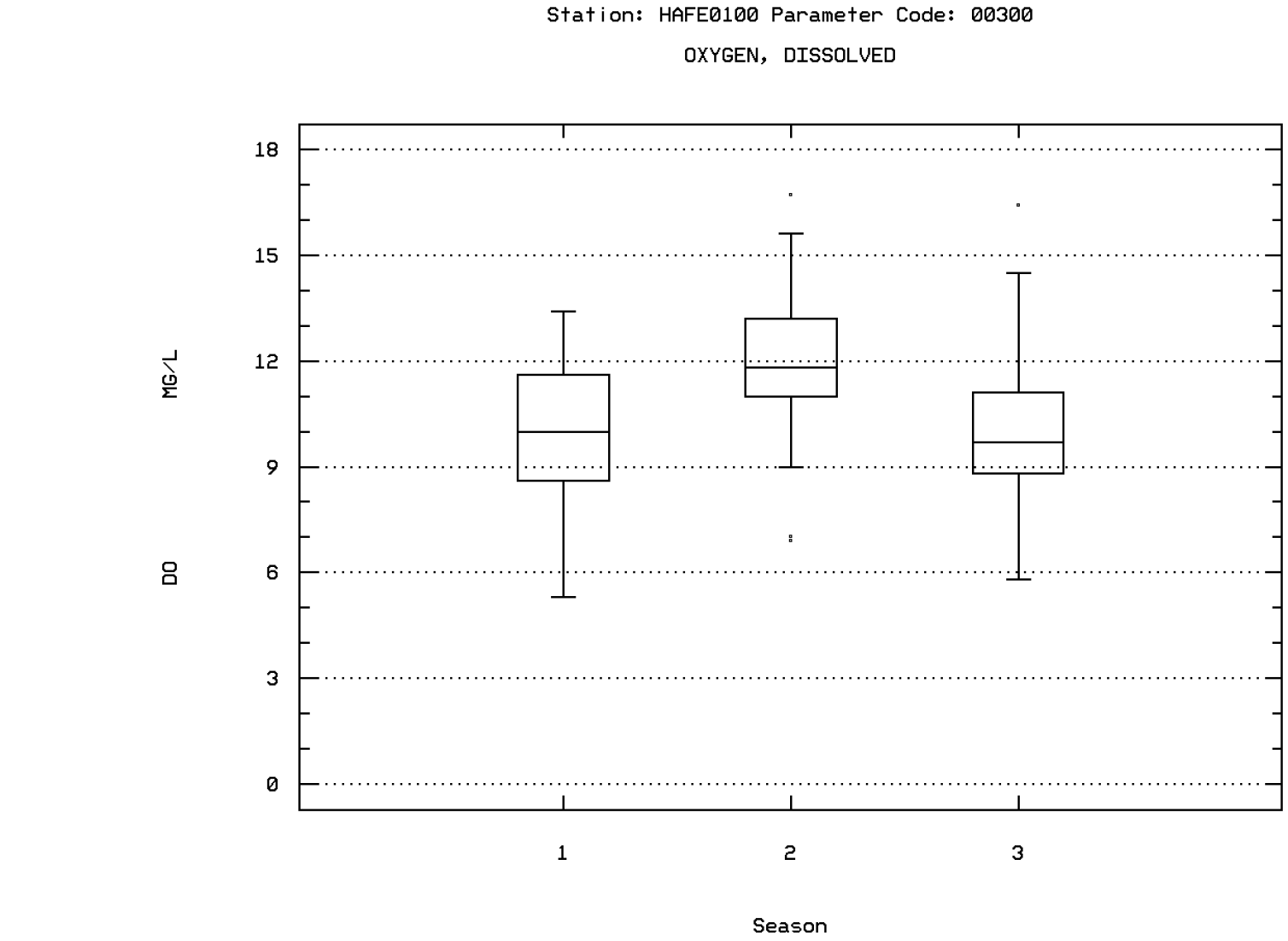
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/18/46-07/03/84	27	19.4	18.552	30.4	9.4	29.823	5.461	10.22	14.	23.4	24.38
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/21/68-11/04/80	39	70.7	69.526	84.	52.	94.101	9.701	56.9	60.1	78.8	82.
00060	FLOW, STREAM, MEAN DAILY CFS	01/21/69-04/03/84	19	2670.	4186.842	19800.	454.	23238121.474	4820.593	694.	1420.	4250.	12700.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/18/46-10/02/84	17	3060.	3815.176	14700.	372.	12230801.154	3497.256	736.	1283.	4870.	9748.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/17/67-06/11/74	21	18.	23.286	88.	3.	393.289	19.832	6.2	9.5	31.5	50.2
00080	COLOR (PLATINUM-COBALT UNITS)	07/17/67-10/02/84	55	6.	8.318	30.	2.5	28.003	5.292	2.5	5.	10.	15.
00087	ODOR (THRESHOLD NUMBER AT 40 DEG C)	03/18/75-10/02/84	36	1.	1.028	2.	1.	0.028	0.167	1.	1.	1.	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/67-10/02/84	56	300.	314.393	500.	140.	8268.352	90.93	197.	250.	389.5	443.
00300p	OXYGEN, DISSOLVED MG/L	09/18/46-02/01/83	41	9.7	10.059	16.4	5.8	4.635	2.153	7.16	8.75	11.25	12.8
00301p	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	09/18/46-07/03/84	43	98.	104.114	173.	64.	597.28	24.439	76.2	92.3	117.6	138.28
00310p	BOD, 5 DAY, 20 DEG C MG/L	09/18/46-10/02/84	49	2.	2.81	12.9	0.1	6.468	2.543	0.5	1.1	4.05	6.5
00400p	PH (STANDARD UNITS)	09/18/46-07/03/84	28	8.25	8.255	9.8	7.3	0.414	0.643	7.49	7.7	8.6	9.21
00400p	CONVERTED PH (STANDARD UNITS)	09/18/46-07/03/84	28	8.247	7.914	9.8	7.3	0.535	0.731	7.49	7.7	8.6	9.21
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/18/46-07/03/84	28	0.006	0.012	0.05	0.	0.	0.013	0.001	0.003	0.02	0.032
00403	PH, LAB, STANDARD UNITS SU	07/17/67-10/02/84	54	8.2	8.23	8.9	7.6	0.117	0.342	7.8	7.9	8.5	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	07/17/67-10/02/84	54	8.2	8.111	8.9	7.6	0.132	0.363	7.8	7.9	8.5	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/17/67-10/02/84	54	0.006	0.008	0.025	0.001	0.	0.005	0.002	0.003	0.013	0.016
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	56	110.5	113.304	168.	65.	710.106	26.648	75.7	93.25	137.75	147.9
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/10/67-06/05/79	16	2.	2.281	6.	0.5	2.466	1.57	0.85	1.	3.75	4.6
00500p	RESIDUE, TOTAL (MG/L)	10/13/49-09/19/78	33	238.	247.212	423.	172.	3486.172	59.044	183.4	204.5	276.	309.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/17/67-12/10/74	21	201.	195.762	275.	47.	2931.19	54.14	129.6	162.5	238.	261.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/17/67-10/02/84	56	21.5	44.089	391.	1.	4382.956	66.204	8.8	16.25	51.	71.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/10/74-10/02/84	38	0.08	0.091	0.7	0.	0.012	0.108	0.029	0.048	0.11	0.14
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/17/67-10/23/74	21	0.59	1.049	4.9	0.1	1.866	1.366	0.102	0.295	1.09	4.28
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/10/74-10/02/84	37	0.4	0.447	0.97	0.19	0.04	0.2	0.2	0.305	0.565	0.74
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/75-10/02/84	36	0.93	0.908	1.81	0.03	0.219	0.468	0.108	0.617	1.273	1.538
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/10/74-10/02/84	37	0.103	0.131	0.341	0.025	0.008	0.089	0.051	0.069	0.174	0.309
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/18/76-10/02/84	16	13.5	13.5	29.	1.	81.067	9.004	2.4	5.25	21.25	28.3
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/10/74-08/06/84	10	0.002	0.002	0.006	0.001	0.	0.002	0.001	0.001	0.004	0.006
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	09/18/46-10/02/84	52	140.	147.346	230.	94.	1088.741	32.996	108.6	121.	170.	195.8

** - 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: 3/21 to 7/31 - Station HAFE0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929	SODIUM, TOTAL (MG/L AS NA)	02/02/71-09/18/84	15	12.6	15.533	37.	6.2	90.468	9.511	6.32	7.7	19.	35.8
00937	POTASSIUM, TOTAL MG/L AS K)	02/02/71-09/18/84	12	1.8	1.954	3.4	1.2	0.305	0.552	1.32	1.613	2.175	3.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	09/18/46-10/02/84	55	12.	13.927	38.	3.	47.809	6.914	6.6	9.	19.	23.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/67-10/02/84	56	42.	47.786	142.	18.	649.844	25.492	22.	31.	56.75	80.3
00951	FLUORIDE, TOTAL (MG/L AS F)	11/13/67-10/02/84	50	0.105	0.162	1.32	0.005	0.037	0.192	0.08	0.09	0.16	0.261
01002	ARSENIC, TOTAL (UG/L AS AS)	04/20/71-09/18/84	12 ##	1.	3.25	15.	1.	17.477	4.181	1.	1.	5.	12.3
01027	CADMIUM, TOTAL (UG/L AS CD)	02/02/71-10/02/84	45 ##	2.	2.233	10.	1.	1.882	1.372	1.8	2.	2.	2.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/10/68-10/02/84	51 ##	0.5	1.667	8.	0.5	3.457	1.859	0.5	0.5	3.	4.8
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/10/74-09/18/84	13 ##	2.	3.231	10.	2.	5.692	2.386	2.	2.	4.	8.4
01042	COPPER, TOTAL (UG/L AS CU)	10/19/71-09/18/84	14	6.	6.607	14.	0.5	22.545	4.748	1.25	2.	10.5	14.
01045	IRON, TOTAL (UG/L AS FE)	07/17/67-09/18/84	31	150.	395.548	4800.	5.	723035.323	850.315	12.	70.	380.	764.
01051	LEAD, TOTAL (UG/L AS PB)	02/02/71-10/02/84	48 ##	20.	20.563	152.	10.	468.932	21.655	10.	10.	20.	31.6
01055	MANGANESE, TOTAL (UG/L AS MN)	01/21/68-09/18/84	39	40.	50.179	210.	4.	1394.73	37.346	20.	30.	58.	100.
01067	NICKEL, TOTAL (UG/L AS NI)	10/23/74-09/18/84	5 ##	20.	16.	20.	10.	30.	5.477	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/02/71-09/18/84	11 ##	2.	3.818	10.	1.	12.364	3.516	1.	1.	5.	10.
01092	ZINC, TOTAL (UG/L AS ZN)	07/25/72-09/18/84	15	40.	64.367	220.	0.5	5282.231	72.679	2.6	10.	80.	205.6
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/69-09/18/84	7	160.	212.857	460.	40.	24957.143	157.978	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/29/75-09/18/84	5 ##	0.5	0.6	1.	0.5	0.05	0.224	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/17/67-10/02/84	51	1000.	5516.667	50000.	5.	91010533.667	9539.944	50.	200.	7400.	16600.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/17/67-10/02/84	51	3.	3.009	4.699	0.699	0.981	0.991	1.699	2.301	3.869	4.22
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			1019.873								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	44	55.	244.773	1820.	5.	220538.319	469.615	5.	22.5	200.	1060.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/18/46-10/02/84	44	1.739	1.822	3.26	0.699	0.526	0.725	0.699	1.345	2.301	2.984
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			66.368								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/17/67-10/23/73	20	20.	119.25	1090.	5.	62437.566	249.875	5.	6.25	112.5	348.
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/17/67-10/23/73	20	1.301	1.477	3.037	0.699	0.521	0.722	0.699	0.774	2.048	2.542
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			30.021								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/18/75-10/02/84	35	189.	206.086	394.	123.	5099.198	71.409	132.4	151.	247.	315.4
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/70-09/18/84	16 ##	0.1	0.106	0.2	0.1	0.001	0.025	0.1	0.1	0.1	0.13
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/10/74-10/02/84	34	11.	18.832	100.	3.	456.627	21.369	3.5	6.	24.25	41.5

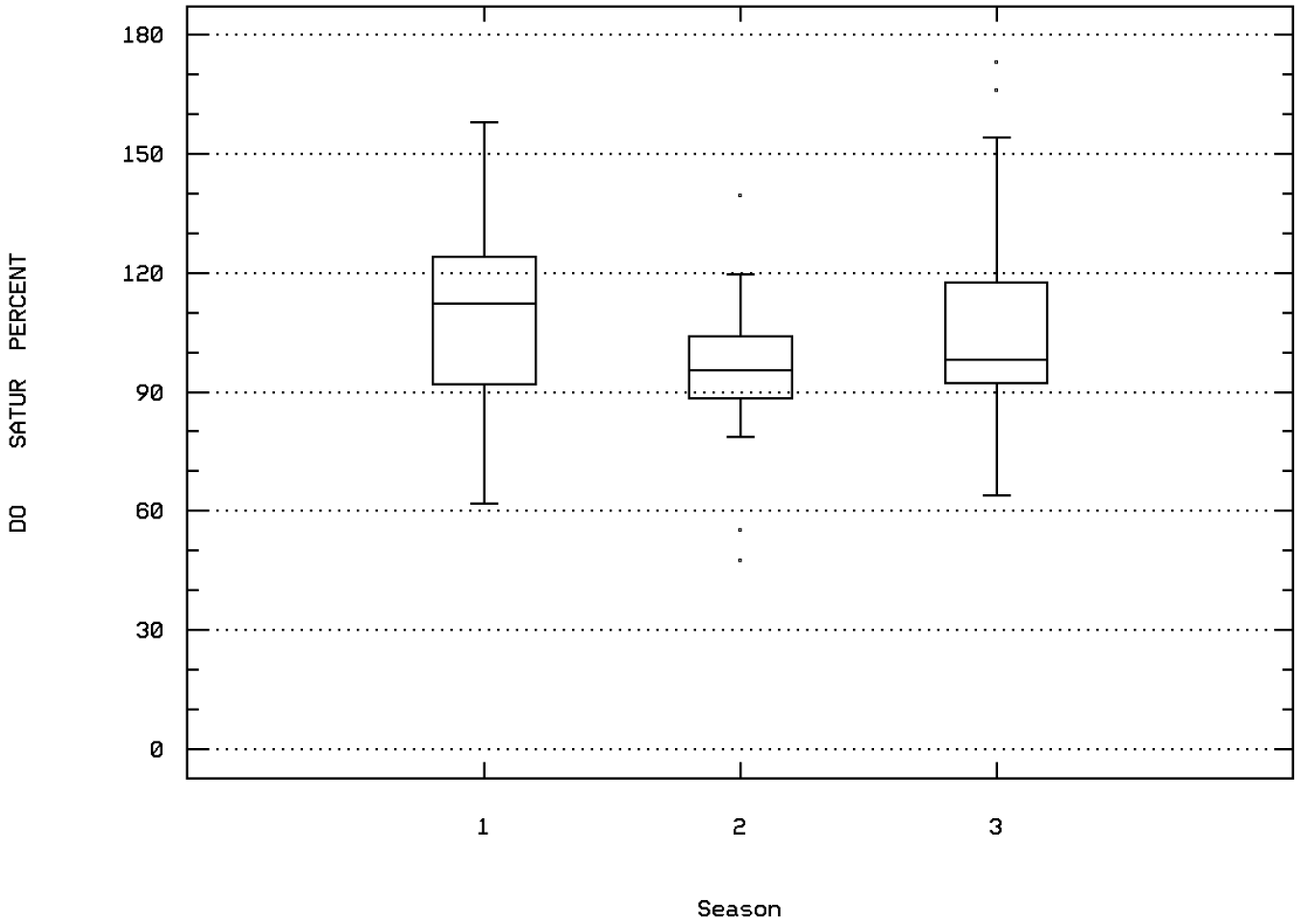
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00301

