Baseline Water Quality Data

Inventory and Analysis

Friendship Hill National Historic Site



Water Resources Division and Servicewide Inventory and Monitoring Program

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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

FRIENDSHIP HILL NATIONAL HISTORIC SITE

National Park Service
Water Resources Division
Fort Collins, CO 80525

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EXECUTIVE SUMMARY

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

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located 51 industrial/municipal dischargers; 18 drinking water intakes; ten active or inactive U. S. Geological Survey (USGS) water gages (including stream and well); and seven water impoundments. The results of the STORET retrieval for the study area yielded 41,307 observations for 575 separate parameters collected by the NPS, USGS, EPA, U.S. Army Corps of Engineers, Pennsylvania Department of Environmental Protection (PDEP), and West Virginia Department of Natural Resources at 113 monitoring stations from 1949 to 1997. Approximately 54 percent of the 41,307 observations collected within the study area were reported by the PDEP from 1950 to 1997. Of the 113 monitoring stations, 14 stations, all monitored by contractors and/or cooperators of the NPS, were located within the park boundary (see Station Period of Record Tabulation). Seven stations within the study area (none within the park boundary) were established but contained no data.

Many of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Eighteen stations within the study area (three within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longer-term records within the park boundary are: (1) Ice Pond Run Downstream from State Highway 166 (FRHI 0069); (2) Ice Pond Run Downstream from Bureau of Mines Wetland (FRHI 0076); and (3) Primary Mine Drainage to Ice Pond Run (FRHI 0054). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Dunkard Creek-LR30130 Bridge near Bobtown, PA (off State Road 2011) (FRHI 0096); (2) Monongahela River at Lock & Dam No. 8 at Point Marion, PA (FRHI 0045); (3) Monongahela River at Gauging Station above Lock & Dam No. 7 (FRHI 0057); (4) Monongahela River Mile 85.1 (FRHI 0060); (5) Monongahela River at Lock & Dam No. 8 at Point Marion, PA (FRHI 0043); (6) Monongahela River Mile 90.9 (FRHI 0046); and (7) Cheat River-SR0119 Bridge at Point Marion, PA (FRHI 0035)[†].

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

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

the exceeded criteria in this report. The results of the FRHI 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, copper, lead, zinc, and phenanthrene exceeded their respective EPA criteria for the protection of freshwater aquatic life. Chloride, cyanide, fluoride, sulfate, nitrate, nitrite plus nitrate, antimony, beryllium, cadmium, lead, nickel, and carbon tetrachloride exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 1,440 times at 33 monitoring stations from 1962 to 1997. Nine observations at two stations, in Lake Lynn Reservoir (FRHI 0011) and Dunkard Creek near Bobtown, PA (FRHI 0096), were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of aquatic life. Seven of the nine observations exceeding the criterion were reported in Dunkard Creek near Bobtown, PA (FRHI 0096) from 1962 through 1972.

The pH was measured 3,196 times at 80 monitoring stations from 1949 to 1997. Of the 3,159 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 1,819 observations at 53 stations were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). All 1,819 observations were less than or equal to pH 6.5. Approximately 57 percent of the observations outside the criteria, ranging from pH 2.8 to pH 6.5, were reported from 19 stations in the Monongahela River from 1950 to 1997. One-hundred-eleven of the observations outside the criteria, ranging from pH 2.5 to pH 3.17, were reported from seven stations within the park boundary (FRHI 0054, FRHI 0055, FRHI 0069, FRHI 0071, FRHI 0074, FRHI 0076, FRHI 0080) from 1983 through 1994. The lowest reported pH was 2.09 SU at Secondary Mine Drainage to Ice Pond Run (FRHI 0059) in October 1991.

Turbidity was measured 663 times at 18 monitoring stations from 1962 through 1992. Forty-eight observations at nine stations, in the Monongahela River (FRHI 0041, FRHI 0043, FRHI 0045, FRHI 0046, FRHI 0051, FRHI 0057, FRHI 0060) and Dunkard Creek (FRHI 0092, FRHI 0096), equaled or exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU). Approximately 58 percent of the observations exceeding the criterion were reported from seven stations in the Monongahela River (FRHI 0041, FRHI 0043, FRHI 0045, FRHI 0046, FRHI 0051, FRHI 0057, FRHI 0060) from 1963 through 1986. The highest reported concentration was 480 JTU in Dunkard Creek near Bobtown, PA (FRHI 0096) in March 1964.

Total coliform concentrations were measured 127 times at five monitoring stations (FRHI 0018, FRHI 0028, FRHI 0043, FRHI 0057, FRHI 0096) from 1962 through 1977. Of the 126 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 12 observations at four stations, in the Monongahela River (FRHI 0043, FRHI 0057), Dunkard Creek (FRHI 0096), and Cheat River (FRHI 0028), equaled or exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1962 through 1973. The highest reported value was 28,500 MPN/100 ml in Dunkard Creek near Bobtown, PA (FRHI 0096) in July 1969. Fecal coliform concentrations were determined 476 times at 12 monitoring stations from 1965 to 1997. Of the 475 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 203 observations at seven stations, in the Monongahela River (FRHI 0043, FRHI 0045, FRHI 0057), Dunkard Creek (FRHI 0096), Morgan's Run (FRHI 0007), Birch Hollow (FRHI 0009), and Cheat River (FRHI 0021), equaled or exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml. Approximately 63 percent of the observations exceeding the criterion were reported from three stations in the Monongahela River (FRHI 0043, FRHI 0045, FRHI 0057) from 1971 through 1987. The highest value of at least 20,000 CFU/100 ml was reported twice in the Monongahela River at Lock & Dam No. 8 at Point Marion, PA (FRHI 0045) in August and October, 1984; once in the Monongahela River above Lock & Dam No. 7 (FRHI 0057) in August 1984; and once in Dunkard Creek near Bobtown, PA (FRHI 0096) in July 1984.