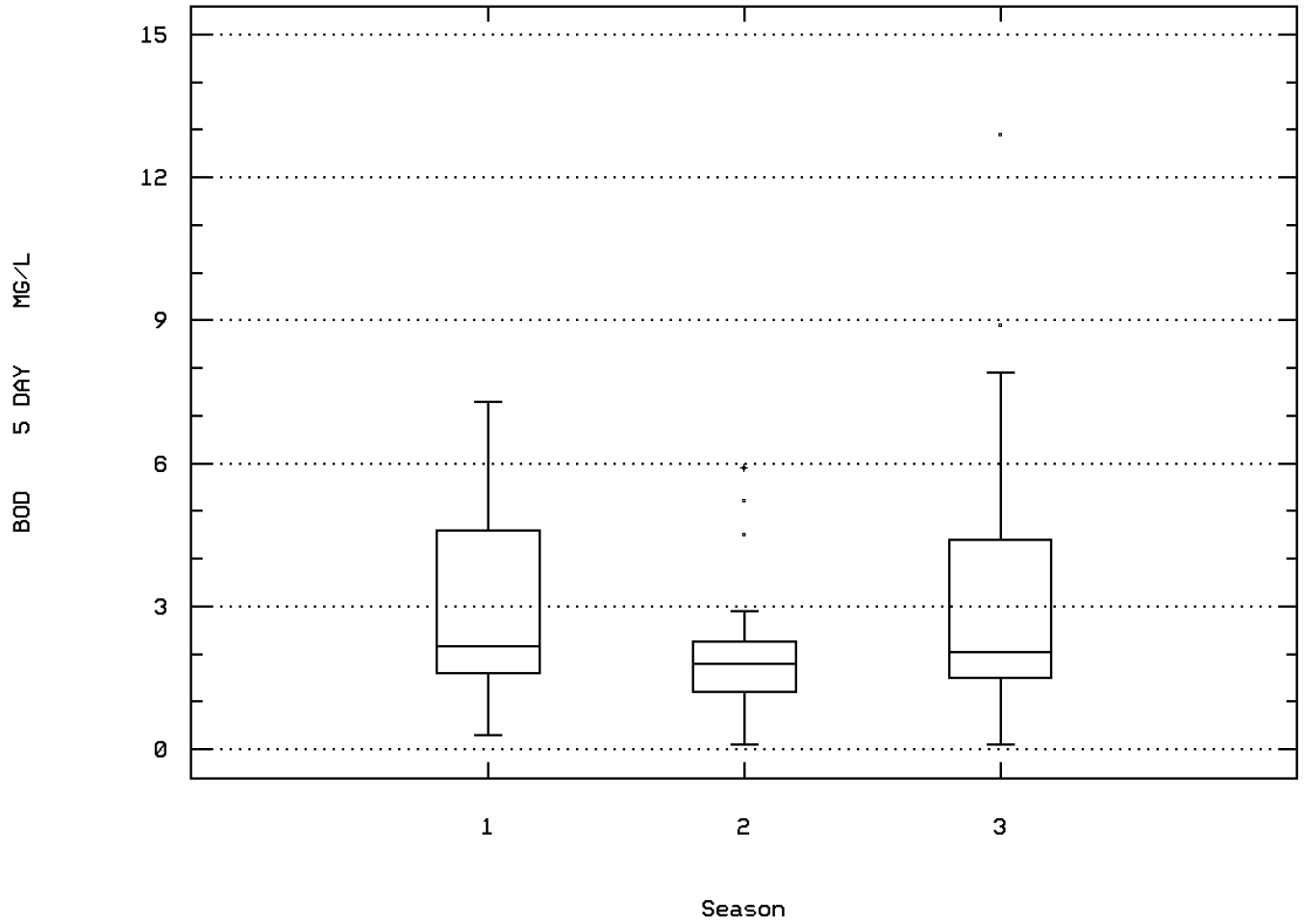
OXYGEN, DISSOLVED, PERCENT OF SATURATIO



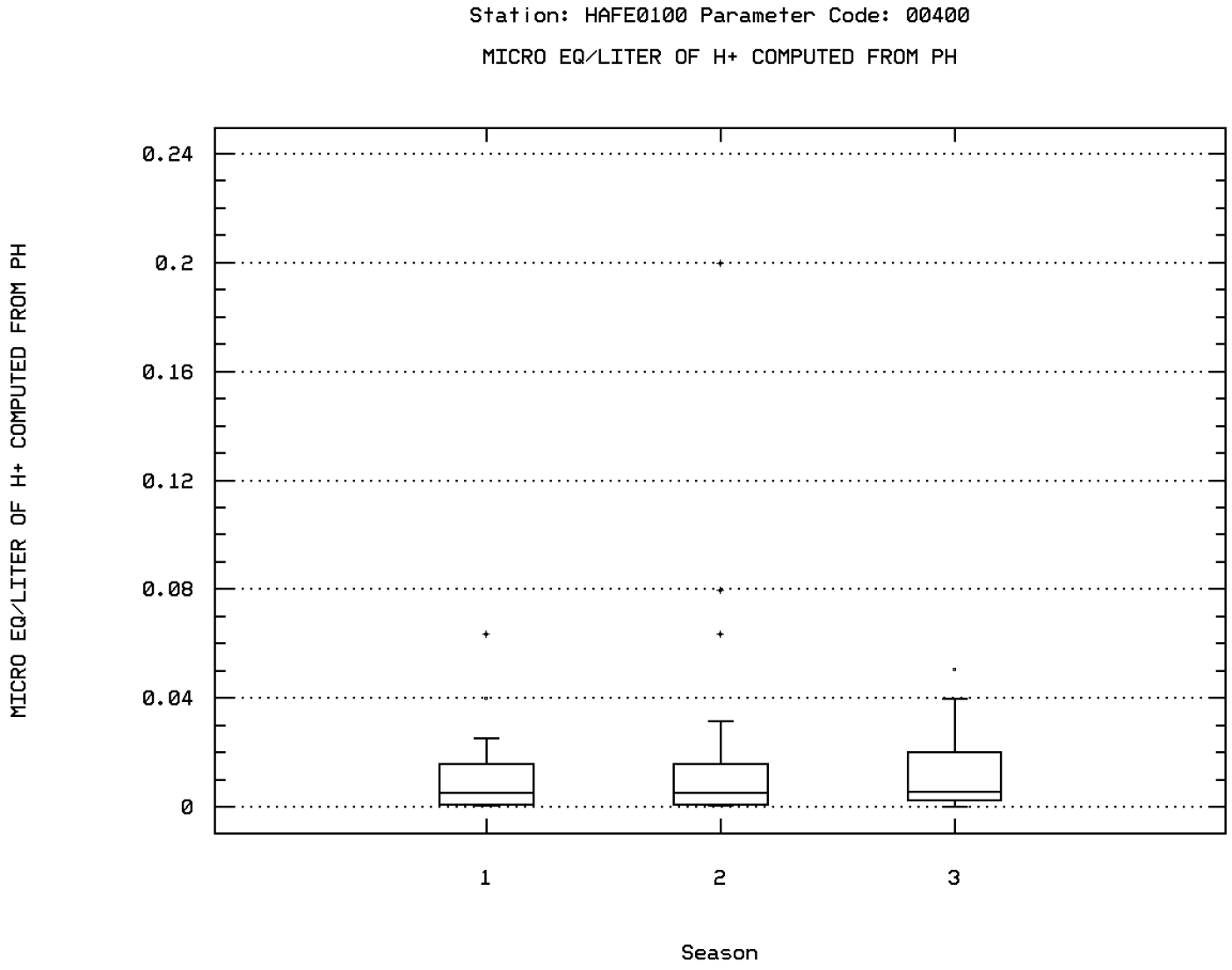
Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00310

BOD, 5 DAY, 20 DEG C



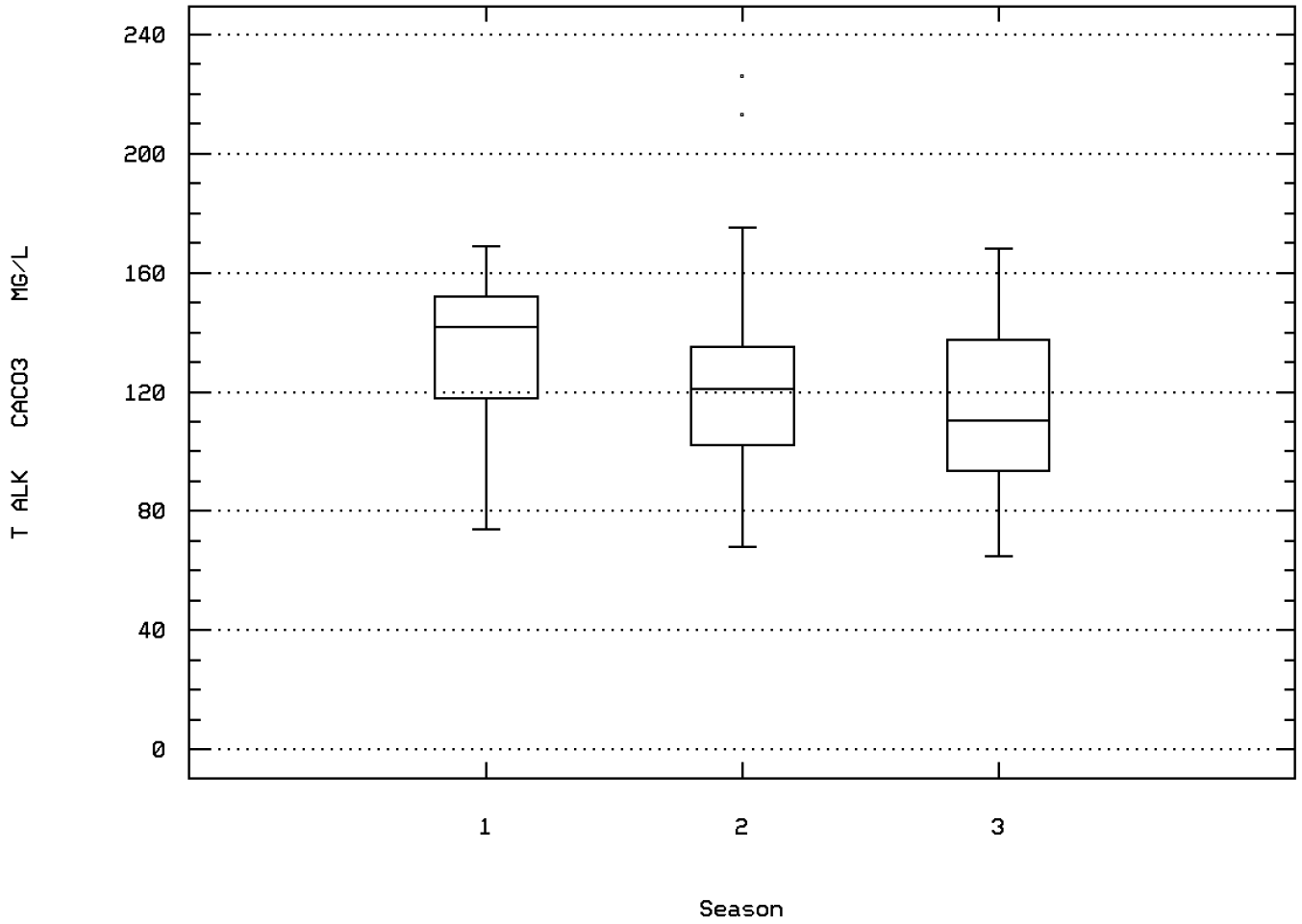
Shenandoah River near Meyerstown, W. VA



Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00410

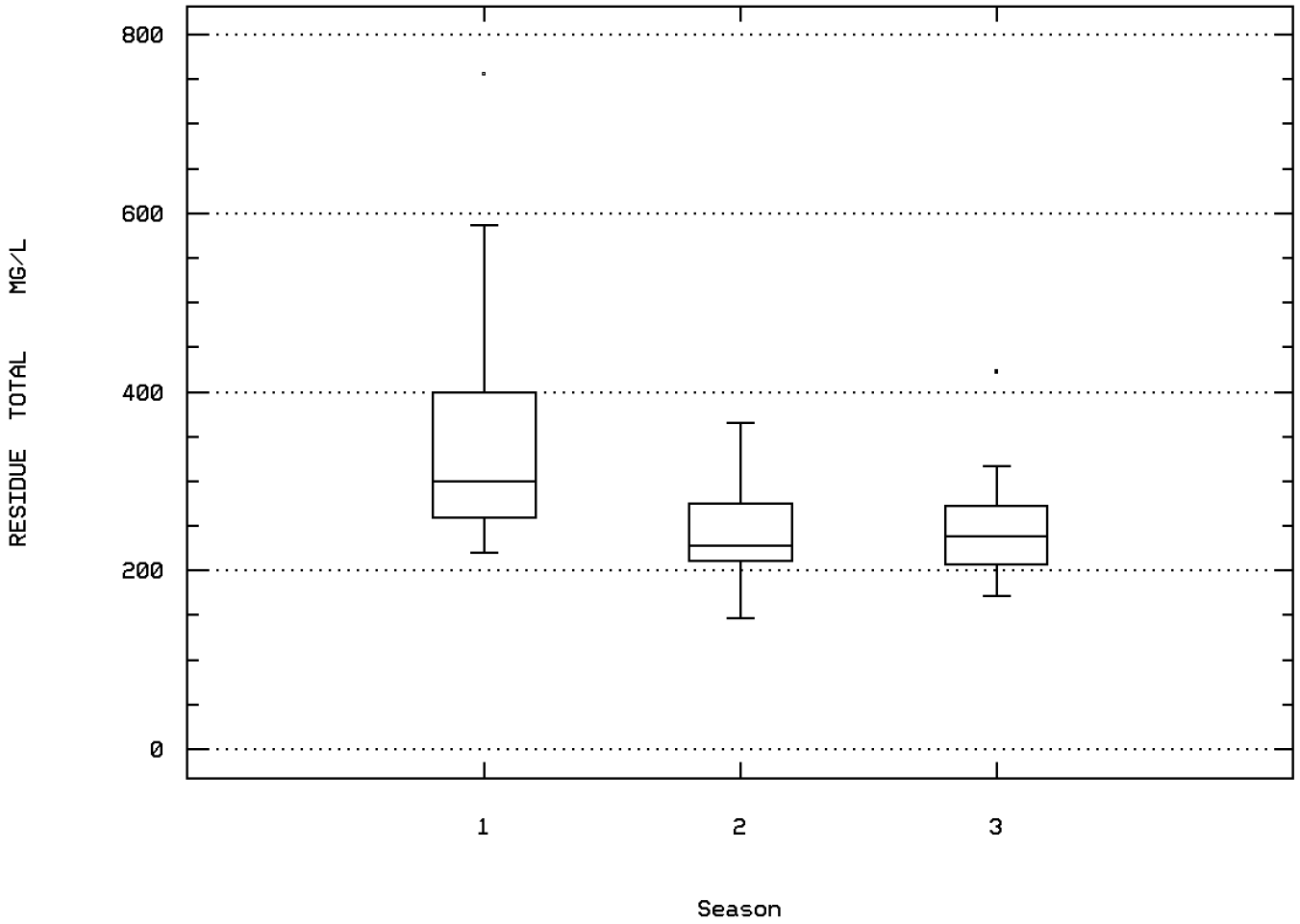
ALKALINITY, TOTAL (MG/L AS CACO3)



Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00500

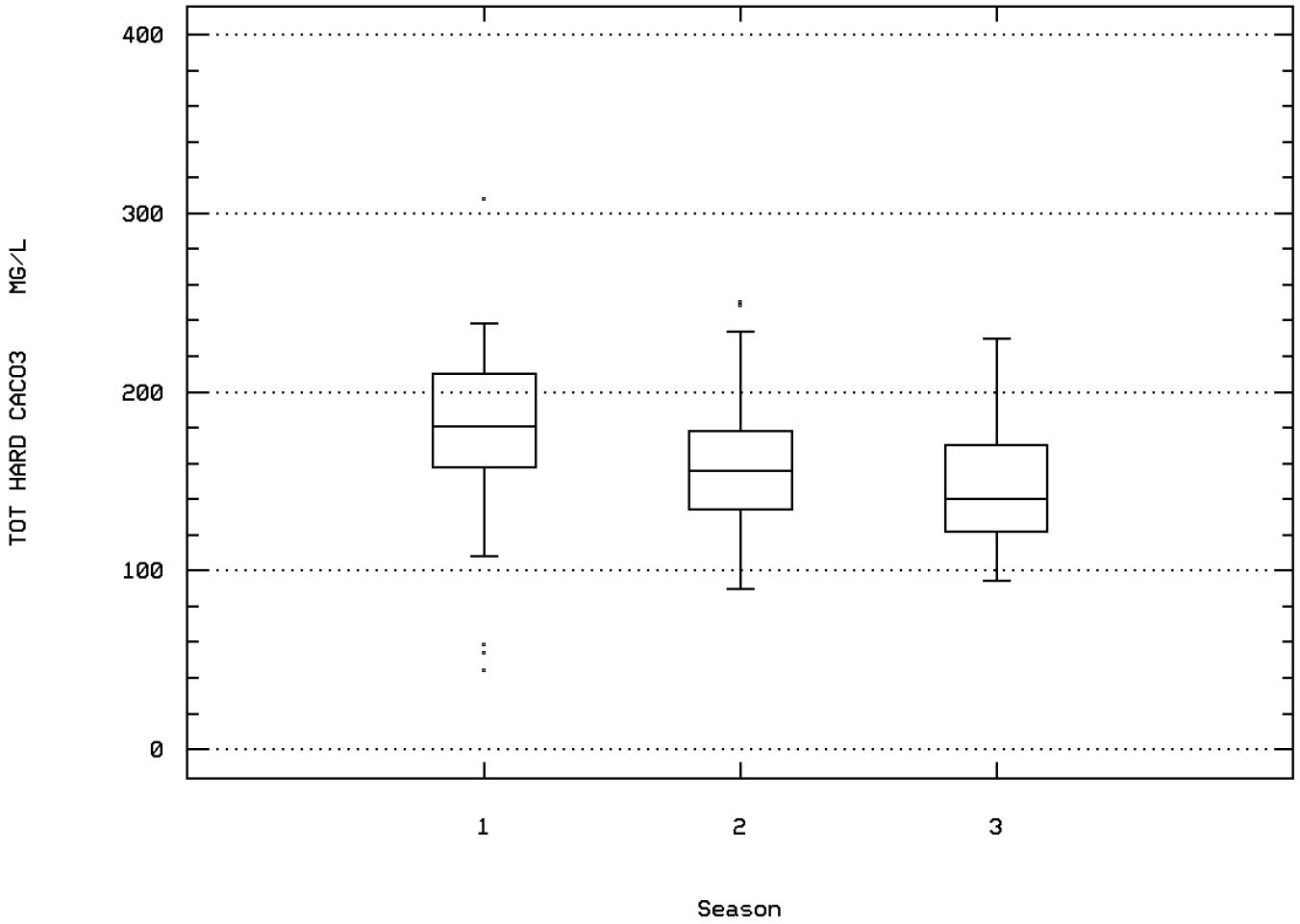
RESIDUE, TOTAL (MG/L)



Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00900

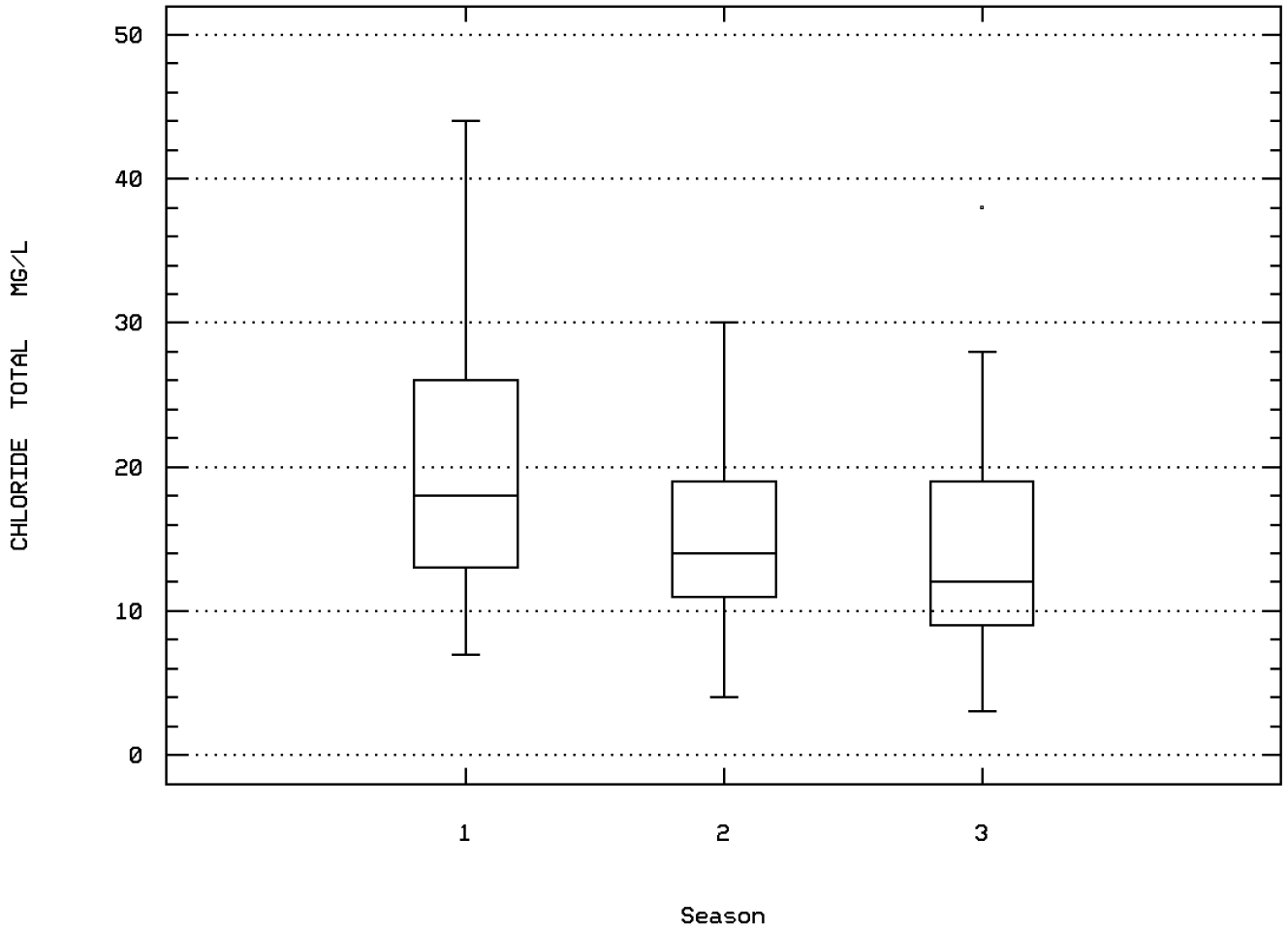
HARDNESS, TOTAL (MG/L AS CACO3)



Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 00940

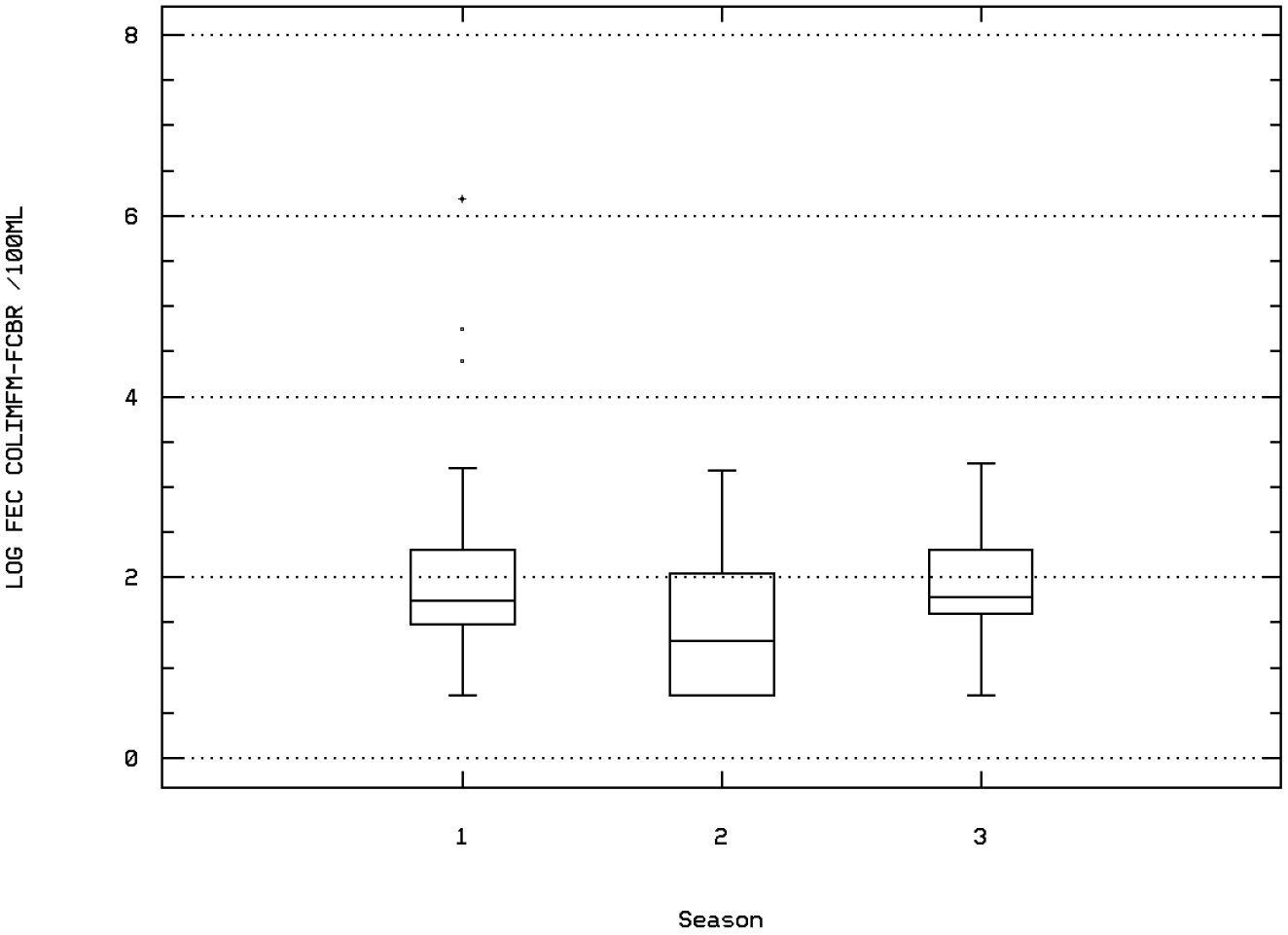
CHLORIDE,TOTAL IN WATER



Shenandoah River near Meyerstown, W. VA

Station: HAFE0100 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



Shenandoah River near Meyerstown, W. VA

Station Inventory for Station: HAFE0101

NPS Station ID: HAFE0101 LAT/LON: 39.435837/ -77.859726 Agency: 112WRD Date Created: 11/18/75
Location: ROCKYMARSH RUN TRIB NR SHEPARDSTOWN FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 392609077513501
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070004 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 02070004 RF1 Mile Point: 0.000 Distance from RF1: 33.00 On/Off RF1:
RF3 Index: 02070004029700.00 RF3 Mile Point: 1.28 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/25/74-08/02/88	2	19.	19.	26.	12.	98.	9.899	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/02/88-08/02/88	1	752.	752.	752.	752.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/25/74-08/02/88	2	0.95	0.95	1.	0.9	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/74-08/02/88	2	557.5	557.5	595.	520.	2812.5	53.033	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/02/88-08/02/88	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/25/74-08/02/88	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/25/74-08/02/88	2	8.047	8.047	8.1	8.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/25/74-08/02/88	2	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/02/88-08/02/88	1	274.	274.	274.	274.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/02/88-08/02/88	1	334.	334.	334.	334.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/02/88-08/02/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/25/74-09/25/74	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/25/74-09/25/74	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/74-09/25/74	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/74-08/02/88	2	105.	105.	110.	100.	50.	7.071	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/74-08/02/88	2	9.05	9.05	9.7	8.4	0.845	0.919	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/25/74-08/02/88	2	9.	9.	12.	6.	18.	4.243	**	**	**	**

** - Less 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: HAFE0101

				Total	Exceed	Prop.	----------8/01-10/31----------			----------11/01-3/20----------			----------3/21-7/31----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0102

NPS Station ID: HAFE0102
LAT/LON: 39.282781/ -77.864170
Agency: 1112A9WQ
Date Created: / /
Location: EVITTS RUN AT RT 340
FIPS State/County: 54021 WEST VIRGINIA/GILMER
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): UP-POT-100 /SHEN 100 /100 /EVIT R 100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 999
Aquifer:
Major Basin: NORTH ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070004033100.00
RF3 Mile Point: 2.88
Distance from RF3: 0.61
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/72-04/17/73	3	14.	13.5	16.5	10.	10.75	3.279	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/24/72-04/17/73	4	10.35	10.275	11.	9.4	0.449	0.67	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	05/24/72-04/17/73	3	1.4	1.367	1.6	1.1	0.063	0.252	**	**	**	**
00400	PH (STANDARD UNITS)	05/24/72-05/24/72	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/24/72-05/24/72	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/72-05/24/72	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/24/72-05/24/72	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/72-04/17/73	4	0.06	0.063	0.095	0.035	0.001	0.025	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/72-04/17/73	4	0.386	0.416	0.693	0.2	0.047	0.217	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/72-04/17/73	4	3.1	3.125	3.6	2.7	0.196	0.443	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/24/72-04/17/73	4	0.03	0.035	0.05	0.03	0.	0.01	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/24/72-02/13/73	3	7.5	5.77	9.8	0.01	26.206	5.119	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	05/24/72-02/13/73	3	48.	48.2	50.3	46.3	4.03	2.007	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/72-05/24/72	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/72-05/24/72	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/24/72-05/24/72	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/24/72-05/24/72	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/24/72-05/24/72	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/24/72-05/24/72	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/24/72-05/24/72	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	02/13/73-04/17/73	2	1265.	1265.	2200.	330.	1748450.	1322.29	**	**	**	**
31505	LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	02/13/73-04/17/73	2	2.93	2.93	3.342	2.519	0.339	0.583	**	**	**	**
31505	GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506	GEOMETRIC MEAN =			852.056								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/13/73-04/17/73	2 ##	170.	170.	330.	10.	51200.	226.274	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/13/73-04/17/73	2 ##	1.759	1.759	2.519	1.	1.153	1.074	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			57.446								
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/24/72-04/17/73	4	0.08	0.098	0.2	0.03	0.005	0.073	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/24/72-05/24/72	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0102

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	1	0.50				1	0	0.00	1	1	1.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	1	0.50				1	0	0.00	1	1	1.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: HAFE0103

NPS Station ID: HAFE0103 LAT/LON: 39.288060/ -77.865559 Agency: 112WRD Date Created: 03/23/85
Location: EVITTS RUN @ LIBERTY ST BRDG @ CHARLES TOWN,WV FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 01636477
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070007 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 02070007 RF1 Mile Point: 0.000 Distance from RF1: 15.70 On/Off RF1:
RF3 Index: 02070004024500.00 RF3 Mile Point: 0.29 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0103

Parameter		Period of Record	Obs		Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/84-07/22/85	3		16.	17.333	24.	12.	37.333	6.11	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/10/84-07/22/85	3		748.	750.	757.	745.	39.	6.245	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/10/84-07/22/85	3		6.	4.1	6.	0.3	10.83	3.291	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/84-07/22/85	3		500.	526.667	620.	460.	6933.333	83.267	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/22/85-07/22/85	2		9.1	9.1	10.	8.2	1.62	1.273	**	**	**	**
00400	PH (STANDARD UNITS)	10/10/84-07/22/85	3		8.3	8.233	8.3	8.1	0.013	0.115	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/10/84-07/22/85	3		8.3	8.223	8.3	8.1	0.014	0.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/84-07/22/85	3		0.005	0.006	0.008	0.005	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/10/84-07/22/85	3		7.8	7.8	7.9	7.7	0.01	0.1	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/10/84-07/22/85	3		7.8	7.792	7.9	7.7	0.01	0.1	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/84-07/22/85	3		0.016	0.016	0.02	0.013	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/84-04/22/85	2		229.	229.	238.	220.	162.	12.728	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/10/84-07/22/85	3	##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/10/84-07/22/85	3		0.1	1.55	4.5	0.05	6.528	2.555	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/84-07/22/85	3		82.	82.	84.	80.	4.	2.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/84-07/22/85	3		8.2	8.433	9.1	8.	0.343	0.586	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/10/84-07/22/85	3		2.8	2.833	2.9	2.8	0.003	0.058	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/84-07/22/85	3		8.	8.333	9.	8.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/84-07/22/85	3		15.	15.333	17.	14.	2.333	1.528	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	07/22/85-07/22/85	1		240.	240.	240.	240.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/10/84-07/22/85	3		190.	210.	250.	190.	1200.	34.641	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/10/84-07/22/85	3		9.	13.	23.	7.	76.	8.718	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/22/85-07/22/85	1		10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/10/84-07/22/85	3		30.	26.667	30.	20.	33.333	5.774	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/10/84-07/22/85	3		13.	14.	18.	11.	13.	3.606	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/10/84-07/22/85	3		1100.	913.667	1130.	511.	121830.333	349.042	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	10/10/84-07/22/85	3		3.041	2.934	3.053	2.708	0.038	0.196	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =				859.602								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/10/84-07/22/85	3		2800.	2247.333	3700.	242.	3218521.333	1794.024	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/10/84-07/22/85	3		3.447	3.133	3.568	2.384	0.425	0.652	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =				1358.496								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/10/84-07/22/85	3		266.	263.333	290.	234.	789.333	28.095	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	1	0	0.00				2	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	3	3	1.00	1	1	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: HAFE0104

NPS Station ID: HAFE0104
LAT/LON: 39.219448/ -77.866392
Agency: 112WRD
Date Created: 05/03/86
Location: BULLSKIN RUN ABOVE KABLETOWN,WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01636460
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007002
RF1 Mile Point: 2.420
Distance from RF1: 11.10
On/Off RF1: OFF
RF3 Index: 02070007016600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-09/08/93	26	13.75	13.038	23.	0.	38.978	6.243	3.4	8.5	18.25	19.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/08/93-09/08/93	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/11/84-09/08/93	3	759.	761.333	766.	759.	16.333	4.041	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-09/08/93	26	8.	8.769	20.	3.	21.065	4.59	3.7	5.	10.25	17.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-09/08/93	26	520.	526.192	640.	480.	1486.962	38.561	487.	500.	540.	593.
00300	OXYGEN, DISSOLVED MG/L	10/11/84-09/08/93	3	9.1	10.067	12.1	9.	3.103	1.762	**	**	**	**
00400	PH (STANDARD UNITS)	10/11/84-09/08/93	26	8.1	8.092	8.6	7.6	0.035	0.187	7.87	8.	8.2	8.23
00400	CONVERTED PH (STANDARD UNITS)	10/11/84-09/08/93	26	8.1	8.052	8.6	7.6	0.037	0.192	7.87	8.	8.2	8.23
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/84-09/08/93	26	0.008	0.009	0.025	0.003	0.	0.004	0.006	0.006	0.01	0.014
00403	PH, LAB, STANDARD UNITS SU	09/08/93-09/08/93	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/08/93-09/08/93	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/08/93-09/08/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	09/08/93-09/08/93	1	285.	285.	285.	285.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	09/08/93-09/08/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/08/93-09/08/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/08/93-09/08/93	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/08/93-09/08/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/08/93-09/08/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/08/93-09/08/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/08/93-09/08/93	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/08/93-09/08/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/08/93-09/08/93	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/08/93-09/08/93	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/08/93-09/08/93	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/08/93-09/08/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/08/93-09/08/93	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/08/93-09/08/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/08/93-09/08/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
04024	PROPACHLOR,DISSOLVED,WATER,TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
04028	BUTYLATE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1	0.044	0.044	0.044	0.044	0.	0.	**	**	**	**
04037	PROMETON, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1	0.037	0.037	0.037	0.037	0.	0.	**	**	**	**
04040	DEETHYL ATRAZINE,DISSOLVED,WATER,TOT REC UG/L	09/08/93-09/08/93	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
04041	CYANAZINE,DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
04095	FONOFOS, DISSOLVED, WATER, TOTAL RECOVERABLE UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34253	A-BHC-ALPHA DISSUG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

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

Parameter Inventory for Station: HAFE0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34653	P,P'-DDE DISSUG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
38933	CHLORPYRIFOS,DISSOLVED UG/L	09/08/93-09/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	09/08/93-09/08/93	1	234.	234.	234.	234.	0.	0.	**	**	**	**
39341	GAMMA-BHC(LINDANE),DISSOLVED,UG/L	09/08/93-09/08/93	1 ##	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39415	METOLACHLOR, WATER, DISSOLVED UG/L	09/08/93-09/08/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39532	MALATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
39572	DIAZINON IN FILT. FRAC. OF WATER SAMPLE (UG/L)	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39632	ATRAZINE DISSOLVED IN WATER PPB	09/08/93-09/08/93	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
46342	ALACHLOR (LASSO), WATER, DISSOLVED UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/08/93-09/08/93	1	275.	275.	275.	275.	0.	0.	**	**	**	**
82630	METRIBUZIN (SENCOR), WATER, DISSOLVED UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82660	DIETHYLANILINE, 2, 6-,0.7UM FILT,TOT RECV,WTR UG/L	09/08/93-09/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82661	TRIFLURALINE, 0.7UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82662	DIMETHOATE, 0.7 UM FILT,TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82663	ETHALFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82664	PHORATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82665	TERBACIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
82666	LINURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82667	METHYL PARATHION,0.7 UM FILT,TOT RECV,WATER UG/L	09/08/93-09/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82668	EPTC, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82669	PEBULATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82670	TEBUTHIURON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82671	MOLINATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82672	ETHOPROP, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82673	BENFLURALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82674	CARBOFURAN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82675	TERBUFOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82676	PRONAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82677	DISULFOTON, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82678	TRIALLATE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82679	PROPANIL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82680	CARBARYL, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
82681	THIOBENCARB, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
82682	DCPA, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
82683	PENDIMETHALIN, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
82684	NAPROPAMIDE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82685	PROPARGITE, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82686	METHYL AZINPHOS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
82687	PERMETHRIN, CIS, 0.7 UM FILT, TOT RECV, WATER UG/L	09/08/93-09/08/93	1 ##	0.01	0.01	0.01	0.01	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: HAFE0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	2	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	26	0	0.00	9	0	0.00	8	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	26	0	0.00	9	0	0.00	8	0	0.00	9	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	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

EPA Water Quality Criteria Analysis for Station: HAFE0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	1	0	0.00	1	0	0.00									
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	1	0	0.00	1	0	0.00									
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	1	0	0.00	1	0	0.00									
46342	ALACHLOR (LASSO), WATER, DISSOLVED	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

Seasonal Analysis for Season #1: 8/01 to 10/31 - Station HAFE0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-09/08/93	9	16.	15.389	19.	12.	7.236	2.69	12.	12.75	18.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-09/08/93	9	4.	5.444	9.	3.	5.278	2.297	3.	3.5	7.5	9.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-09/08/93	9	506.	505.111	540.	480.	400.111	20.003	480.	485.	520.	540.
00400	PH (STANDARD UNITS)	10/11/84-09/08/93	9	8.1	8.078	8.6	7.6	0.077	0.277	7.6	7.9	8.2	8.6
00400	CONVERTED PH (STANDARD UNITS)	10/11/84-09/08/93	9	8.1	8.002	8.6	7.6	0.083	0.289	7.6	7.9	8.2	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/84-09/08/93	9	0.008	0.01	0.025	0.003	0.	0.007	0.003	0.006	0.013	0.025

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

Seasonal Analysis for Season #2: 11/01 to 3/20 - Station HAFE0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-09/08/93	8	4.5	5.25	11.	0.	13.071	3.615	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-09/08/93	8	10.5	11.875	20.	7.	19.839	4.454	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-09/08/93	8	565.	564.375	640.	490.	2253.125	47.467	**	**	**	**
00400	PH (STANDARD UNITS)	10/11/84-09/08/93	8	8.15	8.125	8.3	7.8	0.022	0.149	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/11/84-09/08/93	8	8.147	8.1	8.3	7.8	0.023	0.151	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/84-09/08/93	8	0.007	0.008	0.016	0.005	0.	0.003	**	**	**	**

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

Seasonal Analysis for Season #3: 3/21 to 7/31 - Station HAFE0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-09/08/93	9	18.	17.611	23.	12.	12.736	3.569	12.	14.25	20.	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-09/08/93	9	8.	9.333	19.	5.	20.75	4.555	5.	6.	12.	19.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-09/08/93	9	510.	513.333	535.	500.	131.25	11.456	500.	502.5	520.	535.
00400	PH (STANDARD UNITS)	10/11/84-09/08/93	9	8.1	8.078	8.2	7.9	0.012	0.109	7.9	8.	8.2	8.2
00400	CONVERTED PH (STANDARD UNITS)	10/11/84-09/08/93	9	8.1	8.065	8.2	7.9	0.012	0.11	7.9	8.	8.2	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/84-09/08/93	9	0.008	0.009	0.013	0.006	0.	0.002	0.006	0.006	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