Total chloride concentrations were measured 878 times at 42 monitoring stations from 1949 to 1997. Of the 803 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), one

observation of 350 mg/L in Dunkard Creek near Bobtown, PA (FRHI 0096) exceeded the secondary drinking water criterion of 250 mg/L in August 1979.

Total residual chlorine concentrations were measured ten times at three monitoring stations (FRHI 0045, FRHI 0057, FRHI 0096) from 1979 through 1984. One observation of 12 mg/L in the Monongahela River above Lock & Dam No. 7 (FRHI 0057) exceeded the acute freshwater criterion of 0.019 mg/L in November 1984.

Cyanide concentrations (including free in water and wastewaters and total) were measured 192 times at five monitoring stations in the Monongahela River (FRHI 0043, FRHI 0045, FRHI 0057, FRHI 0058, FRHI 0086) from 1973 through 1988. Of the 191 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide to Water Quality Results for explanation), 28 observations at three stations (FRHI 0045, FRHI 0057, FRHI 0058) exceeded the acute freshwater criterion of 22 micrograms per liter (µg/L) from 1976 through 1985. Five of these 28 observations, reported in the Monongahela River at Lock & Dam No. 8 at Point Marion, PA (FRHI 0045), also exceeded the drinking water criterion of 0.2 mg/L in 1982, including the highest value of 840 µg/L in July 1982.

Fluoride concentrations (including dissolved and total) were measured 477 times at 31 monitoring stations from 1949 to 1997. Of the 402 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), one total concentration of 12 mg/L in the Monongahela River above Lock & Dam No. 7 (FRHI 0057) exceeded the drinking water criterion of 4 mg/L in May 1977.

Sulfate concentrations (including dissolved and total) were measured 1,556 times at 57 monitoring stations from 1949 to 1997. Of the 1,481 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 420 observations at 35 stations equaled or exceeded the secondary drinking water criterion of 250 mg/L. Seventy-six of the observations exceeding the criterion, ranging from 621 mg/L to 2,860 mg/L, were reported from seven stations within the park boundary (FRHI 0054, FRHI 0055, FRHI 0069, FRHI 0071, FRHI 0074, FRHI 0076, FRHI 0080) from 1983 through 1996. The highest reported concentration was 5,800 mg/L at a spring near Mapletown, PA (FRHI 0100) in August 1981.

Nitrate concentrations (including dissolved and total as N, and dissolved as NO_3) were measured 1,040 times at 17 monitoring stations from 1949 to 1997. Of the 1,000 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), one total observation of 10.03 mg/L in the Monongahela River above Lock & Dam No. 7 (FRHI 0057) exceeded the drinking water criterion of 10 mg/L for nitrate as N in September 1976.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 225 times at 37 monitoring stations from 1973 to 1997. One concentration of 15 mg/L in Dunkard Creek at Shannopin, PA (FRHI 0092) exceeded the drinking water criterion of 10 mg/L in August 1981.

Antimony concentrations (including dissolved and total) were measured 73 times at 11 monitoring stations from 1983 through 1996. Of the 70 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), one total concentration of 200 µg/L in the Monongahela River below Lock & Dam No. 7 (FRHI 0051) exceeded the drinking water criterion of 6.0 µg/L and the acute freshwater criterion of 88 µg/L in July 1984.

Beryllium concentrations (including dissolved and total) were measured 82 times at 11 monitoring stations from 1983 through 1996. Five dissolved observations at four stations in the area of Ice Pond Run (FRHI 0054, FRHI 0059, FRHI 0069, FRHI 0076) exceeded the drinking water criterion of 4.0 µg/L during 1993 and 1994. Four of the observations exceeding the criterion, ranging from 10 mg/L to 20 mg/L, were reported from three stations within the park boundary (FRHI 0054, FRHI 0069, FRHI 0076). The highest reported concentration was 30 µg/L at Secondary Mine Drainage to Ice Pond Run (FRHI 0059) in July 1993.

Cadmium concentrations (including dissolved and total) were measured 121 times at 26 monitoring stations from 1972 through 1996. Of the 106 observations used in the criteria analysis (see the Composite Type Screen in the

Methodology and the EPA Water Quality Criteria Analysis for Station in the Interpretive Guide to Water Quality Results for explanation), nine observations at five stations, in Dunkard Creek (FRHI 0096), the Monongahela River (FRHI 0057), mine drainage to Ice Pond Run (FRHI 0054, FRHI 0059), and Ice Pond Run (FRHI 0069), exceeded the acute freshwater criterion of 3.9 µg/L from 1972 through 1994. Seven of these nine observations also equaled or exceeded the drinking water criterion of 5.0 µg/L. The highest reported concentration was 30 µg/L at Secondary Mine Drainage to Ice Pond Run (FRHI 0059) in July 1993.

Copper concentrations (including dissolved and total) were measured 481 times at 27 monitoring stations from 1972 to 1997. Of the 479 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 73 observations at 15 stations equaled or exceeded the acute freshwater criterion of 18 µg/L. Approximately 70 percent of the observations exceeding the criterion were reported from 1990 to 1997, including the highest concentration of 260 µg/L at Secondary Mine Drainage to Ice Pond Run (FRHI 0059) in February 1993.