Station Inventory for Station: HAFE0105

NPS Station ID: HAFE0105
LAT/LON: 39.291948/ -77.871670
Agency: 11COEHUN
Date Created: 11/06/93
Location: Evitts Run
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1AMEW0005
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 5
Aquifer:
Major Basin: MID ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
Located on Evitts Run 0.6 miles west of Charles Town WV near the B&O &N &W RR crossing. - Charles Town WV-VA-MD quad - Jefferson County

Parameter Inventory for Station: HAFE0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	2	15.9	15.9	17.9	13.9	8.	2.828	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	3	11.	11.	16.	6.	25.	5.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	2	530.5	530.5	545.	516.	420.5	20.506	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	2	8.15	8.15	9.6	6.7	4.205	2.051	**	**	**	**
00400	PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.55	7.55	7.6	7.5	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.547	7.547	7.6	7.5	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/93-07/07/94	2	0.028	0.028	0.032	0.025	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	3	248.	247.333	256.	238.	81.333	9.018	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	2	301.	301.	312.	290.	242.	15.556	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	3	369.	368.	372.	363.	21.	4.583	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	3	315.	327.333	352.	315.	456.333	21.362	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	2	9.	9.	16.	2.	98.	9.899	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	3 ##	0.01	0.033	0.08	0.01	0.002	0.04	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	3	0.14	0.137	0.26	0.01	0.016	0.125	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	3	4.55	4.533	5.89	3.16	1.863	1.365	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	2	3.9	3.9	4.8	3.	1.62	1.273	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	3 ##	0.01	0.027	0.06	0.01	0.001	0.029	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/08/93-10/08/93	1	179.	179.	179.	179.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	3	7.3	7.133	9.5	4.6	6.023	2.454	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	1	54.5	54.5	54.5	54.5	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	2	293.5	293.5	294.	293.	0.5	0.707	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	3	101.	99.167	102.	94.5	16.583	4.072	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	3	101.	101.267	103.	99.8	2.613	1.617	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/08/93-10/08/93	1	10500.	10500.	10500.	10500.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/08/93-10/08/93	1	710.	710.	710.	710.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	3	9.3	9.467	10.2	8.9	0.443	0.666	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	3	9.4	9.567	10.2	9.1	0.323	0.569	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	3	3.75	4.003	4.66	3.6	0.329	0.574	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	3	3.57	3.737	4.22	3.42	0.181	0.425	**	**	**	**

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Parameter Inventory for Station: HAFE0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/08/93-10/08/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	3	2.55	2.56	2.93	2.2	0.133	0.365	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	3	2.7	2.663	3.08	2.21	0.19	0.436	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/08/93-10/08/93	1	172.	172.	172.	172.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	3	11.	10.667	12.	9.	2.333	1.528	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	3	12.	12.	12.	12.	0.	0.	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	3	14.5	14.333	14.9	13.6	0.443	0.666	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/08/93-10/08/93	1	28.2	28.2	28.2	28.2	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/08/93-10/08/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/08/93-10/08/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/08/93-10/08/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/08/93-10/08/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	3	168.	269.667	479.	162.	32874.333	181.313	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	3	3.	13.167	35.	1.5	358.083	18.923	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/08/93-10/08/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/08/93-10/08/93	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	3	18.	35.333	77.	11.	1314.333	36.254	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	3	14.	30.	68.	8.	1092.	33.045	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/08/93-10/08/93	1 ##	0.125	0.125	0.125	0.125	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	3	10.	10.667	12.	10.	1.333	1.155	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/08/93-10/08/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/08/93-10/08/93	1	154.	154.	154.	154.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/08/93-10/08/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	3	5.	7.333	16.	1.	60.333	7.767	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/08/93-10/08/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/08/93-10/08/93	1 ##	0.375	0.375	0.375	0.375	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/08/93-10/08/93	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	3	40.	54.333	113.	10.	2806.333	52.975	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	3 ##	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/08/93-10/08/93	1	798.	798.	798.	798.	0.	0.	**	**	**	**
01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/08/93-10/08/93	1	147.	147.	147.	147.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/08/93-10/08/93	1	23.8	23.8	23.8	23.8	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/08/93-10/08/93	1	3950.	3950.	3950.	3950.	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	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: HAFE0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/08/93-10/08/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1	3340.	3340.	3340.	3340.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	2.05	2.05	2.05	2.05	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34394	HEXACHLOROBUTADIENE BOTUG/KG	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.95	1.95	1.95	1.95	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	10/08/93-10/08/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	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: HAFE0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	700.	700.	700.	700.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/08/93-10/08/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/08/93-10/08/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/08/93-10/08/93	1	6490.	6490.	6490.	6490.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1	3710.	3710.	3710.	3710.	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/08/93-10/08/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	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: HAFE0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	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: HAFE0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/08/93-07/07/94	2 ##	8.965	8.965	17.43	0.5	143.312	11.971	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/08/93-10/08/93	1	97.	97.	97.	97.	0.	0.	**	**	**	**
80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	10/08/93-10/08/93	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	10/08/93-10/08/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/08/93-10/08/93	1	47.8	47.8	47.8	47.8	0.	0.	**	**	**	**
80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/08/93-10/08/93	1	65.2	65.2	65.2	65.2	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	1 ##	0.75	0.75	0.75	0.75	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: HAFE0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00	1	0	0.00									
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00	1	0	0.00									
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00	1	0	0.00									
		Drinking Water	700.	1	0	0.00	1	0	0.00									
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00	1	0	0.00									
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00	1	0	0.00									
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00	1	0	0.00									
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00	1	0	0.00									
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	1	0	0.00	1	0	0.00									
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00	1	0	0.00									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00	1	0	0.00									
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00	1	0	0.00									
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00	1	0	0.00									
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00	1	0	0.00									
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00	1	0	0.00									
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00	1	0	0.00									
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00	1	0	0.00									
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00	1	0	0.00									
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00	1	0	0.00									
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: HAFE0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	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: HAFE0106

NPS Station ID: HAFE0106
LAT/LON: 39.184226/ -77.875559
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Long Marsh Run south of Meyerstown, WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550923 /S-017-02 /X-MIN-88S001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-7
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007003
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 02070004041101.15
RF3 Mile Point: 3.15
Distance from RF3: 0.49
On/Off RF3:
Description:
Long Marsh Run at County Route 25 Highway Bridge south of Community of Meyerstown, Jefferson County, West Virginia.
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department
of Natural Resources, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988.
> Berryville, VA-WV Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	10	13.	13.	21.	4.	22.889	4.784	4.5	9.75	16.5	20.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	425.	433.333	500.	380.	1387.879	37.254	386.	400.	467.5	494.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	11	4.	7.273	20.	2.	39.418	6.278	2.	2.	12.	19.2
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.	8.058	8.2	8.	0.008	0.09	8.	8.	8.175	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.	8.05	8.2	8.	0.008	0.09	8.	8.	8.175	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.01	0.009	0.01	0.006	0.	0.002	0.006	0.007	0.01	0.01
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	11	8.	7.955	8.	7.5	0.023	0.151	7.6	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/07/88	11	8.	7.922	8.	7.5	0.024	0.155	7.6	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	11	0.01	0.012	0.032	0.01	0.	0.007	0.01	0.01	0.01	0.027
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	226.5	224.333	240.	200.	120.606	10.982	203.	219.25	232.25	238.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	22.	24.375	52.	0.5	287.142	16.945	1.55	9.25	42.	50.2
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	11	0.24	0.313	0.62	0.1	0.028	0.166	0.11	0.2	0.43	0.604
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	11	4.3	4.136	5.1	2.6	0.745	0.863	2.64	3.6	4.9	5.08
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	11	0.048	0.112	0.38	0.012	0.019	0.138	0.012	0.023	0.27	0.368
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	270.	276.	318.	246.	498.182	22.32	249.	259.5	287.	317.4
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	10.5	10.583	13.	9.	1.72	1.311	9.	9.25	11.75	12.7
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	20.	20.	26.	16.	6.4	2.53	16.4	18.	20.	25.2
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	70.	70.	80.	60.	200.	14.142	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	267.	331.833	980.	120.	51909.424	227.836	133.2	201.5	368.5	830.
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12	24.	27.5	54.	10.	138.273	11.759	13.	20.5	37.	49.8
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	2	7.5	7.5	11.	4.	24.5	4.95	**	**	**	**

** - Less 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: HAFE0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	203.	229.667	700.	60.	29178.788	170.818	60.	147.	237.5	604.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: HAFE0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	3	0	0.00	4	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	3	0	0.00	4	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0107

NPS Station ID: HAFE0107
LAT/LON: 39.292781/ -77.878337
Agency: 11COEHUN
Date Created: 01/08/94
Location: Evitts Run
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1AMEW0006
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 5
Aquifer:
Major Basin: MID ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
Located on a spring (Charles Town Old Spring source) 1 mile west of Char les Town which flows into Evitts Run / Altona Marsh - Middleway WV quad - Jefferson county

Parameter Inventory for Station: HAFE0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	11.9	11.9	11.9	11.9	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/94-07/07/94	1	536.	536.	536.	536.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/07/94-07/07/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/07/94-07/07/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/07/94-07/07/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/94-07/07/94	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/93-07/07/94	2	242.5	242.5	256.	229.	364.5	19.092	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	12/16/93-12/16/93	1	279.	279.	279.	279.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	12/16/93-07/07/94	2	369.	369.	371.	367.	8.	2.828	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/16/93-07/07/94	2	302.	302.	307.	297.	50.	7.071	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/07/94-07/07/94	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/16/93-07/07/94	2	9.45	9.45	10.2	8.7	1.125	1.061	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	2	9.35	9.35	10.4	8.3	2.205	1.485	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/16/93-07/07/94	2 ##	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/16/93-12/16/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	12/16/93-07/07/94	2	4.55	4.55	4.8	4.3	0.125	0.354	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	1	39.6	39.6	39.6	39.6	0.	0.	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/16/93-12/16/93	1	292.	292.	292.	292.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/16/93-07/07/94	2	82.4	82.4	85.9	78.9	24.5	4.95	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/16/93-07/07/94	2	84.25	84.25	85.9	82.6	5.445	2.333	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/16/93-07/07/94	2	18.	18.	18.8	17.2	1.28	1.131	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/16/93-07/07/94	2	18.15	18.15	18.8	17.5	0.845	0.919	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/16/93-07/07/94	2	3.935	3.935	3.94	3.93	0.	0.007	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/16/93-07/07/94	2	3.73	3.73	3.86	3.6	0.034	0.184	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/16/93-07/07/94	2	2.39	2.39	2.41	2.37	0.001	0.028	**	**	**	**

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

Parameter Inventory for Station: HAFE0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00937	POTASSIUM, TOTAL MG/L AS K)	12/16/93-07/07/94	2	2.47	2.47	2.5	2.44	0.002	0.042	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/16/93-07/07/94	2	13.5	13.5	14.	13.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/16/93-07/07/94	2	13.	13.	13.	13.	0.	0.	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	12/16/93-07/07/94	2	14.7	14.7	14.8	14.6	0.02	0.141	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/16/93-07/07/94	2 ##	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/16/93-07/07/94	2 ##	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	12/16/93-07/07/94	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/16/93-07/07/94	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/16/93-07/07/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/16/93-07/07/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	12/16/93-07/07/94	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/16/93-07/07/94	2 ##	2.25	2.25	3.	1.5	1.125	1.061	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/16/93-07/07/94	2 ##	288.75	288.75	576.	1.5	165025.125	406.233	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/16/93-07/07/94	2 ##	2.	2.	2.5	1.5	0.5	0.707	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	12/16/93-07/07/94	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/16/93-07/07/94	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/16/93-07/07/94	2 ##	7.25	7.25	14.	0.5	91.125	9.546	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/16/93-07/07/94	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/16/93-07/07/94	2 ##	7.25	7.25	10.	4.5	15.125	3.889	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/16/93-07/07/94	2 ##	9.5	9.5	10.	9.	0.5	0.707	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	12/16/93-07/07/94	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/16/93-07/07/94	2 ##	7.	7.	13.	1.	72.	8.485	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/16/93-07/07/94	2 ##	71.5	71.5	133.	10.	7564.5	86.974	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12/16/93-07/07/94	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**

** - Less 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: HAFE0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	1	0.50				1	1	1.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	1	0.50				1	1	1.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5.	2	0	0.00				1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5.	2	0	0.00				1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	1300.	2	0	0.00				1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	1300.	2	0	0.00				1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			

& - 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: HAFE0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5000.	2	0	0.00				1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5000.	2	0	0.00				1	0	0.00	1	0	0.00			

& - 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: HAFE0108

NPS Station ID: HAFE0108 LAT/LON: 39.185837/ -77.879726 Agency: 112WRD Date Created: 05/03/86
Location: NORTH FORK LONG MARSH RUN NEAR MEYERSTOWN,WV FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 01636451
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070007 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 02070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 02070007000114.27 RF3 Mile Point: 15.79 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/11/84-06/21/89	27	14.5	14.593	27.	0.	46.097	6.789	5.	10.	20.	23.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/11/84-06/21/89	5	752.	754.6	761.	749.	30.3	5.505	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/11/84-06/21/89	27	2.	2.667	6.	1.	1.462	1.209	1.	2.	3.	4.2
00065	STAGE, STREAM (FEET)	09/29/88-03/28/89	2	54.62	54.62	108.	1.24	5698.849	75.491	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/11/84-06/21/89	27	515.	527.037	670.	440.	2885.114	53.713	468.	500.	565.	604.
00300	OXYGEN, DISSOLVED MG/L	10/11/84-06/21/89	5	9.	9.32	12.3	8.	3.057	1.748	**	**	**	**
00400	PH (STANDARD UNITS)	10/11/84-06/21/89	27	8.2	8.169	8.9	7.3	0.082	0.286	7.77	8.1	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	10/11/84-06/21/89	27	8.2	8.057	8.9	7.3	0.095	0.308	7.77	8.1	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/11/84-06/21/89	27	0.006	0.009	0.05	0.001	0.	0.009	0.003	0.005	0.008	0.017
00403	PH, LAB, STANDARD UNITS SU	09/29/88-06/21/89	3	7.9	7.9	8.	7.8	0.01	0.1	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/29/88-06/21/89	3	7.9	7.892	8.	7.8	0.01	0.1	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/29/88-06/21/89	3	0.013	0.013	0.016	0.01	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/29/88-09/29/88	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	03/28/89-06/21/89	2	253.	253.	259.	247.	72.	8.485	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/29/88-09/29/88	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/29/88-09/29/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	03/28/89-06/21/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	03/28/89-06/21/89	2	308.5	308.5	316.	301.	112.5	10.607	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	3	0.09	0.093	0.12	0.07	0.001	0.025	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/29/88-06/21/89	3	0.04	0.04	0.05	0.03	0.	0.01	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/29/88-06/21/89	3	6.4	6.2	6.8	5.4	0.52	0.721	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/29/88-06/21/89	3	0.01	0.017	0.03	0.01	0.	0.012	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/88-06/21/89	3	92.	91.333	93.	89.	4.333	2.082	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/88-06/21/89	3	16.	16.	18.	14.	4.	2.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/29/88-06/21/89	3	4.3	4.233	4.7	3.7	0.253	0.503	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/29/88-06/21/89	3	3.4	3.133	3.5	2.5	0.303	0.551	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/29/88-06/21/89	3	11.	11.	12.	10.	1.	1.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/29/88-06/21/89	3	20.	21.	25.	18.	13.	3.606	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/88-06/21/89	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/88-06/21/89	3	11.	11.	12.	10.	1.	1.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/29/88-06/21/89	3	17.	18.	21.	16.	7.	2.646	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/29/88-06/21/89	3	33.	26.	38.	7.	277.	16.643	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/29/88-06/21/89	3	1100.	829.	1380.	7.	526363.	725.509	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/29/88-06/21/89	3	3.041	2.342	3.14	0.845	1.683	1.297	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			219.848								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/29/88-06/21/89	3	600.	700.	1320.	180.	332400.	576.541	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/29/88-06/21/89	3	2.778	2.718	3.121	2.255	0.19	0.436	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			522.395								

** - Less 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: HAFE0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39054	SIMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39055	SIMAZINE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
39056	PROMETONE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39057	PROMETRYNE IN WHOLE WATER (UG/L)	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	03/28/89-06/21/89	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	03/28/89-06/21/89	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.002	0.001	0.	0.001	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2	0.004	0.004	0.006	0.001	0.	0.004	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.002	0.002	0.003	0.001	0.	0.002	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	06/21/89-06/21/89	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	03/28/89-06/21/89	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/29/88-06/21/89	3	324.	326.	337.	317.	103.	10.149	**	**	**	**
77825	ALACHLOR WHOLE WATER,UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/21/89-06/21/89	1	0.2	0.2	0.2	0.2	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: HAFE0108

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00400	PH	Other-Hi Lim.	9.	27	0	0.00	8	0	0.00	8	0	0.00	11	0	0.00			
		Other-Lo Lim.	6.5	27	0	0.00	8	0	0.00	8	0	0.00	11	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	3	0	0.00	1	0	0.00				2	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	3	2	0.67	1	1	1.00				2	1	0.50			
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	1	0	0.00							1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	2	0	0.00							2	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	2	0	0.00							2	0	0.00			
		Drinking Water	0.2	2	0	0.00							2	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0108

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	2	0	0.00							2	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	2	0	0.00							2	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	2	0	0.00							2	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	2	0	0.00							2	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	2	0	0.00							2	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	2	0	0.00							2	0	0.00			
		Drinking Water	2.	2	0	0.00							2	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00							2	0	0.00			
		Drinking Water	3.	2	0	0.00							2	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00							2	0	0.00			
		Drinking Water	0.4	2	0	0.00							2	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	2	0	0.00							2	0	0.00			
		Drinking Water	0.2	2	0	0.00							2	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	2	0	0.00							2	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	2	0	0.00							2	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	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: HAFE0109

NPS Station ID: HAFE0109
LAT/LON: 39.292504/ -77.880559
Agency: 112WRD
Date Created: / /
Location: 2103028/WYSONG SPRING
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 391733077525001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 15.30
On/Off RF1:
RF3 Index: 02070007018200.00
RF3 Mile Point: 1.38
Distance from RF3: 0.30
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/45-05/03/57	2	8.5	8.5	12.	5.	24.5	4.95	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/57-05/03/57	1	415.	415.	415.	415.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/26/45-05/03/57	2	7.65	7.65	7.7	7.6	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/26/45-05/03/57	2	7.647	7.647	7.7	7.6	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/26/45-05/03/57	2	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	01/26/45-05/03/57	2	245.	245.	252.	238.	98.	9.899	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/03/57-05/03/57	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/03/57-05/03/57	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/03/57-05/03/57	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/03/57-05/03/57	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/26/45-05/03/57	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/26/45-05/03/57	2	2.55	2.55	5.	0.1	12.005	3.465	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/03/57-05/03/57	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/03/57-05/03/57	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/26/45-05/03/57	2	0.135	0.135	0.2	0.07	0.008	0.092	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/26/45-05/03/57	2	19.	19.	23.	15.	32.	5.657	**	**	**	**

** - Less 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: HAFE0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00				1	0	0.00	1	0	0.00			

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

Station Inventory for Station: HAFE0110

NPS Station ID: HAFE0110
LAT/LON: 39.291670/ -77.880559
Agency: 112WRD
Date Created: 10/31/81
Location: CHARLES TOWN P S SPRING
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 391730077525001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070007017603.16
RF3 Mile Point: 5.45
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/19/77-04/19/77	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/19/77-04/19/77	1	425.	425.	425.	425.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/19/77-04/19/77	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/19/77-04/19/77	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/19/77-04/19/77	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	04/19/77-04/19/77	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/19/77-04/19/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/19/77-04/19/77	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/19/77-04/19/77	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/19/77-04/19/77	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	04/19/77-04/19/77	1	28.	28.	28.	28.	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: HAFE0110

Parameter				Total	Exceed	Prop.	8/01-10/31			11/01-3/20			3/21-7/31			n/a		
		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			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	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: HAFE0111

NPS Station ID: HAFE0111
LAT/LON: 39.293337/ -77.881115
Agency: 11COEHUN
Date Created: 11/06/93
Location: Evitts Run
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1AMEW0004
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 5
Aquifer:
Major Basin: MID ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
Located on a spring (north of B & O Railroad) 1.1 miles west of Charles Town WV, which flows through a concrete pipe into Altona Marsh - Middlew
ay WV quad - Jefferson County

Parameter Inventory for Station: HAFE0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	2	17.7	17.7	24.6	10.8	95.22	9.758	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	3	0.3	0.277	0.5	0.03	0.056	0.236	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	2	521.	521.	523.	519.	8.	2.828	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	2	6.45	6.45	8.	4.9	4.805	2.192	**	**	**	**
00400	PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.45	7.45	7.5	7.4	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.447	7.447	7.5	7.4	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/93-07/07/94	2	0.036	0.036	0.04	0.032	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	3	251.	246.	252.	235.	91.	9.539	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	2	296.5	296.5	306.	287.	180.5	13.435	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	3	340.	345.333	356.	340.	85.333	9.238	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	3	333.	316.667	339.	278.	1130.333	33.62	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	3 ##	0.01	0.04	0.1	0.01	0.003	0.052	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	3	0.19	0.187	0.36	0.01	0.031	0.175	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	3	6.08	4.202	6.5	0.025	13.128	3.623	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	2 ##	3.113	3.113	6.2	0.025	19.065	4.366	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	3 ##	0.01	0.04	0.1	0.01	0.003	0.052	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/08/93-10/08/93	1	315.	315.	315.	315.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	3	7.9	6.7	8.4	3.8	6.37	2.524	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	1	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	1	52.1	52.1	52.1	52.1	0.	0.	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	1	60.5	60.5	60.5	60.5	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	2	278.	278.	286.	270.	128.	11.314	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	3	81.1	79.633	81.3	76.5	7.373	2.715	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	3	81.7	80.4	82.2	77.3	7.27	2.696	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/08/93-10/08/93	1	8310.	8310.	8310.	8310.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/08/93-10/08/93	1	895.	895.	895.	895.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	3	19.2	19.433	20.2	18.9	0.463	0.681	**	**	**	**

** - Less 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: HAFE0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	3	19.3	19.6	20.5	19.	0.63	0.794	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	3	3.22	3.137	3.22	2.97	0.021	0.144	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	3	2.94	3.	3.18	2.88	0.025	0.159	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/08/93-10/08/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	3	3.75	4.68	7.55	2.74	6.433	2.536	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	3	3.79	4.74	7.61	2.82	6.413	2.532	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/08/93-10/08/93	1	332.	332.	332.	332.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	3	10.	11.	14.	9.	7.	2.646	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	3	9.	9.667	11.	9.	1.333	1.155	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	3	16.3	21.733	35.2	13.7	137.703	11.735	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/08/93-10/08/93	1	35.5	35.5	35.5	35.5	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/08/93-10/08/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/08/93-10/08/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/08/93-10/08/93	1	5.15	5.15	5.15	5.15	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	2.	3.	1.5	0.75	0.866	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/08/93-10/08/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	3	52.	143.667	368.	11.	38164.333	195.357	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	3 ##	1.5	23.	66.	1.5	1386.75	37.239	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/08/93-10/08/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/08/93-10/08/93	1	349.	349.	349.	349.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	3	14.	103.5	296.	0.5	27837.75	166.846	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	3	12.	72.5	205.	0.5	13200.25	114.892	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/08/93-10/08/93	1 ##	0.125	0.125	0.125	0.125	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/08/93-10/08/93	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/08/93-10/08/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/08/93-10/08/93	1	9.36	9.36	9.36	9.36	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/08/93-10/08/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	3	3.	12.	32.	1.	301.	17.349	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/08/93-10/08/93	1	21.8	21.8	21.8	21.8	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/08/93-10/08/93	1 ##	0.375	0.375	0.375	0.375	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/08/93-10/08/93	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	3	28.	24.	34.	10.	156.	12.49	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	3 ##	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/08/93-10/08/93	1	2270.	2270.	2270.	2270.	0.	0.	**	**	**	**
01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/08/93-10/08/93	1	137.	137.	137.	137.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/08/93-10/08/93	1	49.4	49.4	49.4	49.4	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/08/93-10/08/93	1	9480.	9480.	9480.	9480.	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.065	0.065	0.065	0.065	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: HAFE0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/08/93-10/08/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1	3170.	3170.	3170.	3170.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	2.05	2.05	2.05	2.05	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34394	HEXACHLOROBUTADIENE BOTUG/KG	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.95	1.95	1.95	1.95	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	10/08/93-10/08/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**

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Parameter Inventory for Station: HAFE0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	700.	700.	700.	700.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/08/93-10/08/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/08/93-10/08/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/08/93-10/08/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/08/93-10/08/93	1	6960.	6960.	6960.	6960.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1	2830.	2830.	2830.	2830.	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/08/93-10/08/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	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: HAFE0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/08/93-10/08/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/08/93-10/08/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/08/93-10/08/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/08/93-10/08/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/08/93-10/08/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	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: HAFE0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/08/93-07/07/94	2 ##	9.4	9.4	18.3	0.5	158.42	12.587	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/08/93-10/08/93	1	91.	91.	91.	91.	0.	0.	**	**	**	**
80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	10/08/93-10/08/93	1	95.4	95.4	95.4	95.4	0.	0.	**	**	**	**
80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	10/08/93-10/08/93	1	98.4	98.4	98.4	98.4	0.	0.	**	**	**	**
80216	BED MATERIAL SIEVE DIAMETER, % FINER THAN 19.1MM	10/08/93-10/08/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/08/93-10/08/93	1	69.3	69.3	69.3	69.3	0.	0.	**	**	**	**
80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/08/93-10/08/93	1	75.4	75.4	75.4	75.4	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	1 ##	0.75	0.75	0.75	0.75	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: HAFE0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00	1	0	0.00									
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00	1	0	0.00									
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00	1	0	0.00									
		Drinking Water	700.	1	0	0.00	1	0	0.00									
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00	1	0	0.00									
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00	1	0	0.00									
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00	1	0	0.00									
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00	1	0	0.00									
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	1	0	0.00	1	0	0.00									
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00	1	0	0.00									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00	1	0	0.00									
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00	1	0	0.00									
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00	1	0	0.00									
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00	1	0	0.00									
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00	1	0	0.00									
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00	1	0	0.00									
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00	1	0	0.00									
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00	1	0	0.00									
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00	1	0	0.00									
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	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

EPA Water Quality Criteria Analysis for Station: HAFE0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	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: HAFE0112

NPS Station ID: HAFE0112
LAT/LON: 39.291948/ -77.885004
Agency: 11COEHUN
Date Created: 01/08/94
Location: Evitts Run
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1AMEW0007
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 5
Aquifer:
Major Basin: MID ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
Located on a spring (Altona Farm Spring House) 1.3 miles west of Charles Town which flows into Evitts Run / Altona Marsh - Middleway WV Quad -J
efferson county

Parameter Inventory for Station: HAFE0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	12.4	12.4	12.4	12.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/94-07/07/94	1	466.	466.	466.	466.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/07/94-07/07/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/07/94-07/07/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/07/94-07/07/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/94-07/07/94	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/17/93-07/07/94	2	221.5	221.5	223.	220.	4.5	2.121	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	12/17/93-12/17/93	1	272.	272.	272.	272.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	12/17/93-07/07/94	2	300.	300.	313.	287.	338.	18.385	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/17/93-07/07/94	2	277.5	277.5	280.	275.	12.5	3.536	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/07/94-07/07/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/17/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/17/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/17/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/17/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/17/93-07/07/94	2	5.395	5.395	6.15	4.64	1.14	1.068	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/17/93-07/07/94	2	5.35	5.35	6.2	4.5	1.445	1.202	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/17/93-07/07/94	2 ##	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/17/93-12/17/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	12/17/93-07/07/94	2	3.6	3.6	5.5	1.7	7.22	2.687	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	1	40.1	40.1	40.1	40.1	0.	0.	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	1	45.7	45.7	45.7	45.7	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/17/93-12/17/93	1	258.	258.	258.	258.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/17/93-07/07/94	2	76.8	76.8	80.5	73.1	27.38	5.233	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/17/93-07/07/94	2	77.95	77.95	81.1	74.8	19.845	4.455	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/17/93-07/07/94	2	13.45	13.45	13.8	13.1	0.245	0.495	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/17/93-07/07/94	2	13.6	13.6	13.8	13.4	0.08	0.283	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/17/93-07/07/94	2	4.54	4.54	5.1	3.98	0.627	0.792	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/17/93-07/07/94	2	4.395	4.395	4.83	3.96	0.378	0.615	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/17/93-07/07/94	2	4.11	4.11	4.68	3.54	0.65	0.806	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/17/93-07/07/94	2	4.235	4.235	4.74	3.73	0.51	0.714	**	**	**	**

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

Parameter Inventory for Station: HAFE0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	12/17/93-07/07/94	2	8.	8.	9.	7.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/17/93-07/07/94	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	12/17/93-07/07/94	2	14.35	14.35	14.8	13.9	0.405	0.636	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/17/93-07/07/94	2 ##	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/17/93-07/07/94	2 ##	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	12/17/93-07/07/94	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/17/93-07/07/94	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/17/93-07/07/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/17/93-07/07/94	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	12/17/93-07/07/94	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/17/93-07/07/94	2 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/17/93-07/07/94	2	80.	80.	92.	68.	288.	16.971	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/17/93-07/07/94	2 ##	2.	2.	2.5	1.5	0.5	0.707	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	12/17/93-07/07/94	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/17/93-07/07/94	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/17/93-07/07/94	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/17/93-07/07/94	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	12/17/93-07/07/94	2 ##	7.25	7.25	10.	4.5	15.125	3.889	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/17/93-07/07/94	2 ##	7.25	7.25	10.	4.5	15.125	3.889	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	12/17/93-07/07/94	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/17/93-07/07/94	2 ##	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/17/93-07/07/94	2 ##	25.5	25.5	41.	10.	480.5	21.92	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12/17/93-07/07/94	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	12/17/93-12/17/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	12/17/93-12/17/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	12/17/93-12/17/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	12/17/93-12/17/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	12/17/93-12/17/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	12/17/93-12/17/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	12/17/93-12/17/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	12/17/93-12/17/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	12/17/93-12/17/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	12/17/93-12/17/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	12/17/93-12/17/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	12/17/93-12/17/93	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	12/17/93-12/17/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	12/17/93-12/17/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	12/17/93-12/17/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	12/17/93-12/17/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	12/17/93-12/17/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	12/17/93-12/17/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	12/17/93-12/17/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	12/17/93-12/17/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	12/17/93-12/17/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	12/17/93-12/17/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	12/17/93-12/17/93	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	12/17/93-12/17/93	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

Parameter Inventory for Station: HAFE0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34626	2,6-DINITROTOLUENE TOTWUG/L	12/17/93-12/17/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	12/17/93-12/17/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	12/17/93-12/17/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	12/17/93-12/17/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	12/17/93-12/17/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	12/17/93-12/17/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	12/17/93-12/17/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	12/17/93-12/17/93	1 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	12/17/93-12/17/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	12/17/93-12/17/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	1 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	12/17/93-12/17/93	1 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	12/17/93-12/17/93	1 ##	0.55	0.55	0.55	0.55	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: HAFE0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5.	2	0	0.00				1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5.	2	0	0.00				1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	1300.	2	0	0.00				1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	1300.	2	0	0.00				1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			

& - 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: HAFE0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5000.	2	0	0.00				1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5000.	2	0	0.00				1	0	0.00	1	0	0.00			
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00				1	0	0.00						
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00				1	0	0.00						
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1	0	0.00				1	0	0.00						
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00				1	0	0.00						
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00				1	0	0.00						
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00				1	0	0.00						
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00				1	0	0.00						
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	1	0	0.00				1	0	0.00						
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00				1	0	0.00						
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00				1	0	0.00						
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00				1	0	0.00						
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00				1	0	0.00						
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00				1	0	0.00						
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00				1	0	0.00						
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00				1	0	0.00						
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00				1	0	0.00						
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00				1	0	0.00						
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00				1	0	0.00						
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00				1	0	0.00						
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00				1	0	0.00						
		Drinking Water	3.	1	0	0.00				1	0	0.00						
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00				1	0	0.00						
		Drinking Water	0.2	1	0	0.00				1	0	0.00						
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00				1	0	0.00						
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00				1	0	0.00						
		Drinking Water	1.	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: HAFE0113

NPS Station ID: HAFE0113
LAT/LON: 39.293892/ -77.887782
Agency: 112WRD
Date Created: 05/03/86
Location: EVITTS RUN NEAR RANSON,WV
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 01636475
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 02070007000200.00
RF3 Mile Point: 1.24
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/84-12/16/86	25	15.5	14.86	22.	4.	25.115	5.011	7.6	10.5	19.5	21.2
00025	BAROMETRIC PRESSURE (MM OF HG)	10/10/84-11/27/84	2	756.	756.	756.	756.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/10/84-12/16/86	25	6.	5.76	11.	2.	6.607	2.57	2.	4.	7.	10.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/84-12/16/86	25	475.	478.2	540.	435.	708.083	26.61	448.	457.5	497.5	517.
00300	OXYGEN, DISSOLVED MG/L	10/10/84-11/27/84	2	10.45	10.45	11.2	9.7	1.125	1.061	**	**	**	**
00400	PH (STANDARD UNITS)	10/10/84-12/16/86	25	7.9	7.932	8.5	7.	0.069	0.263	7.7	7.9	8.05	8.24
00400	CONVERTED PH (STANDARD UNITS)	10/10/84-12/16/86	25	7.9	7.823	8.5	7.	0.081	0.285	7.7	7.9	8.05	8.24
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/84-12/16/86	25	0.013	0.015	0.1	0.003	0.	0.018	0.006	0.009	0.013	0.02

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

EPA Water Quality Criteria Analysis for Station: HAFE0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	25	0	0.00	7	0	0.00	9	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	25	0	0.00	7	0	0.00	9	0	0.00	9	0	0.00			

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

Station Inventory for Station: HAFE0114

NPS Station ID: HAFE0114
LAT/LON: 39.294726/ -77.888615
Agency: 11COEHUN
Date Created: 11/06/93
Location: Evitts Run
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1AMEW0003
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 5
Aquifer:
Major Basin: MID ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
Located on an un-named stream (north of B & O Railroad) 1.4 miles Westo f Charles Town WV. which flows into Evitts Run and Altona Marsh - Middle way quad - Jefferson County

Parameter Inventory for Station: HAFE0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	2	20.15	20.15	24.	16.3	29.645	5.445	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	3	1.	1.3	2.	0.9	0.37	0.608	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	2	523.	523.	537.	509.	392.	19.799	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	2	6.9	6.9	7.	6.8	0.02	0.141	**	**	**	**
00400	PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.65	7.65	7.7	7.6	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.647	7.647	7.7	7.6	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/93-07/07/94	2	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	3	263.	257.	264.	244.	127.	11.269	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	2	309.	309.	321.	297.	288.	16.971	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	3	383.	393.667	463.	335.	4181.333	64.663	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	3	317.	329.333	354.	317.	456.333	21.362	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	2	12.	12.	12.	12.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	3 ##	0.01	0.04	0.1	0.01	0.003	0.052	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	3	0.04	0.1	0.25	0.01	0.017	0.131	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	3	5.74	4.953	6.03	3.09	2.625	1.62	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	2	4.45	4.45	5.9	3.	4.205	2.051	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	3	0.068	0.063	0.07	0.051	0.	0.01	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/07/93-10/07/93	1	314.	314.	314.	314.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	3	4.7	4.8	5.1	4.6	0.07	0.265	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	1	45.2	45.2	45.2	45.2	0.	0.	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	1	49.8	49.8	49.8	49.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	2	299.5	299.5	301.	298.	4.5	2.121	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	3	107.	103.567	108.	95.7	46.663	6.831	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	3	108.	105.633	112.	96.9	61.203	7.823	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/07/93-10/07/93	1	15800.	15800.	15800.	15800.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/07/93-10/07/93	1	286.	286.	286.	286.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	3	7.5	7.333	7.5	7.	0.083	0.289	**	**	**	**

** - Less 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: HAFE0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	3	7.6	7.533	7.8	7.2	0.093	0.306	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	3	3.67	3.763	4.04	3.58	0.059	0.244	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	3	3.55	3.71	4.04	3.54	0.082	0.286	**	**	**	**
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	3	2.59	2.433	2.6	2.11	0.078	0.28	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	3	2.67	2.657	3.05	2.25	0.16	0.4	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/07/93-10/07/93	1	172.	172.	172.	172.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	3	10.	10.333	12.	9.	2.333	1.528	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	3	11.	11.333	13.	10.	2.333	1.528	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	3	14.3	15.533	18.2	14.1	5.343	2.312	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/07/93-10/07/93	1	22.2	22.2	22.2	22.2	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/07/93-10/07/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/07/93-10/07/93	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	3 ##	1.	1.167	2.	0.5	0.583	0.764	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	2.	3.	1.5	0.75	0.866	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	2.	3.	1.5	0.75	0.866	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/07/93-10/07/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	3	314.	906.	2100.	304.	1069252.	1034.046	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	3 ##	1.5	4.	9.	1.5	18.75	4.33	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/07/93-10/07/93	1	192.	192.	192.	192.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	3	33.	85.	191.	31.	8428.	91.804	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	3	23.	46.5	116.	0.5	3749.25	61.231	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/07/93-10/07/93	1 ##	0.125	0.125	0.125	0.125	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/07/93-10/07/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/07/93-10/07/93	1	32.4	32.4	32.4	32.4	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/07/93-10/07/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	3	4.	7.667	18.	1.	82.333	9.074	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/07/93-10/07/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/07/93-10/07/93	1 ##	0.375	0.375	0.375	0.375	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/07/93-10/07/93	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	3	116.	439.	1140.	61.	369307.	607.706	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	3 ##	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/07/93-10/07/93	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/07/93-10/07/93	1	222.	222.	222.	222.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/07/93-10/07/93	1	25.5	25.5	25.5	25.5	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/07/93-10/07/93	1	4930.	4930.	4930.	4930.	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	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: HAFE0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1	3060.	3060.	3060.	3060.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	2.05	2.05	2.05	2.05	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34394	HEXACHLOROBUTADIENE BOTUG/KG	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.95	1.95	1.95	1.95	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**