Lead concentrations (including dissolved and total) were measured 475 times at 27 monitoring stations from 1972 to 1997. Of the 468 observations used in the criteria analysis (see the Composite Type Screen in the Methodology and the EPA Water Quality Criteria Analysis for Station in the Interpretive Guide to Water Quality Results for explanation), 28 total observations at four stations, in the Cheat River (FRHI 0032, FRHI 0035), Dunkard Creek (FRHI 0096), and the Monongahela River (FRHI 0045), equaled or exceeded the drinking water criterion of 15 µg/L from 1977 through 1996. One of these 28 observations, the highest reported value of 154 µg/L in the Cheat River at the State Route 119 Bridge at Point Marion, PA (FRHI 0035), also exceeded the acute freshwater criterion of 82 µg/L in January 1993. Twenty-four of the 28 observations exceeding the criteria were reported in the Cheat River at the State Route 119 Bridge at Point Marion, PA (FRHI 0035) from 1988 through 1996.

Nickel concentrations (including dissolved and total) were measured 479 times at 27 monitoring stations from 1972 to 1997. Of the 477 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 22 observations at eight stations, in Ice Pond Run (FRHI 0069, FRHI 0071, FRHI 0076), Dunkard Creek (FRHI 0096), mine drainage to Ice Pond Run (FRHI 0054, FRHI 0059), the Cheat River (FRHI 0035), and Monongahela River (FRHI 0060), equaled or exceeded the drinking water criterion of 100 µg/L from 1972 through 1996. Twelve of the 22 observations exceeding the criterion, ranging from 140 µg/L to 590 µg/L, were reported from four stations within the park boundary (FRHI 0054, FRHI 0069, FRHI 0071, FRHI 0076) from 1993 through 1996. The highest reported concentration was 1,210 µg/L in the Cheat River at the State Route 119 Bridge at Point Marion, PA (FRHI 0035) in May 1996.

Zinc concentrations (including dissolved, suspended, and total) were measured 553 times at 45 monitoring stations from 1972 to 1997. Of the 551 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 44 observations at 17 stations exceeded the acute freshwater criterion of 120 µg/L from 1972 through 1996. The highest reported concentration was 1,780 µg/L at Secondary Mine Drainage to Ice Pond Run (FRHI 0059) in February 1993.

Extractable carbon tetrachloride concentrations were measured once in the Monongahela River above Lock & Dam No. 7 (FRHI 0057) in July 1981. The reported concentration of .04 mg/L exceeded the drinking water criterion of .005 mg/L.

Phenanthrene concentrations were measured twice in the Monongahela River near the mouth of the Cheat River (FRHI 0034) in July 1986. The two concentrations, 362 µg/L and 500 µg/L, exceeded the acute freshwater criterion of 30 µg/L.

The IDEA conducted for FRHI indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the group Bacteria, less than 25 percent of the observations were recorded since 1985. For the group Chlorophyll, observations were recorded only during 1973. Relative to other parameter groups, data were limited for the groups Chlorophyll and Bacteria. Data for eight groups (Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Bacteria, and Toxic Elements) were recorded at less than half of the 106 monitoring stations with data. For the group Toxic Elements, approximately 85 percent of the

observations were recorded since 1985. Results for 40 of the 126 EPA priority toxic pollutants (consisting of organic parameters, inorganic parameters, and metals) were retrieved from STORET.

Surface water resources in the FRHI study area include the Monongahela and Cheat Rivers; Dunkard, Georges, and Whiteley Creeks, Ice Pond Run, and many other streams; many large and small reservoirs; many natural ponds; and several springs. The data inventories and analyses contained in this report indicate that surface waters within the study area have been greatly impacted by human activities. Potential anthropogenic sources of contaminants include acid mine drainage from active and abandoned coal mines; gas and oil extraction; industrial and municipal wastewater discharges; stormwater runoff; agricultural activities; recreational use; and atmospheric deposition.

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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.

Mike Matz 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.

Donnie Dustin and Greg Harp helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Brian Verbeck, Robert Flynn, and Dawn Grandbois provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, Mary Beth Talty, Curtis Cooper, Paul McElvery, J. Chris Echohawk, Kristie Maczko, Adam Henson, Shawndra Mawhorter, Lisa Smith, Eric Janney, and Ryan Shy 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.

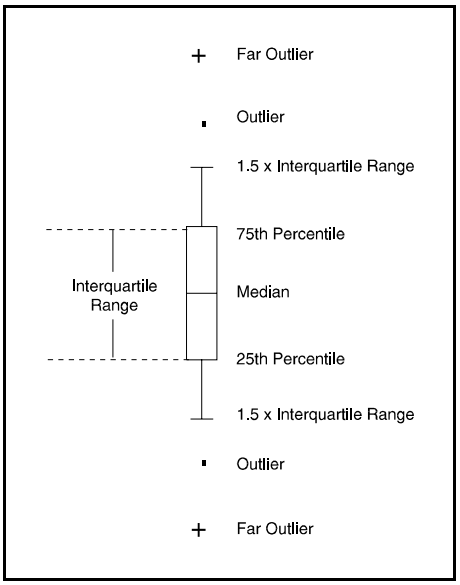
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 FRHI

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:	109841	658
# STORET Stations:	113	14
# Stations With No Data:	7	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	18	3
Date of STORET Retrieval:	11/07/97	11/07/97
Period of Record:	02/07/49-09/03/97	03/09/83-06/07/96
# Parameters Measured:	575	64
# Water Quality Observations:	41307	1382
# Industrial/Municipal Facilities:	51	1
# Drinking Water Intakes:	18	0
# Water Gages:	10	0
# Water Impoundments:	7	0
# Total Plots:	98	0
# Time Series:	36	0
# Annual:	32	0
# Seasonal:	30	0

Hydrologic Definition of Seasons:

1. July 1 - October 31
2. November 1 - March 14
3. March 15 - June 30

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 22 years and at least 136 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 12 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.