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Parameter Inventory for Station: HAFE0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	700.	700.	700.	700.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/07/93-10/07/93	1	5660.	5660.	5660.	5660.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1	4510.	4510.	4510.	4510.	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/07/93-10/07/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	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: HAFE0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	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: HAFE0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/07/93-07/07/94	2 ##	5.54	5.54	10.58	0.5	50.803	7.128	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/07/93-10/07/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/07/93-10/07/93	1	79.5	79.5	79.5	79.5	0.	0.	**	**	**	**
80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/07/93-10/07/93	1	90.3	90.3	90.3	90.3	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	1 ##	0.75	0.75	0.75	0.75	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: HAFE0114

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0114

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00	1	0	0.00									
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00	1	0	0.00									
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00	1	0	0.00									
		Drinking Water	700.	1	0	0.00	1	0	0.00									
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00	1	0	0.00									
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00	1	0	0.00									
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00	1	0	0.00									
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00	1	0	0.00									
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	1	0	0.00	1	0	0.00									
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00	1	0	0.00									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00	1	0	0.00									
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00	1	0	0.00									
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00	1	0	0.00									
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00	1	0	0.00									
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00	1	0	0.00									
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00	1	0	0.00									
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00	1	0	0.00									
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00	1	0	0.00									
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00	1	0	0.00									
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: HAFE0114

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	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: HAFE0115

NPS Station ID: HAFE0115
LAT/LON: 39.295281/ -77.890837
Agency: 11COEHUN
Date Created: 11/06/93
Location: Evitts Run
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 1AMEW0002
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 5
Aquifer:
Major Basin: MID ATLANTIC
Elevation: 0
Water Body Id:
Minor Basin: POTOMAC RIVER
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 12.80
On/Off RF1:
RF3 Index: 02070004010303.75
RF3 Mile Point: 5.94
Distance from RF3: 0.02
On/Off RF3:
Description:
Located on Evitts Run 1.6 miles West of Charles Town WV, just upstreamo f Altona Marsh. - Middleway quad. - Jefferson County

Parameter Inventory for Station: HAFE0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/93-07/07/94	2	19.75	19.75	22.9	16.6	19.845	4.455	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/94-07/07/94	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/07/93-07/07/94	3	7.	6.333	8.	4.	4.333	2.082	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/93-07/07/94	2	517.5	517.5	525.	510.	112.5	10.607	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/07/93-07/07/94	2	10.15	10.15	10.3	10.	0.045	0.212	**	**	**	**
00400	PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/07/93-07/07/94	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/93-07/07/94	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/93-07/07/94	3	256.	255.667	268.	243.	156.333	12.503	**	**	**	**
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	10/07/93-12/16/93	2	311.5	311.5	327.	296.	480.5	21.92	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/94-07/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	10/07/93-07/07/94	3	353.	351.667	377.	325.	677.333	26.026	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/93-07/07/94	3	340.	335.	354.	311.	481.	21.932	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-07/07/94	2	8.	8.	9.	7.	2.	1.414	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/93-07/07/94	3 ##	0.01	0.033	0.08	0.01	0.002	0.04	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/16/93-07/07/94	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-07/07/94	3 ##	0.01	0.11	0.31	0.01	0.03	0.173	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-07/07/94	3	4.07	3.767	4.14	3.09	0.345	0.587	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/16/93-07/07/94	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-07/07/94	3 ##	0.01	0.017	0.03	0.01	0.	0.012	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/93-12/16/93	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10/07/93-10/07/93	1	151.	151.	151.	151.	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/93-07/07/94	3	7.	6.4	8.2	4.	4.68	2.163	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/94-07/07/94	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	07/07/94-07/07/94	1	47.1	47.1	47.1	47.1	0.	0.	**	**	**	**
00690	CARBON, TOTAL (MG/L AS C)	07/07/94-07/07/94	1	51.2	51.2	51.2	51.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/93-12/16/93	2	293.	293.	297.	289.	32.	5.657	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/93-07/07/94	3	104.	102.333	108.	95.	44.333	6.658	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/07/93-07/07/94	3	105.	103.333	109.	96.	44.333	6.658	**	**	**	**
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	10/07/93-10/07/93	1	93000.	93000.	93000.	93000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	10/07/93-10/07/93	1	666.	666.	666.	666.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/93-07/07/94	3	6.7	6.833	7.2	6.6	0.103	0.321	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/07/93-07/07/94	3	6.8	6.867	7.2	6.6	0.093	0.306	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-07/07/94	3	3.82	4.343	5.52	3.69	1.043	1.021	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/93-07/07/94	3	3.65	4.237	5.46	3.6	1.123	1.06	**	**	**	**

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

Parameter Inventory for Station: HAFE0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/93-07/07/94	3	1.67	1.98	2.61	1.66	0.298	0.546	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-07/07/94	3	1.89	2.163	2.83	1.77	0.337	0.58	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	10/07/93-10/07/93	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-07/07/94	3	9.	10.	13.	8.	7.	2.646	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/93-07/07/94	3	12.	12.	13.	11.	1.	1.	**	**	**	**
00958	SILICATE, UNFILTERED REACTIVE (MG/L SIO3 AS SI)	10/07/93-07/07/94	3	13.	13.2	13.8	12.8	0.28	0.529	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-07/07/94	3 ##	1.5	1.667	3.	0.5	1.583	1.258	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	10/07/93-10/07/93	1	23.8	23.8	23.8	23.8	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	10/07/93-10/07/93	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/07/93-10/07/93	1	37.2	37.2	37.2	37.2	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-07/07/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/93-07/07/94	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-07/07/94	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-07/07/94	3 ##	1.5	2.	3.	1.5	0.75	0.866	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	10/07/93-10/07/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/93-07/07/94	3	154.	151.333	164.	136.	201.333	14.189	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/07/93-07/07/94	3 ##	1.5	1.833	2.5	1.5	0.333	0.577	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-07/07/94	3 ##	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	10/07/93-10/07/93	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/93-07/07/94	3	8.	7.	9.	4.	7.	2.646	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/93-07/07/94	3	3.	2.5	4.	0.5	3.25	1.803	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	10/07/93-10/07/93	1 ##	0.125	0.125	0.125	0.125	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-07/07/94	3 ##	4.5	6.333	10.	4.5	10.083	3.175	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	10/07/93-10/07/93	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	10/07/93-10/07/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	10/07/93-10/07/93	1	175.	175.	175.	175.	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	10/07/93-10/07/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/93-07/07/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-07/07/94	3	5.	7.667	17.	1.	69.333	8.327	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	10/07/93-10/07/93	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	10/07/93-10/07/93	1 ##	0.375	0.375	0.375	0.375	0.	0.	**	**	**	**
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	10/07/93-10/07/93	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/93-07/07/94	3	38.	36.333	38.	33.	8.333	2.887	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/07/93-07/07/94	3 ##	10.	8.333	10.	5.	8.333	2.887	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	10/07/93-10/07/93	1	1060.	1060.	1060.	1060.	0.	0.	**	**	**	**
01144	SILICON IN BOTTOM DEPOSITS (MG/KG AS SI DRY WGT)	10/07/93-10/07/93	1	158.	158.	158.	158.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	10/07/93-10/07/93	1	24.2	24.2	24.2	24.2	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	10/07/93-10/07/93	1	4300.	4300.	4300.	4300.	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	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: HAFE0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1	3730.	3730.	3730.	3730.	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34306	CHLORODIBROMOMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	2.05	2.05	2.05	2.05	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	10/07/93-10/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34394	HEXACHLOROBUTADIENE BOTUG/KG	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	1.95	1.95	1.95	1.95	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34452	PARACHLOROMETA CRESOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.105	0.105	0.105	0.105	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	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: HAFE0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
34531	1,2-DICHLOROETHANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	10/07/93-10/07/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	10/07/93-10/07/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	700.	700.	700.	700.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	10/07/93-10/07/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	10/07/93-10/07/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	10/07/93-10/07/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	10/07/93-10/07/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	10/07/93-10/07/93	1 ##	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	10/07/93-10/07/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
34696	NAPHTHALENE TOTWUG/L	10/07/93-10/07/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	10/07/93-10/07/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	10/07/93-10/07/93	1	7700.	7700.	7700.	7700.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1	4450.	4450.	4450.	4450.	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	10/07/93-10/07/93	1 ##	350.	350.	350.	350.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	10/07/93-10/07/93	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	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: HAFE0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	10/07/93-10/07/93	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/07/93-10/07/93	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/07/93-10/07/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	10/07/93-10/07/93	1 ##	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/07/93-10/07/93	1 ##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/07/93-10/07/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	10/07/93-10/07/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10/07/93-10/07/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
78124	BENZENE IN WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) UG/L	10/07/93-10/07/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
78309	ACENAPHTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78310	BENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78311	1,2,4-TRICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78312	HEXACHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78313	HEXACHLOROETHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78314	BIS(2-CHLOROETHYL)ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78315	2-CHLORONAPHTHALENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78316	1,2-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78317	1,3-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78318	1,4-DICHLOROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78319	3,3'-DICHLOROBENZIDINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78320	2,4-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78321	2,6-DINITROTOLUENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78322	1,2-DIPHENYLHYDRAZINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78323	FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78324	4-CHLOROPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78325	4-BROMOPHENYL-PHENYL ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78326	BIS(2-CHLOROISOPROPYL) ETHER SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78327	BIS(2-CHLOROETHOXY) METHANE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78328	HEXACHLOROBUTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78329	HEXACHLOROCYCLOPENTADIENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78330	ISOPHORONE SSUE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78331	NAPHTHALENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78332	NITROBENZENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78333	N-NITROSODIMETHYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78334	N-NITROSODIPHENYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78335	N-NITROSO-DI-N-PROPYLAMINE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78341	DIMETHYL PHTHALATE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78342	BENZO(A)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78343	BENZO(A)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78344	BENZO(B)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78345	BENZO(K)FLUORANTHENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78346	CHRYSENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78347	ACENAPHTHYLENE SEDWETWTMG/K	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78348	ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78349	BENZO(GHI)PERYLENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	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: HAFE0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
78350	FLUORENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78351	PHENANTHRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78352	DIBENZO(A,H)ANTHRACENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78353	INDENO(1,2,3-CD)PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78354	PYRENE SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78398	TRICHLOROPHENOL, 2,4,6- , SEDIMENT, WET WT., MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78399	P-CHLORO-M-CRESOL, SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
78400	CHLOROPHENOL, 2- , SEDIMENT, WET WEIGHT, MG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79401	2,4-DICHLOROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79402	2,4-DIMETHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79403	2-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79404	4-NITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79405	2,4-DINITROPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79406	4,6-DINITRO-2-METHYLPHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79407	PENTACHLOROPHENOL (PCP) SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
79408	PHENOL SEDWETWTMG/KG	07/07/94-07/07/94	1 ##	0.175	0.175	0.175	0.175	0.	0.	**	**	**	**
80149	CARBON, INORGANIC, IN SEDIMENT (% AS C)	10/07/93-07/07/94	2 ##	5.18	5.18	9.86	0.5	43.805	6.619	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/07/93-10/07/93	1	95.	95.	95.	95.	0.	0.	**	**	**	**
80213	BED MATERIAL SIEVE DIAMETER, % FINER THAN 4.76MM	10/07/93-10/07/93	1	97.6	97.6	97.6	97.6	0.	0.	**	**	**	**
80214	BED MATERIAL SIEVE DIAMETER, % FINER THAN 9.52MM	10/07/93-10/07/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80224	BED MATERIAL SIEVE DIAMETER,% FINER THAN .074MM	10/07/93-10/07/93	1	67.3	67.3	67.3	67.3	0.	0.	**	**	**	**
80243	BED MATERIAL SIEVE DIAMETER,% FINER THAN .149MM	10/07/93-10/07/93	1	81.6	81.6	81.6	81.6	0.	0.	**	**	**	**
81551	XYLENE WHL WATER SMPL UG/L	10/07/93-10/07/93	1 ##	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: HAFE0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: HAFE0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00	1	0	0.00									
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00	1	0	0.00									
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00	1	0	0.00									
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00	1	0	0.00									
		Drinking Water	700.	1	0	0.00	1	0	0.00									
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00	1	0	0.00									
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	0 &	0	0.00												
		Drinking Water	50.	1	0	0.00	1	0	0.00									
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00	1	0	0.00									
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00	1	0	0.00									
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	1	0	0.00	1	0	0.00									
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00	1	0	0.00									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00	1	0	0.00									
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00	1	0	0.00									
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00	1	0	0.00									
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00	1	0	0.00									
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00	1	0	0.00									
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00	1	0	0.00									
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00	1	0	0.00									
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00	1	0	0.00									
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00	1	0	0.00									
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00	1	0	0.00									
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	1	0	0.00	1	0	0.00									
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00	1	0	0.00									
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00	1	0	0.00									
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00	1	0	0.00									
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00	1	0	0.00									
		Drinking Water	3.	1	0	0.00	1	0	0.00									
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00	1	0	0.00									
		Drinking Water	0.2	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: HAFE0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	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: HAFE0116

NPS Station ID: HAFE0116 LAT/LON: 39.196670/ -77.897227 Agency: 112WRD Date Created: 06/30/76
Location: LONG MARSH RUN TRIB NR FRANKLINTOWN FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 391148077535001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 02070007 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 02070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 02070007007300.00 RF3 Mile Point: 0.72 Distance from RF3: 0.30 On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	2	16.	16.	22.	10.	72.	8.485	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	1	755.	755.	755.	755.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/03/88-08/03/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/03/88-08/03/88	1	540.	540.	540.	540.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.9	7.9	8.	7.8	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.889	7.889	8.	7.8	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/74-08/03/88	2	0.013	0.013	0.016	0.01	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.041	0.041	0.041	0.041	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	2	90.5	90.5	96.	85.	60.5	7.778	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	2	17.	17.	24.	10.	98.	9.899	**	**	**	**

** - Less 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: HAFE0116

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0116

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0117

NPS Station ID: HAFE0117
LAT/LON: 39.297782/ -77.898616
Agency: 112WRD
Date Created: / /
Location: 2103023/ENGLE SPRINGS
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 391752077535501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 9.30
On/Off RF1:
RF3 Index: 02070007007200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.67
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/33-05/16/33	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/16/33-05/16/33	1	138.	138.	138.	138.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/16/33-05/16/33	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/16/33-05/16/33	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/16/33-05/16/33	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/16/33-05/16/33	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/16/33-05/16/33	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/16/33-05/16/33	1	21.	21.	21.	21.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	05/16/33-05/16/33	1	20.	20.	20.	20.	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: HAFE0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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			
71850	NITRATE NITROGEN, TOTAL (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: HAFE0118

NPS Station ID: HAFE0118
LAT/LON: 39.296448/ -77.899449
Agency: 21WV7IWQ
Date Created: 11/21/87
Location: Evitts Run west of Charles Town, W. Va.
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550926 /S-008-08 /X-MIN-88S004
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin: Mid Atlantic
Elevation: 0
Water Body Id: WVS-4
Minor Basin: Potomac River / Shenandoah River
ECO Region: 66G
RF1 Index: 02070007001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 02070007017600.00
RF3 Mile Point: 2.42
Distance from RF3: 0.06
On/Off RF3:
Description:
Evitts Run at West Virginia State Route 51 Highway Bridge near Rail- road Crossing west of Charles Town, Jefferson County, West Virginia
A State of West Virginia Water Quality Sampling Station maintained by District 2, Division of Water Resources, West Virginia Department
of Natural Resources, Romney, West Virginia. Sampling done monthly from October 1987 to October 1988.
> Middleway, WV Quadrangle 7.5 Minute Topographic Map <

Parameter Inventory for Station: HAFE0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/06/87-09/07/88	10	14.	13.	22.	2.	34.444	5.869	2.5	7.75	16.5	21.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/06/87-09/07/88	12	420.	427.5	520.	360.	2893.182	53.788	363.	382.5	462.5	520.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	09/07/88-09/07/88	1	11.8	11.8	11.8	11.8	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	10/06/87-09/07/88	11	4.	5.455	12.	2.	9.673	3.11	2.	4.	8.	11.2
00403	PH, LAB, STANDARD UNITS SU	10/06/87-09/07/88	12	8.	7.992	8.3	7.8	0.019	0.138	7.83	7.9	8.	8.27
00403	CONVERTED PH, LAB, STANDARD UNITS	10/06/87-09/07/88	12	8.	7.974	8.3	7.8	0.019	0.139	7.83	7.9	8.	8.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	12	0.01	0.011	0.016	0.005	0.	0.003	0.005	0.01	0.013	0.015
00406	PH, FIELD, STANDARD UNITS SU	10/06/87-09/07/88	10	8.	7.95	8.	7.5	0.025	0.158	7.55	8.	8.	8.
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/06/87-09/07/88	10	8.	7.915	8.	7.5	0.026	0.162	7.55	8.	8.	8.
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/06/87-09/07/88	10	0.01	0.012	0.032	0.01	0.	0.007	0.01	0.01	0.01	0.029
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	229.5	229.083	263.	203.	208.083	14.425	206.9	221.5	235.25	255.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/06/87-09/07/88	12	14.5	14.333	32.	2.	67.333	8.206	2.3	8.75	18.75	28.7
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/06/87-09/07/88	11	0.25	0.268	0.45	0.17	0.006	0.08	0.172	0.2	0.3	0.428
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/06/87-09/07/88	11	3.5	3.482	5.1	1.7	1.15	1.072	1.8	2.7	4.5	5.06
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/06/87-09/07/88	11	0.026	0.062	0.465	0.011	0.018	0.134	0.011	0.017	0.029	0.378
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/06/87-09/07/88	12	267.	262.333	310.	164.	1234.788	35.14	187.4	256.5	278.	302.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/06/87-09/07/88	12	6.5	6.417	8.	4.	0.992	0.996	4.6	6.	7.	7.7
00945	SULFATE, TOTAL (MG/L AS SO4)	10/06/87-08/03/88	11	16.	15.273	20.	12.	5.818	2.412	12.	14.	16.	19.6
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/88-09/07/88	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/88-09/07/88	2	70.	70.	70.	70.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/88-09/07/88	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/88-09/07/88	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/88-09/07/88	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/06/87-09/07/88	12	178.	201.833	540.	104.	13753.788	117.277	106.4	132.	234.5	456.
01051	LEAD, TOTAL (UG/L AS PB)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/06/87-09/07/88	12	11.	14.167	20.	10.	23.606	4.859	10.	10.	20.	20.
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/88-09/07/88	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/88-09/07/88	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/88-09/07/88	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

Parameter Inventory for Station: HAFE0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/06/87-09/07/88	12	97.	96.333	140.	60.	956.97	30.935	61.2	65.5	128.5	140.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/88-09/07/88	2 ##	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/06/87-09/07/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/88-09/07/88	2 ##	0.075	0.075	0.1	0.05	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: HAFE0118

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	0	0.00	3	0	0.00	3	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	3	0	0.00	3	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	5	0	0.00	4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: HAFE0119

NPS Station ID: HAFE0119
LAT/LON: 39.296392/ -77.899726
Agency: 112WRD
Date Created: 11/18/75
Location: EVITTS RUN NR CHARLES TOWN
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 391747077535901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 9.40
On/Off RF1:
RF3 Index: 02070007007400.00
RF3 Mile Point: 1.54
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/04/88	2	16.75	16.75	20.5	13.	28.125	5.303	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/04/88-08/04/88	1	753.	753.	753.	753.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/04/88	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/04/88-08/04/88	1	495.	495.	495.	495.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/04/88-08/04/88	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/74-08/04/88	2	7.8	7.8	8.	7.6	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/74-08/04/88	2	7.755	7.755	8.	7.6	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/74-08/04/88	2	0.018	0.018	0.025	0.01	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/88-08/04/88	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/04/88-08/04/88	1	293.	293.	293.	293.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/04/88-08/04/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.021	0.021	0.021	0.021	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/25/88-08/25/88	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/25/88-08/25/88	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/25/88-08/25/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/04/88	2	90.	90.	95.	85.	50.	7.071	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/04/88	2	7.4	7.4	7.5	7.3	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/04/88	2	11.	11.	12.	10.	2.	1.414	**	**	**	**

** - Less 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: HAFE0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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: HAFE0120

NPS Station ID: HAFE0120
LAT/LON: 39.237781/ -77.904170
Agency: 112WRD
Date Created: 06/30/76
Location: BULLSKIN RUN NR WHEAT LAND
FIPS State/County: 54037 WEST VIRGINIA/JEFFERSON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 391416077541501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 02070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 02070007
RF1 Mile Point: 0.000
Distance from RF1: 22.60
On/Off RF1:
RF3 Index: 02070007016500.03
RF3 Mile Point: 0.66
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: HAFE0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/24/74-08/03/88	2	14.5	14.5	20.	9.	60.5	7.778	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/03/88-08/03/88	1	754.	754.	754.	754.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/24/74-08/03/88	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/03/88-08/03/88	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/03/88-08/03/88	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.8	7.8	8.	7.6	0.08	0.283	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/24/74-08/03/88	2	7.755	7.755	8.	7.6	0.084	0.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/74-08/03/88	2	0.018	0.018	0.025	0.01	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/88-08/03/88	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/88-08/03/88	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/03/88-08/03/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/03/88-08/03/88	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/24/74-09/24/74	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/24/74-09/24/74	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/03/88-08/03/88	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/03/88-08/03/88	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/74-09/24/74	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/74-08/03/88	2	91.5	91.5	95.	88.	24.5	4.95	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/74-08/03/88	2	7.75	7.75	8.1	7.4	0.245	0.495	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/24/74-08/03/88	2	5.5	5.5	8.	3.	12.5	3.536	**	**	**	**

** - Less 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: HAFE0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	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									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									

& - 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: HAFE0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
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									

& - 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 HAFE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	377 &	39	0.10	107	9	0.08	140	12	0.09	130	18	0.14			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	459	12	0.03	114	0	0.00	159	8	0.05	186	4	0.02			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	221	1	0.00	61	0	0.00	75	1	0.01	85	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1392	6	0.00	389	2	0.01	460	0	0.00	543	4	0.01			
00400	PH	Other-Hi Lim.	9.	1785	100	0.06	525	33	0.06	600	38	0.06	660	29	0.04			
		Other-Lo Lim.	6.5	1785	14	0.01	525	3	0.01	600	7	0.01	660	4	0.01			
00403	PH, LAB	Other-Hi Lim.	9.	929	3	0.00	232	1	0.00	349	1	0.00	348	1	0.00			
		Other-Lo Lim.	6.5	929	5	0.01	232	2	0.01	349	1	0.00	348	2	0.01			
00406	PH, FIELD	Other-Hi Lim.	9.	112	0	0.00	27	0	0.00	44	0	0.00	41	0	0.00			
		Other-Lo Lim.	6.5	112	0	0.00	27	0	0.00	44	0	0.00	41	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	267	0	0.00	74	0	0.00	96	0	0.00	97	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	351	3	0.01	96	1	0.01	107	1	0.01	148	1	0.01			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	184	0	0.00	48	0	0.00	73	0	0.00	63	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	643	5	0.01	169	1	0.01	206	0	0.00	268	4	0.01			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	799	1	0.00	213	0	0.00	300	1	0.00	286	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	240	1	0.00	61	0	0.00	88	1	0.01	91	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	93	1	0.01	31	0	0.00	40	0	0.00	22	1	0.05			
		Drinking Water	0.2	93	0	0.00	31	0	0.00	40	0	0.00	22	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1260	0	0.00	370	0	0.00	441	0	0.00	449	0	0.00			
		Drinking Water	250.	1260	0	0.00	370	0	0.00	441	0	0.00	449	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1031	0	0.00	263	0	0.00	387	0	0.00	381	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	403	0	0.00	106	0	0.00	138	0	0.00	159	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	315	3	0.01	81	0	0.00	131	2	0.02	103	1	0.01			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	117	0	0.00	34	0	0.00	47	0	0.00	36	0	0.00			
		Drinking Water	50.	117	0	0.00	34	0	0.00	47	0	0.00	36	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	27	0	0.00	6	0	0.00	11	0	0.00	10	0	0.00			
		Drinking Water	50.	27	0	0.00	6	0	0.00	11	0	0.00	10	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	164	0	0.00	57	0	0.00	56	0	0.00	51	0	0.00			
		Drinking Water	50.	164	0	0.00	57	0	0.00	56	0	0.00	51	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	118	0	0.00	35	0	0.00	49	0	0.00	34	0	0.00			
01006	BARIUM, SUSPENDED	Drinking Water	2000.	21	0	0.00	5	0	0.00	10	0	0.00	6	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	76	0	0.00	35	0	0.00	26	0	0.00	15	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	74	0	0.00	24	0	0.00	30	0	0.00	20	0	0.00			
		Drinking Water	4.	74	0	0.00	24	0	0.00	30	0	0.00	20	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	4.	3 &	1	0.33				2	0	0.00	1	1	1.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	160 &	2	0.01	50	0	0.00	61	0	0.00	49	2	0.04			
		Drinking Water	5.	160 &	1	0.01	50	0	0.00	61	0	0.00	49	1	0.02			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	20	0	0.00	5	0	0.00	7	0	0.00	8	0	0.00			
		Drinking Water	5.	20	0	0.00	5	0	0.00	7	0	0.00	8	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	331 &	15	0.05	103	5	0.05	119	10	0.08	109	0	0.00			
		Drinking Water	5.	331 &	9	0.03	103	2	0.02	119	7	0.06	109	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	117	0	0.00	35	0	0.00	46	0	0.00	36	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	21	0	0.00	4	0	0.00	8	0	0.00	9	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	300	2	0.01	79	1	0.01	118	1	0.01	103	0	0.00			
		Drinking Water	100.	300	1	0.00	79	0	0.00	118	1	0.01	103	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	219	1	0.00	79	0	0.00	79	0	0.00	61	1	0.02			
01040	COPPER, DISSOLVED	Fresh Acute	18.	126	1	0.01	38	1	0.03	51	0	0.00	37	0	0.00			
		Drinking Water	1300.	126	0	0.00	38	0	0.00	51	0	0.00	37	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	27	1	0.04	6	0	0.00	11	1	0.09	10	0	0.00			
		Drinking Water	1300.	27	0	0.00	6	0	0.00	11	0	0.00	10	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	211 &	11	0.05	66	0	0.00	77	4	0.05	68	7	0.10			
		Drinking Water	1300.	212	0	0.00	67	0	0.00	77	0	0.00	68	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	181	1	0.01	54	0	0.00	71	0	0.00	56	1	0.02			
		Drinking Water	15.	153 &	20	0.13	48	8	0.17	58	6	0.10	47	6	0.13			
01050	LEAD, SUSPENDED	Fresh Acute	82.	25	0	0.00	6	0	0.00	9	0	0.00	10	0	0.00			
		Drinking Water	15.	25	4	0.16	6	0	0.00	9	2	0.22	10	2	0.20			
01051	LEAD, TOTAL	Fresh Acute	82.	372	1	0.00	109	0	0.00	131	0	0.00	132	1	0.01			
		Drinking Water	15.	253 &	58	0.23	77	16	0.21	89	23	0.26	87	19	0.22			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	2.	0 &	0	0.00												

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

EPA Water Quality Criteria Analysis for Entire HAFE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	145	0	0.00	40	0	0.00	61	0	0.00	44	0	0.00			
		Drinking Water	100.	145	0	0.00	40	0	0.00	61	0	0.00	44	0	0.00			
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	21	0	0.00	4	0	0.00	11	0	0.00	6	0	0.00			
		Drinking Water	100.	21	0	0.00	4	0	0.00	11	0	0.00	6	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	127	0	0.00	53	0	0.00	47	0	0.00	27	0	0.00			
		Drinking Water	100.	127	1	0.01	53	0	0.00	47	0	0.00	27	1	0.04			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	151 &	0	0.00	48	0	0.00	61	0	0.00	42	0	0.00			
		Drinking Water	100.	157	0	0.00	50	0	0.00	61	0	0.00	46	0	0.00			
01076	SILVER, SUSPENDED	Fresh Acute	4.1	19	0	0.00	4	0	0.00	7	0	0.00	8	0	0.00			
		Drinking Water	100.	19	0	0.00	4	0	0.00	7	0	0.00	8	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	143 &	11	0.08	58	2	0.03	53	5	0.09	32	4	0.13			
		Drinking Water	100.	151	0	0.00	60	0	0.00	53	0	0.00	38	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	130	2	0.02	40	1	0.03	51	1	0.02	39	0	0.00			
		Drinking Water	5000.	130	0	0.00	40	0	0.00	51	0	0.00	39	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	21	1	0.05	4	0	0.00	9	1	0.11	8	0	0.00			
		Drinking Water	5000.	21	0	0.00	4	0	0.00	9	0	0.00	8	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	229	19	0.08	77	3	0.04	79	10	0.13	73	6	0.08			
		Drinking Water	5000.	229	0	0.00	77	0	0.00	79	0	0.00	73	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	30	7	0.23	12	3	0.25	13	3	0.23	5	1	0.20			
		Drinking Water	6.	21 &	14	0.67	8	6	0.75	10	7	0.70	3	1	0.33			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	119	0	0.00	36	0	0.00	49	0	0.00	34	0	0.00			
		Drinking Water	50.	119	0	0.00	36	0	0.00	49	0	0.00	34	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	19	0	0.00	4	0	0.00	7	0	0.00	8	0	0.00			
		Drinking Water	50.	19	0	0.00	4	0	0.00	7	0	0.00	8	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	106	1	0.01	46	1	0.02	38	0	0.00	22	0	0.00			
		Drinking Water	50.	106	0	0.00	46	0	0.00	38	0	0.00	22	0	0.00			
04035	SIMAZINE, DISSOLVED, WATER, TOTAL RECOVE	Drinking Water	4.	23	0	0.00	5	0	0.00	2	0	0.00	16	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	2	0	0.00							2	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	325	146	0.45	85	50	0.59	137	40	0.29	103	56	0.54			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	431	257	0.60	112	75	0.67	139	79	0.57	180	103	0.57			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	6	6	1.00	3	3	1.00				3	3	1.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	11	6	0.55	3	3	1.00	1	0	0.00	7	3	0.43			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	234	136	0.58	60	39	0.65	67	33	0.49	107	64	0.60			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	652 &	181	0.28	169	61	0.36	259	48	0.19	224	72	0.32			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	189	53	0.28	49	15	0.31	67	14	0.21	73	24	0.33			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	3	0	0.00							3	0	0.00			
		Drinking Water	5.	3	0	0.00							3	0	0.00			
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	7	0	0.00	4	0	0.00				3	0	0.00			
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	4	0	0.00				1	0	0.00	3	0	0.00			
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	4	0	0.00				1	0	0.00	3	0	0.00			
		Drinking Water	1000.	4	0	0.00				1	0	0.00	3	0	0.00			
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	4	0	0.00	4	0	0.00									
34210	ACROLEIN, TOTAL	Fresh Acute	68.	1	0	0.00							1	0	0.00			
34215	ACRYLONITRILE, TOTAL	Fresh Acute	7550.	1	0	0.00							1	0	0.00			
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34306	CHLORODIBROMOMETHANE, TOTAL	Drinking Water	100.	4	0	0.00	4	0	0.00									
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	5	0	0.00	4	0	0.00	1	0	0.00						
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	6	0	0.00	5	0	0.00	1	0	0.00						
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	2	0	0.00	1	0	0.00	1	0	0.00						
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	700.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	5	0	0.00	4	0	0.00	1	0	0.00						
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	0 &	0	0.00												
		Drinking Water	50.	5	0	0.00	4	0	0.00	1	0	0.00						
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	5	0	0.00	4	0	0.00	1	0	0.00						
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	5	0	0.00	4	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 HAFE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	5	0	0.00	4	0	0.00	1	0	0.00						
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	5	0	0.00	4	0	0.00	1	0	0.00						
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	5	0	0.00	4	0	0.00	1	0	0.00						
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	4	0	0.00	4	0	0.00									
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	5	0	0.00	4	0	0.00	1	0	0.00						
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	7	0	0.00	4	0	0.00				3	0	0.00			
34531	1,2-DICHLOROETHANE, TOTAL	Fresh Acute	118000.	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	5.	5	0	0.00	4	0	0.00	1	0	0.00						
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00							1	0	0.00			
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	4	0	0.00				1	0	0.00	3	0	0.00			
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	4	0	0.00	4	0	0.00									
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	5	0	0.00	4	0	0.00	1	0	0.00						
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	5	0	0.00	4	0	0.00	1	0	0.00						
34653	P,P'-DDE, DISSOLVED	Fresh Acute	1050.	23	0	0.00	5	0	0.00	2	0	0.00	16	0	0.00			
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	4	0	0.00	4	0	0.00									
34696	NAPHTHALENE, TOTAL	Fresh Acute	2300.	6	0	0.00	4	0	0.00	1	0	0.00	1	0	0.00			
38866	OXAMYL, DISSOLVED	Drinking Water	200.	11	0	0.00	2	0	0.00	2	0	0.00	7	0	0.00			
38933	CHLORPYRIFOS, DISSOLVED	Fresh Acute	0.083	23	0	0.00	5	0	0.00	2	0	0.00	16	0	0.00			
39015	ETHYLPARATHION, FLAME IONIFATION, WATER	Fresh Acute	0.065	6	0	0.00	6	0	0.00									
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	1.	1	0	0.00	1	0	0.00									
39055	SIMAZINE IN WHOLE WATER	Drinking Water	4.	3	0	0.00							3	0	0.00			
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	6.	5	0	0.00	4	0	0.00	1	0	0.00						
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	4	0	0.00				1	0	0.00	3	0	0.00			
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00	1	0	0.00									
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	6	0	0.00	5	0	0.00	1	0	0.00						
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	6	0	0.00	5	0	0.00	1	0	0.00						
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP.	Fresh Acute	3.	1	0	0.00							1	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	11	0	0.00	7	0	0.00				4	0	0.00			
		Drinking Water	0.2	11	0	0.00	7	0	0.00				4	0	0.00			
39341	GAMMA-BHC(LINDANE), DISSOLVED	Fresh Acute	2.	24	0	0.00	5	0	0.00	2	0	0.00	17	0	0.00			
		Drinking Water	0.2	24	0	0.00	5	0	0.00	2	0	0.00	17	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	11	0	0.00	6	0	0.00	1	0	0.00	4	0	0.00			
		Drinking Water	2.	11	0	0.00	6	0	0.00	1	0	0.00	4	0	0.00			
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	6	0	0.00	2	0	0.00				4	0	0.00			
39361	DDD IN FILT. FRAC. OF WATER SMAPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	7	0	0.00	2	0	0.00				5	0	0.00			
39366	DDE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	10	0	0.00	4	0	0.00	2	0	0.00	4	0	0.00			
39371	DDT IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	8	0	0.00	3	0	0.00	1	0	0.00	4	0	0.00			
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	2.5	24	0	0.00	5	0	0.00	2	0	0.00	17	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	4	0	0.00							4	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

EPA Water Quality Criteria Analysis for Entire HAFE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	8/01-10/31 Obs	8/01-10/31 Exceed	8/01-10/31 Prop.	11/01-3/20 Obs	11/01-3/20 Exceed	11/01-3/20 Prop.	3/21-7/31 Obs	3/21-7/31 Exceed	3/21-7/31 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
		Drinking Water	3.	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.73	1	0	0.00							1	0	0.00			
		Drinking Water	3.	1	0	0.00							1	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	7	0	0.00	3	0	0.00				4	0	0.00			
		Drinking Water	0.4	7	0	0.00	3	0	0.00				4	0	0.00			
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPL	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.4	1	0	0.00							1	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
		Drinking Water	0.2	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	7	0	0.00	2	0	0.00	1	0	0.00	4	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	6	0	0.00	2	0	0.00				4	0	0.00			
39542	PARATHION IN FILT. FRAC. OF WATER SAMPLE	Fresh Acute	0.065	24	0	0.00	5	0	0.00	2	0	0.00	17	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	3	0	0.00							3	0	0.00			
39632	ATRAZINE DISSOLVED IN WATER	Drinking Water	3.	23	0	0.00	5	0	0.00	2	0	0.00	16	0	0.00			
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	1.	5	0	0.00	4	0	0.00	1	0	0.00						
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPL	Fresh Acute	90.	1	0	0.00							1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	5	0	0.00	3	0	0.00				2	0	0.00			
39732	2,4-D IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	70.	15	0	0.00	2	0	0.00	2	0	0.00	11	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	5	0	0.00	3	0	0.00				2	0	0.00			
39762	SILVEX IN FILT. FRAC. OF WATER SAMPLE	Drinking Water	50.	15	0	0.00	2	0	0.00	2	0	0.00	11	0	0.00			
46342	ALACHLOR (LASSO), WATER, DISSOLVED	Drinking Water	2.	23	0	0.00	5	0	0.00	2	0	0.00	16	0	0.00			
50060	CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	5	3	0.60	1	0	0.00	1	0	0.00	3	3	1.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	8	0	0.00				2	0	0.00	6	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	106	0	0.00	33	0	0.00	34	0	0.00	39	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	99	0	0.00	28	0	0.00	41	0	0.00	30	0	0.00			
		Drinking Water	2.	99	0	0.00	28	0	0.00	41	0	0.00	30	0	0.00			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	15	0	0.00	3	0	0.00	7	0	0.00	5	0	0.00			
		Drinking Water	2.	15	0	0.00	3	0	0.00	7	0	0.00	5	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	218	0	0.00	75	0	0.00	80	0	0.00	63	0	0.00			
		Drinking Water	2.	218	0	0.00	75	0	0.00	80	0	0.00	63	0	0.00			
77093	CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	Drinking Water	70.	1	0	0.00							1	0	0.00			
77128	STYRENE, WHOLE WATER	Drinking Water	100.	3	0	0.00							3	0	0.00			
77651	1,2-DIBROMOETHANE, WHOLE WATER	Drinking Water	0.05	0 &	0	0.00												
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	2	0	0.00	3	0	0.00	2	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	400	7	0.02	98	1	0.01	161	1	0.01	141	5	0.04			
82350	METHOXYCHLOR, DISSOLVED IN WATER	Drinking Water	40.	1	0	0.00							1	0	0.00			
82354	ENDOSULFAN, DISSOLVED IN WATER	Fresh Acute	0.22	1	0	0.00							1	0	0.00			
82625	DIBROMOCHLOROPROPANE, WATER, TOTAL RECOV	Drinking Water	0.2	0 &	0	0.00												

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NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

There are STORET Data for Every Level I I&M Parameter Group Within the HAFE Study Area

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

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

Alkalinity		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1662	800	339	523	74
00435	ACIDITY, TOTAL (MG/L AS CACO3)	113	0	46	67	6
00440	BICARBONATE ION (MG/L AS HCO3)	171	32	17	122	27
00445	CARBONATE ION (MG/L AS CO3)	133	26	16	91	23
		2079	858	418	803	130 (77)[!]

pH		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	1901	815	553	533	79
00403	PH, LAB (STANDARD UNITS)	934	426	352	156	41
00406	PH, FIELD (STANDARD UNITS)	112	112	0	0	11
		2947	1353	905	689	131 (87)[!]