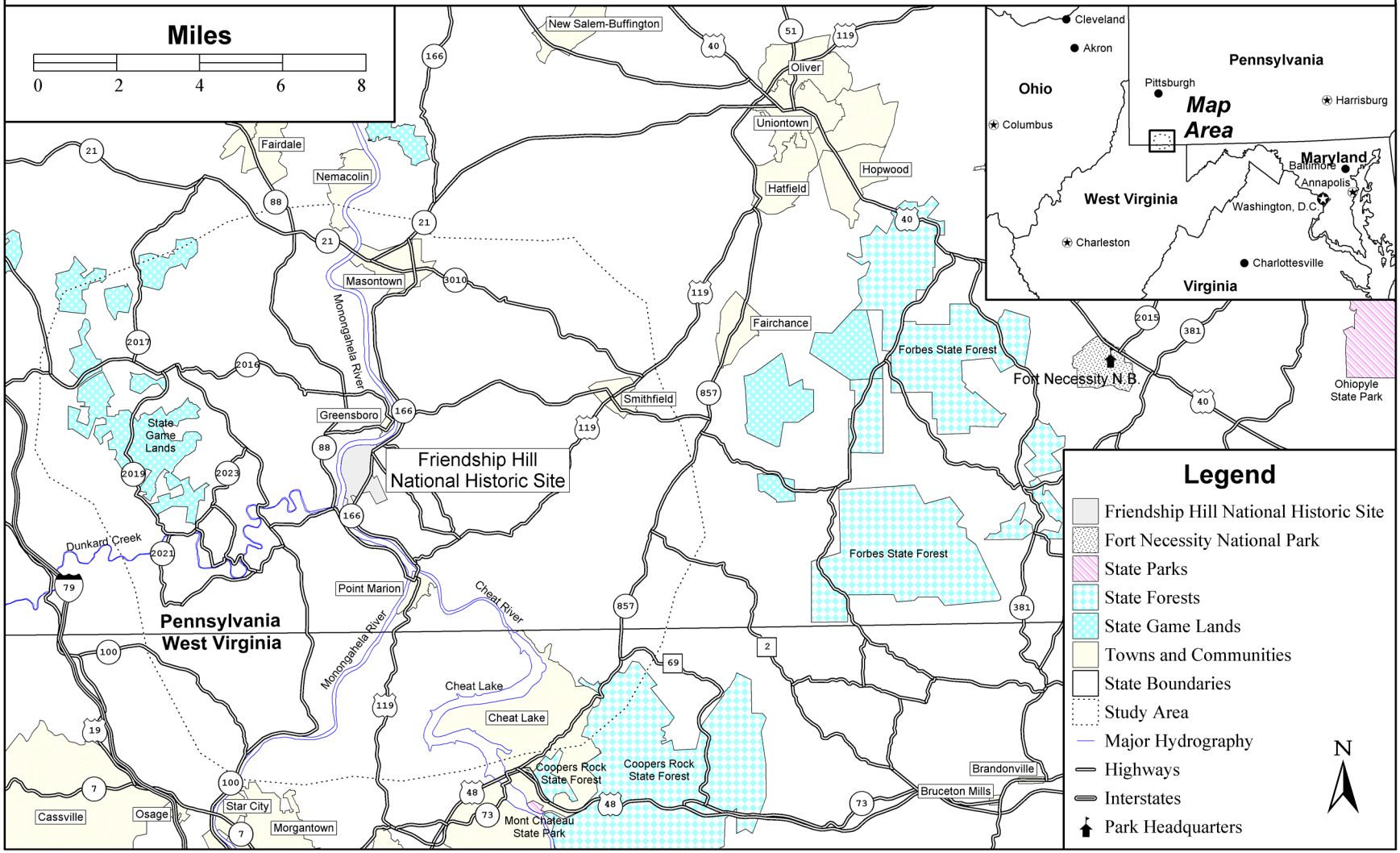
Seasonal Analysis Criteria:

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.