Conductivity		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	483	325	157	1	10
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1569	767	490	312	66
00096	SALINITY AT 25 DEGREES C (MG/ML)	1	1	0	0	1
00480	SALINITY - PARTS PER THOUSAND	277	160	81	36	4
		2330	1253	728	349	81 (71)[!]

Dissolved Oxygen		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	221	158	63	0	22
00300	OXYGEN, DISSOLVED (MG/L)	1511	594	501	416	62
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	477	101	237	139	8
		2209	853	801	555	92 (78)[!]

Water Temperature		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	2535	1012	751	772	86
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	229	0	118	111	3
		2764	1012	869	883	89 (86)[!]

Flow		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	3	1	1	1	2
00060	FLOW, STREAM, MEAN DAILY CFS	658	134	305	219	14
00061	FLOW, STREAM, INSTANTANEOUS CFS	1255	389	465	401	28
00065	STAGE, STREAM (FEET)	619	221	246	152	8
		2535	745	1017	773	52 (40)[!]

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Clarity/Turbidity		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	379	5	0	374	16
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	80	24	56	0	2
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	495	264	199	32	9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	993	434	342	217	34
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	7	7	0	0	1
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	400	191	203	6	10
		2354	925	800	629	72 (53)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	290	178	112	0	6
00602	NITROGEN, DISSOLVED (MG/L AS N)	32	2	30	0	3
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	142	27	110	5	9
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	28	1	27	0	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	474	346	125	3	29
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	900	373	421	106	43
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	220	162	0	58	10
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	717	284	191	242	37
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	99	47	52	0	13
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	1189	577	510	102	47
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	835	446	343	46	52
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	240	164	74	2	28
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	47	0	47	0	2
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	57	4	50	3	3
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	8	0	0	8	5
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	106	1	0	105	9
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	4	2	0	2	2
		5388	2614	2092	682	300 (84)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	22	0	10	12	5
00655	PHOSPHATE, POLY (MG/L AS PO4)	6	0	6	0	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	529	422	89	18	19
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1156	604	507	45	41
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	235	144	91	0	14
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	204	158	46	0	28
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	140	0	71	69	2
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	222	44	108	70	10
		2514	1372	928	214	120 (70)[1]

Chlorophyll		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	179	173	0	6	6
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	231	203	28	0	3
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	4	0	4	0	1
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	4	0	4	0	1
32230	CHLOROPHYLL A (MG/L)	56	56	0	0	1
		474	432	36	6	12 (6)[1]

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Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	824	169	306	349	50
00945	SULFATE, TOTAL (MG/L AS SO4)	1031	426	339	266	46
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	671	168	428	75	21
		2526	763	1073	690	117 (69)[!]

Bacteria		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	325	0	189	136	5
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	514	134	142	238	12
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	39	33	0	6	5
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	78	25	47	6	6
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	234	108	76	50	9
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	698	166	271	261	18
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	191	107	84	0	7
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	192	106	86	0	7
		2271	679	895	697	69 (36)[!]

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Toxic Elements		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01097	ANTIMONY, TOTAL (UG/L AS SB)	30	9	21	0	3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	117	72	45	0	10
01001	ARSENIC, SUSPENDED (UG/L AS AS)	27	0	27	0	2
01002	ARSENIC, TOTAL (UG/L AS AS)	164	47	102	15	27
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	74	56	18	0	4
01012	BERYLLIUM, TOTAL (UG/L AS BE)	4	4	0	0	2
01025	CADMIUM, DISSOLVED (UG/L AS CD)	164	72	45	47	13
01026	CADMIUM, SUSPENDED (UG/L AS CD)	20	0	20	0	2
01027	CADMIUM, TOTAL (UG/L AS CD)	353	48	254	51	33
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	117	72	43	2	11
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	21	0	21	0	2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	300	0	203	97	3
01034	CHROMIUM, TOTAL (UG/L AS CR)	219	48	142	29	30
01040	COPPER, DISSOLVED (UG/L AS CU)	126	72	45	9	13
01041	COPPER, SUSPENDED (UG/L AS CU)	27	0	27	0	2
01042	COPPER, TOTAL (UG/L AS CU)	212	48	128	36	34
01049	LEAD, DISSOLVED (UG/L AS PB)	181	73	45	63	13
01050	LEAD, SUSPENDED (UG/L AS PB)	25	0	25	0	2
01051	LEAD, TOTAL (UG/L AS PB)	372	49	250	73	33
71890	MERCURY, DISSOLVED (UG/L AS HG)	99	55	44	0	4
71895	MERCURY, SUSPENDED (UG/L AS HG)	15	0	15	0	2
71900	MERCURY, TOTAL (UG/L AS HG)	218	31	131	56	27
01065	NICKEL, DISSOLVED (UG/L AS NI)	145	90	48	7	12
01066	NICKEL, SUSPENDED (UG/L AS NI)	21	0	21	0	2
01067	NICKEL, TOTAL (UG/L AS NI)	127	47	78	2	26
01145	SELENIUM, DISSOLVED (UG/L AS SE)	119	74	45	0	4
01146	SELENIUM, SUSPENDED (UG/L AS SE)	19	0	19	0	2
01147	SELENIUM, TOTAL (UG/L AS SE)	106	29	77	0	17
01075	SILVER, DISSOLVED (UG/L AS AG)	157	72	45	40	4
01076	SILVER, SUSPENDED (UG/L AS AG)	19	0	19	0	2
01077	SILVER, TOTAL (UG/L AS AG)	151	27	92	32	18
01059	THALLIUM, TOTAL (UG/L AS TL)	1	1	0	0	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	130	72	45	13	13
01091	ZINC, SUSPENDED (UG/L ZN)	21	0	21	0	2
01092	ZINC, TOTAL (UG/L AS ZN)	229	51	138	40	35
00720	CYANIDE, TOTAL (MG/L AS CN)	93	0	76	17	5
34210	ACROLEIN, TOTAL (UG/L)	1	1	0	0	1
34215	ACRYLONITRILE, TOTAL (UG/L)	1	1	0	0	1
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	4	4	0	0	3
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	4	4	0	0	4
32104	BROMOFORM, WHOLE WATER, (UG/L)	7	7	0	0	6
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	8	8	0	0	7
34301	CHLOROBENZENE, TOTAL (UG/L)	8	8	0	0	7
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	4	4	0	0	3
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	4	4	0	0	4
34311	CHLOROETHANE, TOTAL (UG/L)	8	8	0	0	7
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	7	7	0	0	6
32106	CHLOROFORM, WHOLE WATER (UG/L)	8	8	0	0	7
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	8	8	0	0	7
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	8	8	0	0	7
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	3	3	0	0	2
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	5	5	0	0	5
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	8	8	0	0	7
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	8	8	0	0	7
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	2	2	0	0	2

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Toxic Elements - Continued ...		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34371	ETHYLBENZENE, TOTAL (UG/L)	8	8	0	0	7
34413	METHYL BROMIDE, TOTAL (UG/L)	8	8	0	0	7
34418	METHYL CHLORIDE, TOTAL (UG/L)	8	8	0	0	7
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	8	8	0	0	7
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	8	8	0	0	7
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	8	8	0	0	7
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	4	4	0	0	3
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	4	4	0	0	4
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	8	8	0	0	7
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	8	8	0	0	7
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	7	7	0	0	6
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	8	8	0	0	7
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	4	4	0	0	3
34586	2-CHLOROPHENOL, TOTAL (UG/L)	4	4	0	0	4
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	5	5	0	0	5
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	5	5	0	0	5
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	5	5	0	0	5
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	5	5	0	0	5
34591	2-NITROPHENOL, TOTAL (UG/L)	5	5	0	0	5
34646	4-NITROPHENOL, TOTAL (UG/L)	4	4	0	0	4
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	4	4	0	0	4
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	4	4	0	0	4
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	5	5	0	0	5
34205	ACENAPHTHENE, TOTAL (UG/L)	4	4	0	0	4
34200	ACENAPHTHYLENE, TOTAL (UG/L)	5	5	0	0	5
34220	ANTHRACENE, TOTAL (UG/L)	5	5	0	0	5
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	5	5	0	0	5
34247	BENZO-A-PYRENE, TOTAL (UG/L)	5	5	0	0	5
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	5	5	0	0	5
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	5	5	0	0	5
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	5	5	0	0	5
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	5	5	0	0	5
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	5	5	0	0	5
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	5	5	0	0	5
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	5	5	0	0	5
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	5	5	0	0	5
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	5	5	0	0	5
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	5	5	0	0	5
34320	CHRYSENE, TOTAL (UG/L)	5	5	0	0	5
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	5	5	0	0	5
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	9	9	0	0	8
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	9	9	0	0	8
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	4	4	0	0	3
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	5	5	0	0	5
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	5	5	0	0	5
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	5	5	0	0	5
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	5	5	0	0	5
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	5	5	0	0	5
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	5	5	0	0	5
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	5	5	0	0	5
34376	FLUORANTHENE, TOTAL (UG/L)	5	5	0	0	5
34381	FLUORENE, TOTAL (UG/L)	5	5	0	0	5
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5

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Toxic Elements - Continued ...		Total Obs.	01/01/85 to 08/13/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	5	5	0	0	5
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	5	5	0	0	5
34396	HEXACHLOROETHANE, TOTAL (UG/L)	5	5	0	0	5
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	5	5	0	0	5
34408	ISOPHORONE, TOTAL (UG/L)	5	5	0	0	5
34696	NAPHTHALENE, TOTAL (UG/L)	6	6	0	0	6
34447	NITROBENZENE, TOTAL (UG/L)	5	5	0	0	5
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	5	5	0	0	5
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	5	5	0	0	5
34461	PHENANTHRENE, TOTAL (UG/L)	5	5	0	0	5
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	1	1	0	0	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	12	10	2	0	11
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	1	1	0	0	1
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	23	23	0	0	6
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	6	6	0	0	6
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	6	6	0	0	6
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	11	9	2	0	10
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	24	24	0	0	6
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	6	6	0	0	6
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	11	9	2	0	10
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	1	1	0	0	1
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10	4	2	4	7
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1
34653	P,P'-DDE, DISSOLVED (UG/L)	23	23	0	0	6
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	7	4	2	1	6
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	6	4	2	0	5
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	1	1	0	0	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	8	6	2	0	7
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	24	24	0	0	6
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	2	2	0	0	2
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	6	6	0	0	6
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1	1	0	0	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	7	5	2	0	6
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	7	5	2	0	6
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	12	10	2	0	11
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1	1	0	0	1
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	6	6	0	0	6
34671	PCB - 1016, TOTAL (UG/L)	6	6	0	0	6
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	12	10	2	0	11
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	1	1	0	0	1
		4964	1933	2397	634	1045 (42)[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	2079	858	41.3	77	81.9	27.0	05/16/33-06/17/96	33.0
pH	2947	1353	45.9	87	92.6	33.9	01/26/45-08/13/96	57.2
Conductivity	2330	1253	53.8	71	75.5	32.8	05/03/57-08/13/96	59.3
Dissolved Oxygen	2209	853	38.6	78	83.0	28.3	09/18/46-08/13/96	44.3
Water Temperature	2764	1012	36.6	86	91.5	32.1	05/16/33-08/13/96	43.7
Flow	2535	745	29.4	40	42.6	63.4	10/31/45-06/17/96	50.1
Clarity/Turbidity	2354	925	39.3	53	56.4	44.4	08/04/54-06/17/96	56.2
Nitrate/Nitrogen	5388	2614	48.5	84	89.4	64.1	05/16/33-06/17/96	85.4
Phosphate/Phosphorus	2514	1372	54.6	70	74.5	35.9	04/15/59-06/17/96	67.6
Chlorophyll	474	432	91.1	6	6.4	79.0	07/28/69-12/06/95	18.0
Sulfates/Total Dissolved Solids/Hardness	2526	763	30.2	69	73.4	36.6	05/16/33-06/17/96	40.0
Bacteria	2271	679	29.9	36	38.3	63.1	09/18/46-06/17/96	45.6
Toxic Elements	4964	1933	38.9	42	44.7	118.2	04/15/59-06/17/96	133.5

Water Quality Observations
Outside STORET Edit Criteria for HAFE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
HAFE0026	00403	PH, LAB, STANDARD UNITS SU	940324	1111	0.0000000	21VASWCB	1APIA001.80	X
HAFE0026	00927	MAGNESIUM, TOTAL (MG/L AS MG)	930202	1241	3130.0000000	21VASWCB	1APIA001.80	
HAFE0036	00310	BOD, 5 DAY, 20 DEG C MG/L	730925		24000.0000000	31POTOMA	552028	X
HAFE0036	00400	PH (STANDARD UNITS)	731204	0855	203.0000000	31POTOMA	552028	X
HAFE0052	32230	CHLOROPHYLL A (MG/L)	870402	0850	0.5300000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	870506	0800	0.5700000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	870616	0800	1.2100000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	870719	0800	0.9500000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	870812	0800	0.6100000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	880627	0708	3.2000000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	880726	0750	2.5700000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	880824	0800	0.7950000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	890507	0800	0.8720000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	890710	0704	0.5030000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	900417	1300	1.5200000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	900514	1300	0.7500000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	900628	1300	1.5100000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	900710	1300	1.8900000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	900807	1300	3.6600000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	910410	0745	0.5500000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	910507	0800	0.8400000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	910604	0702	0.6600000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	910710	0648	0.5200000	21WV7IWQ	550471	
HAFE0052	32230	CHLOROPHYLL A (MG/L)	940622	1045	0.5580000	21WV7IWQ	550471	
HAFE0052	32232	CHLOROPHYLL C (MG/L)	900807	1300	0.4100000	21WV7IWQ	550471	
HAFE0072	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	890103	0915	40.0000000	112WRD	01636500	X
HAFE0072	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	851106	1610	1600.0000000	112WRD	01636500	
HAFE0076	00310	BOD, 5 DAY, 20 DEG C MG/L	540804	1205	183.0000000	21WV7IWQ	550928	
HAFE0078	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	821117	1335	60.7000000	21MDOEP	POT1830	
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800407	1140	4.8000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800407	1140	4.8000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800505	1230	3.3000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800505	1230	3.3000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800609	1120	7.8000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800609	1120	7.8000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800717	1215	5.4400000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800717	1215	5.4400000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800825	1310	18.1200000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	800825	1310	18.1200000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	801020	1225	48.7500000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	801020	1225	48.7500000	21MDOEP	POT1830	X

Water Quality Observations
Outside STORET Edit Criteria for HAFE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
HAFE0078	32230	CHLOROPHYLL A (MG/L)	801202	1220	3.0700000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	801202	1220	3.0700000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810303	1450	10.3500000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810408	1410	28.5000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810504	1445	23.7000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810602	1035	5.1700000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810707	1235	5.9600000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810817	1455	22.8000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	810901	1230	12.6300000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	811020	1200	46.6500000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	811118	1130	3.5000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820217	1145	1.9900000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820315	1250	4.3500000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820413	1000	1.4000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820503	0935	12.3700000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820616	1245	4.7800000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820714	1215	10.8000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820810	0950	16.5900000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	820929	0950	12.9900000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	821027	1010	3.8100000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	821117	1335	2.4000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	821207	0940	2.9700000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	830309	0948	5.8200000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	830406	0910	5.0400000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	830608	0930	27.9600000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	830705	0915	10.6200000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	830914	0910	10.3500000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	831115	1005	2.7900000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	831212	1000	3.0200000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	840222	0930	0.6700000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	840314	1020	0.7200000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	840411	0950	2.6000000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	840507	0910	2.7500000	21MDOEP	POT1830	X
HAFE0078	32230	CHLOROPHYLL A (MG/L)	840613	0920	17.3700000	21MDOEP	POT1830	X
HAFE0080	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	851106	1300	3500.0000000	112WRD	01618000	

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) HAFETABS.ZIP

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

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

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

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

(d) HAFEOV0.DOC - Overview of park and retrieved data.

(e) HAFEOV1.DOC - Station period of record table.

(f) HAFEOV2.DOC - Parameter period of record table.

(g) HAFEOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) HAFEBAD.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 HAFEOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\HAFEOV1.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) HAFEFIGS.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 HAFE0001. 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 HAFE0001) 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) HAFEPARM.ZIP

This file compresses HAFEPARM.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) HAFESITE.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) HAFEWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) HAFEDAMS.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) HAFEMISC.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) HAFEEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) HAFEWQ - 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 (HAFEWQA, HAFEWQB, HAFEWQC, etc.) and the index map name will end with an ampersand (&).

(g) HAFEIDG - 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 (HAFEIDGA, HAFEIDGB, HAFEIDGC, 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) HAFESEHY - 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 HAFEFIGS.ZIP and HAFETABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in HAFEMISC.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) HAFERF3.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) HAFEWQMW.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: HAFEPARM.DBF in HAFEPARM.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: HAFEPARM.DBF in HAFEPARM.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: HAFEPARM.DBF in HAFEPARM.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: HAFEWQ.DBF in HAFESITE.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: HAFEWQ.DBF in HAFESITE.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: HAFEIFD.DBF in HAFESITE.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: HAFEIFD.DBF in HAFESITE.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: HAFEIFD.DBF in HAFESITE.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: HAFEDRIN.DBF in HAFESITE.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: HAFEDRIN.DBF in HAFESITE.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: HAFEDRIN.DBF in HAFESITE.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: HAFEGAGE.DBF in HAFESITE.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: HAFEGAGE.DBF in HAFESITE.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: HAFEDAMS.DBF in HAFESITE.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: HAFEDAMS.DBF in HAFESITE.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: HAFEDAMS.DBF in HAFESITE.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: HAFEDAMS.DBF in HAFESITE.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 HAFERF3.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 HAFERF3.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 HAFERF3.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 HAFERF3.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 HAFERF3.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 HAFERF3.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		20[c]			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20[c]			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20[c]			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020[c]			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20[c]			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0[n]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0[n]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0[n]		1000[b]	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0[n]		1000[b]	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, 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		250[s]			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20[c]			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18+	1300[a]	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400[+]	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120[+]	5000[s]	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000[*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120[+]	5000[s]	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82[+]	15[a]	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9[+]	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50[t]	TURBIDITY, FIELD	NTU	Physical
	82079				50[t]	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

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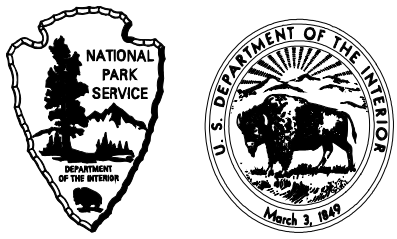
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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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