Friendship Hill National Historic Site

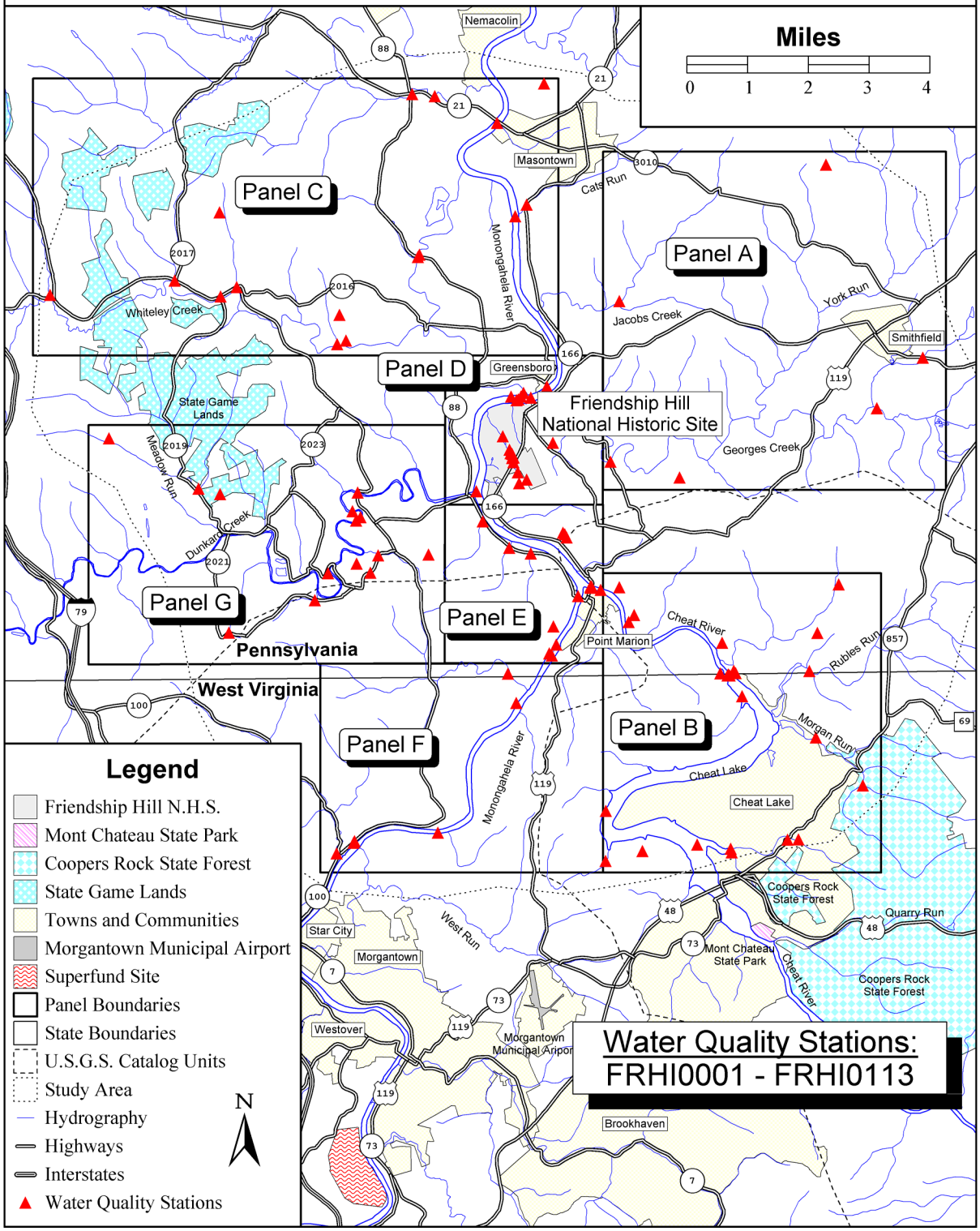
Regional Location Map



Friendship Hill National Historic Site

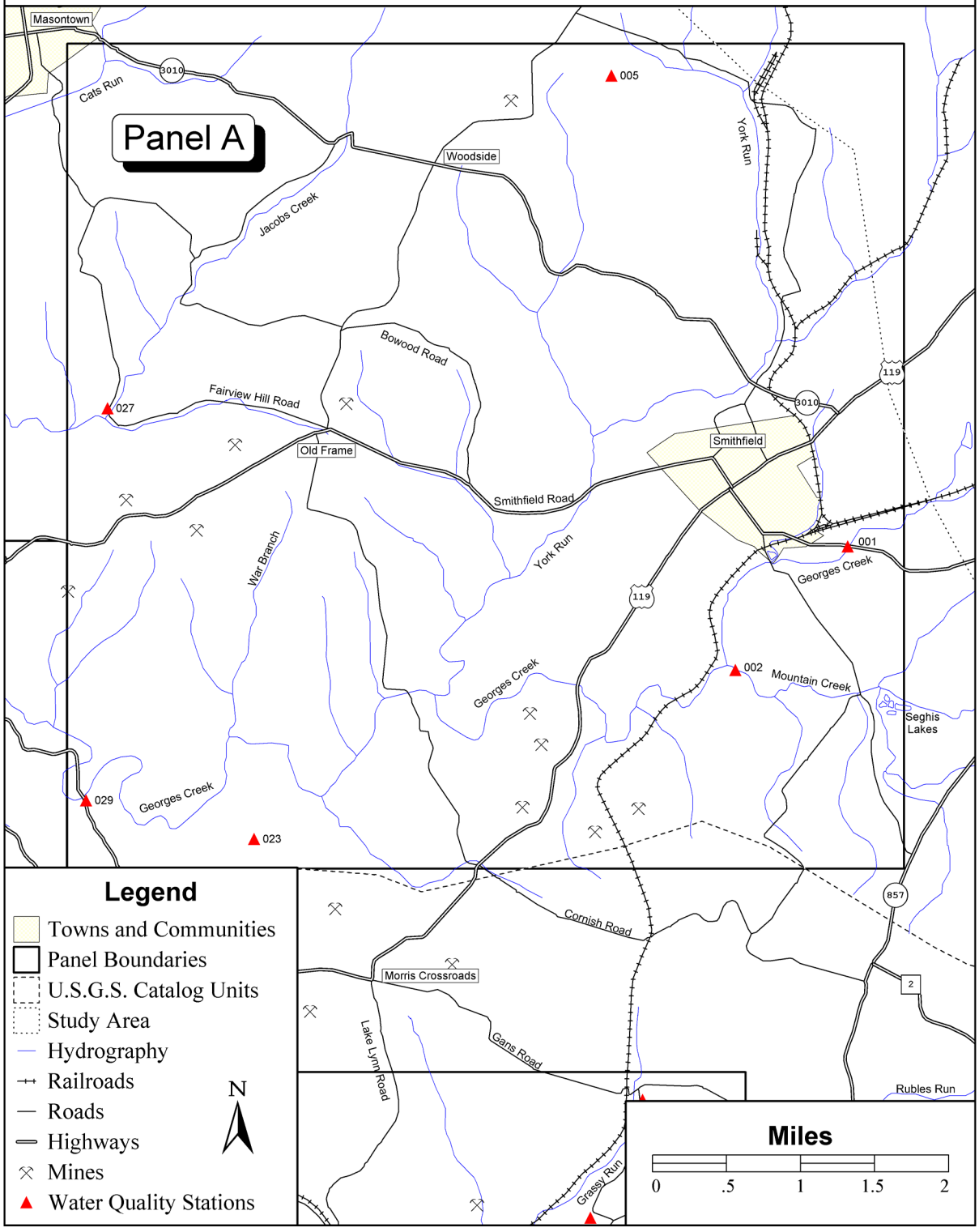
Water Quality Monitoring Locations

Graphic Panel Index



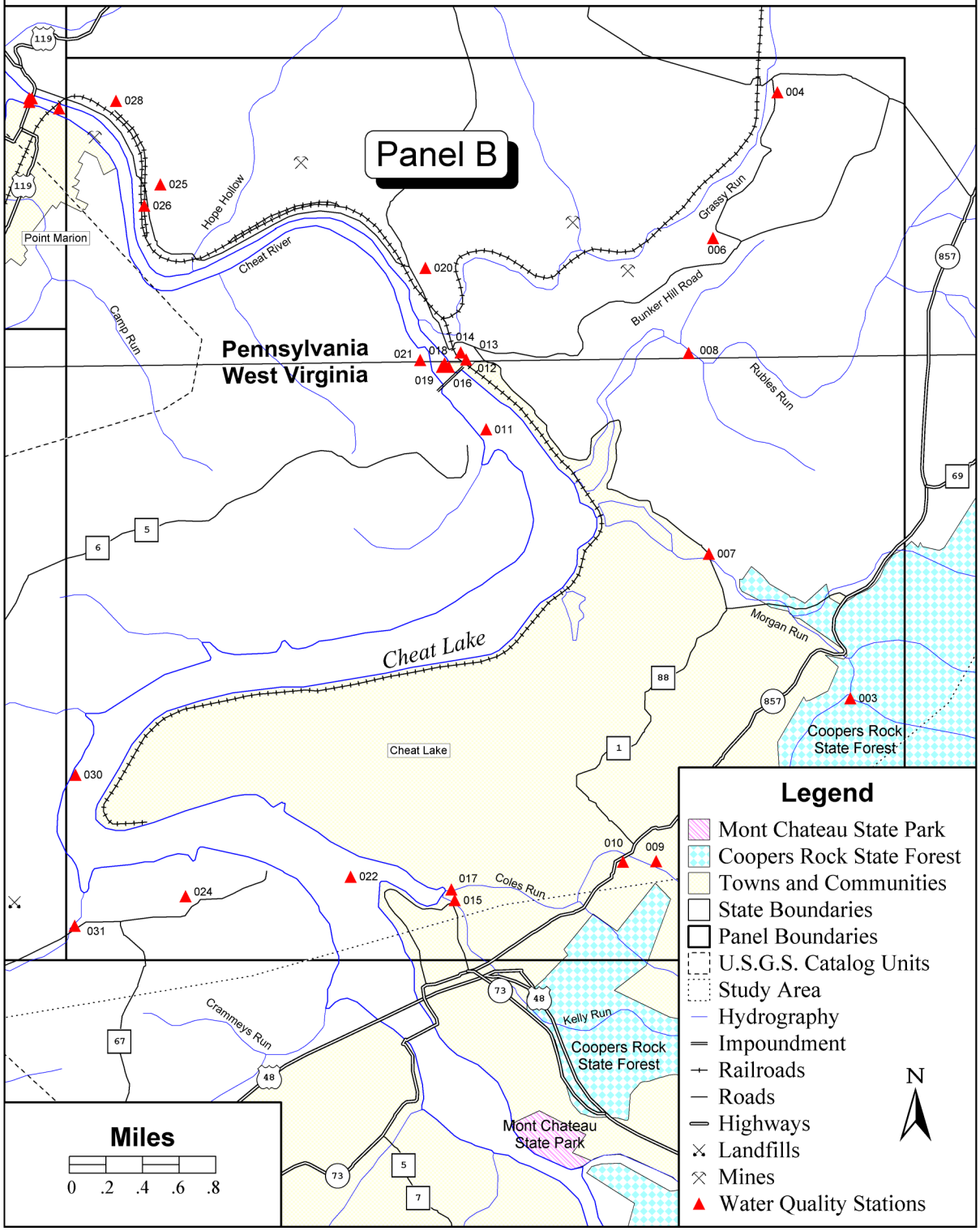
Friendship Hill National Historic Site

Water Quality Monitoring Locations



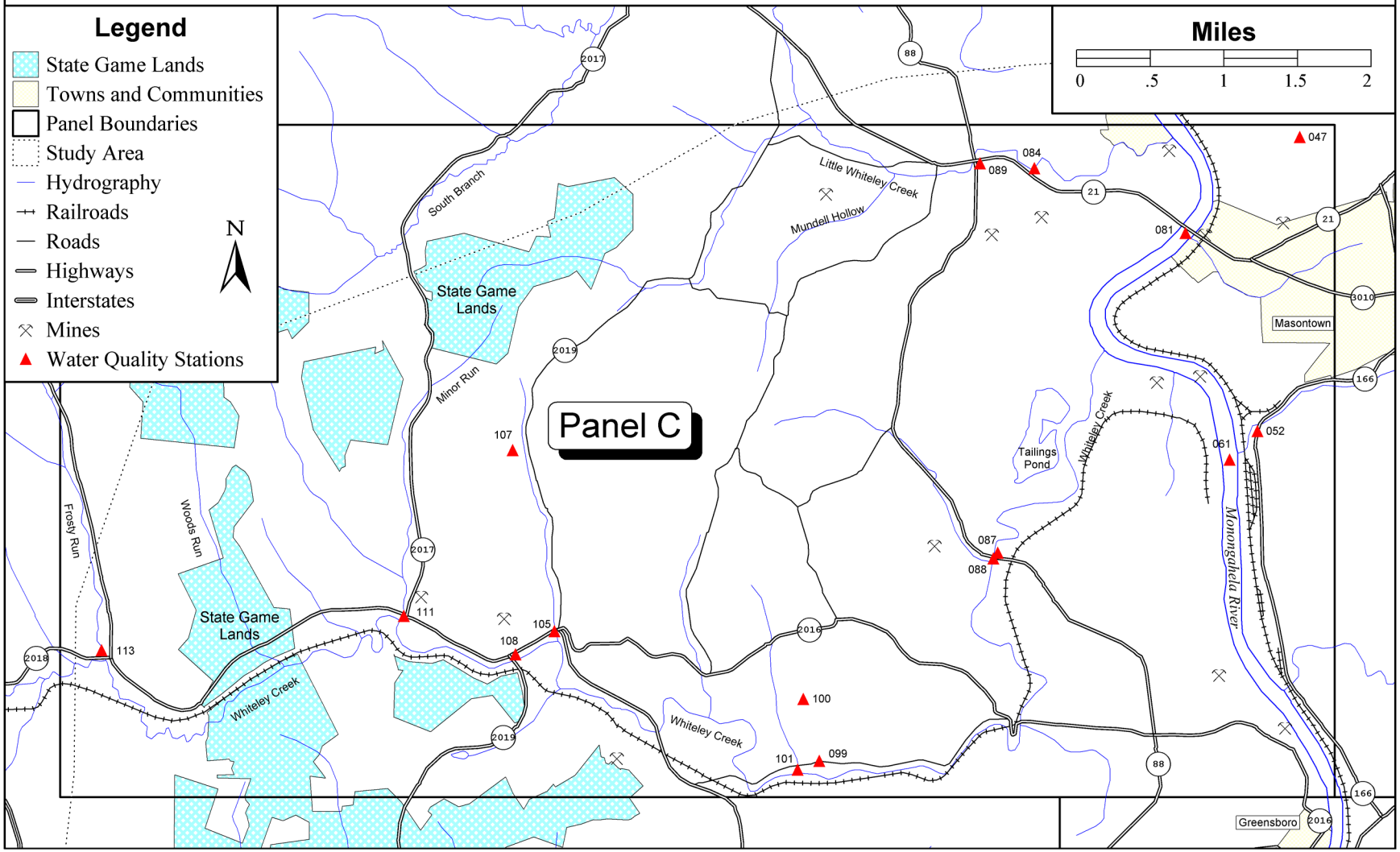
Friendship Hill National Historic Site

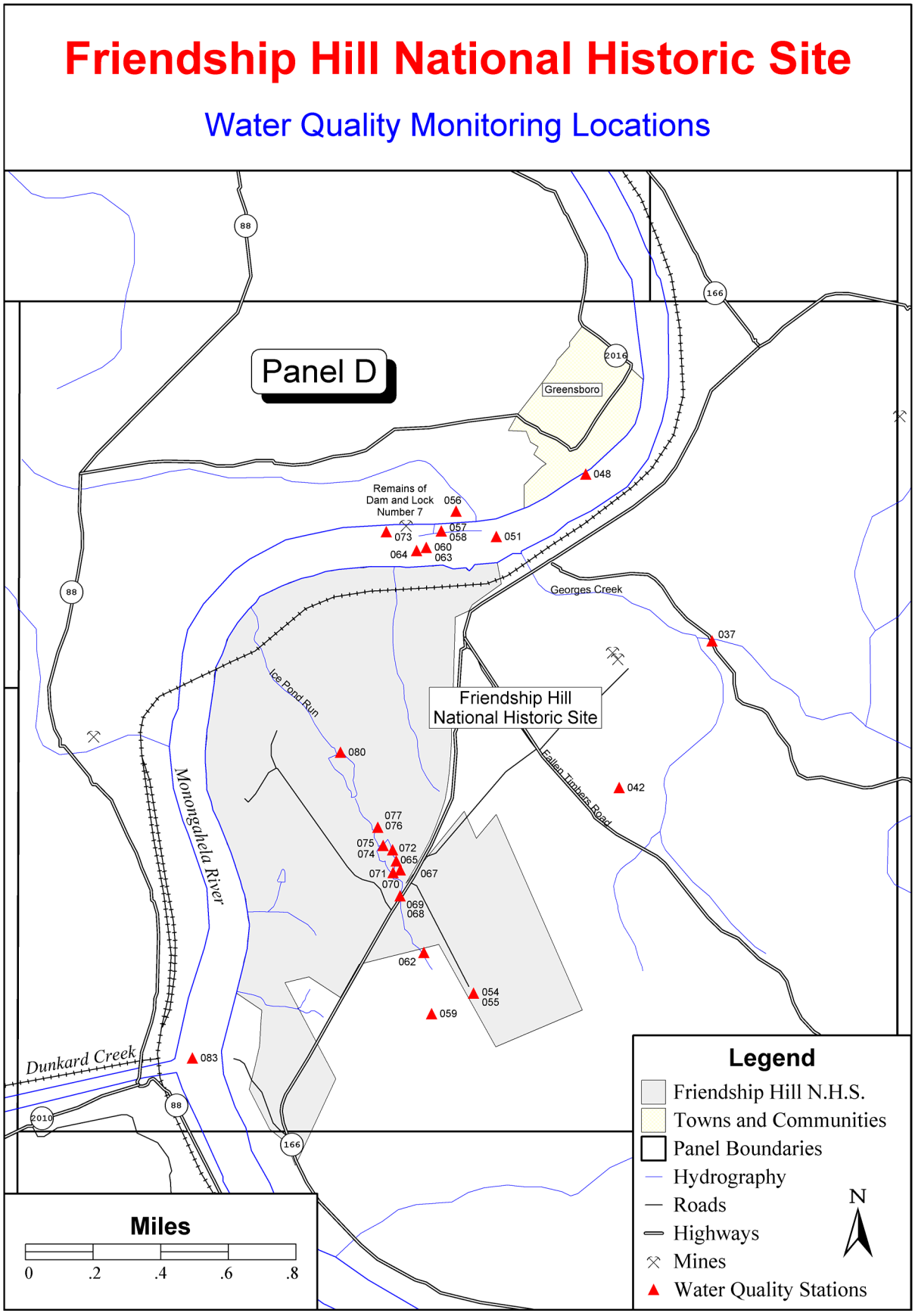
Water Quality Monitoring Locations



Friendship Hill National Historic Site

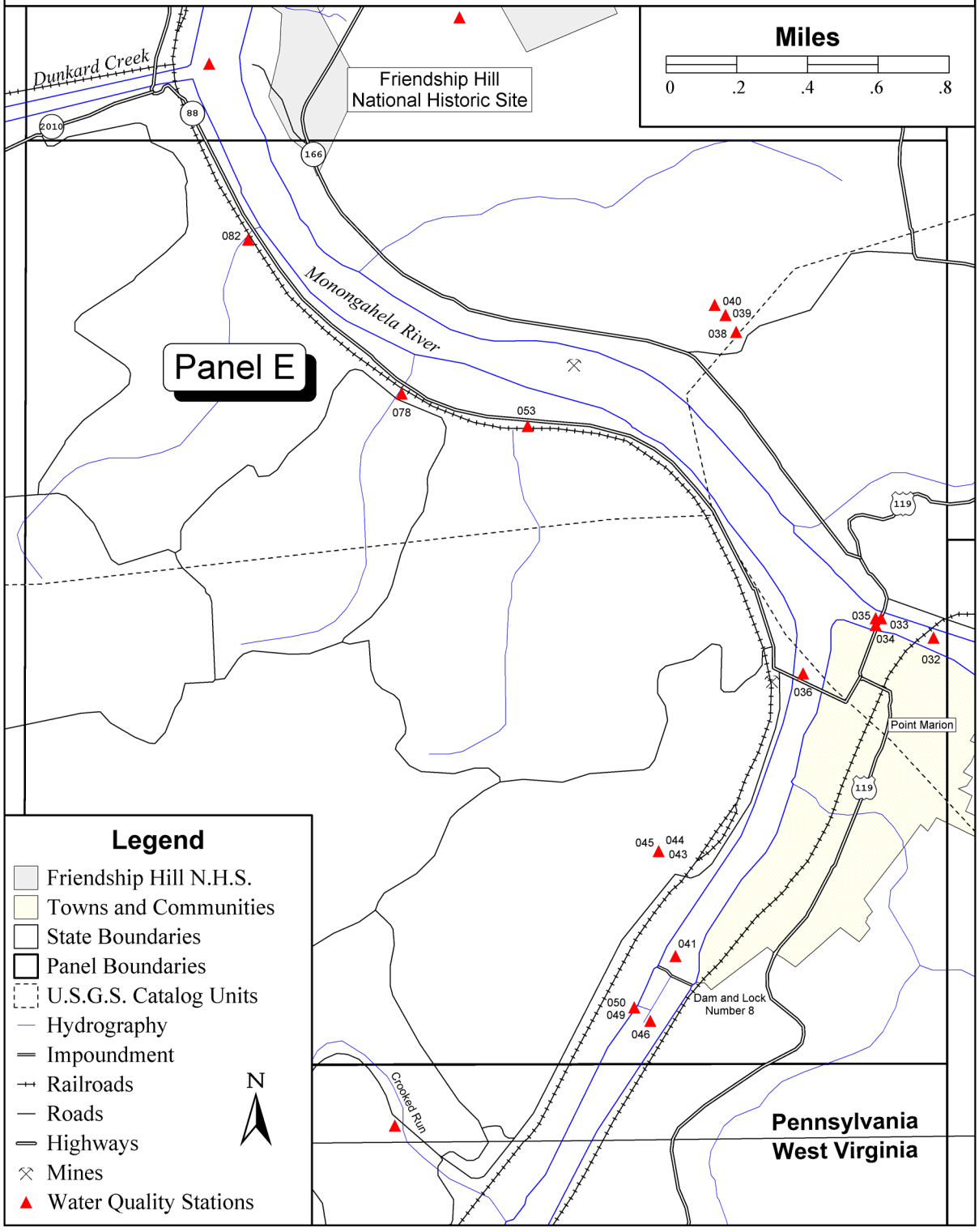
Water Quality Monitoring Locations




Friendship Hill National Historic Site
Water Quality Monitoring Locations
Panel D
Greensboro
Remains of Dam and Lock Number 7
Georges Creek
Ice Pond Run
Friendship Hill National Historic Site
Monongahela River
Fallen Timbers Road
Dunkard Creek
088
056
057
058
073
060
063
064
051
048
037
080
077
076
075
074
072
065
071
070
067
069
068
062
054
055
059
083
Miles
0
.2
.4
.6
.8
Legend
Friendship Hill N.H.S.
Towns and Communities
Panel Boundaries
Hydrography
Roads
Highways
Mines
Water Quality Stations
N

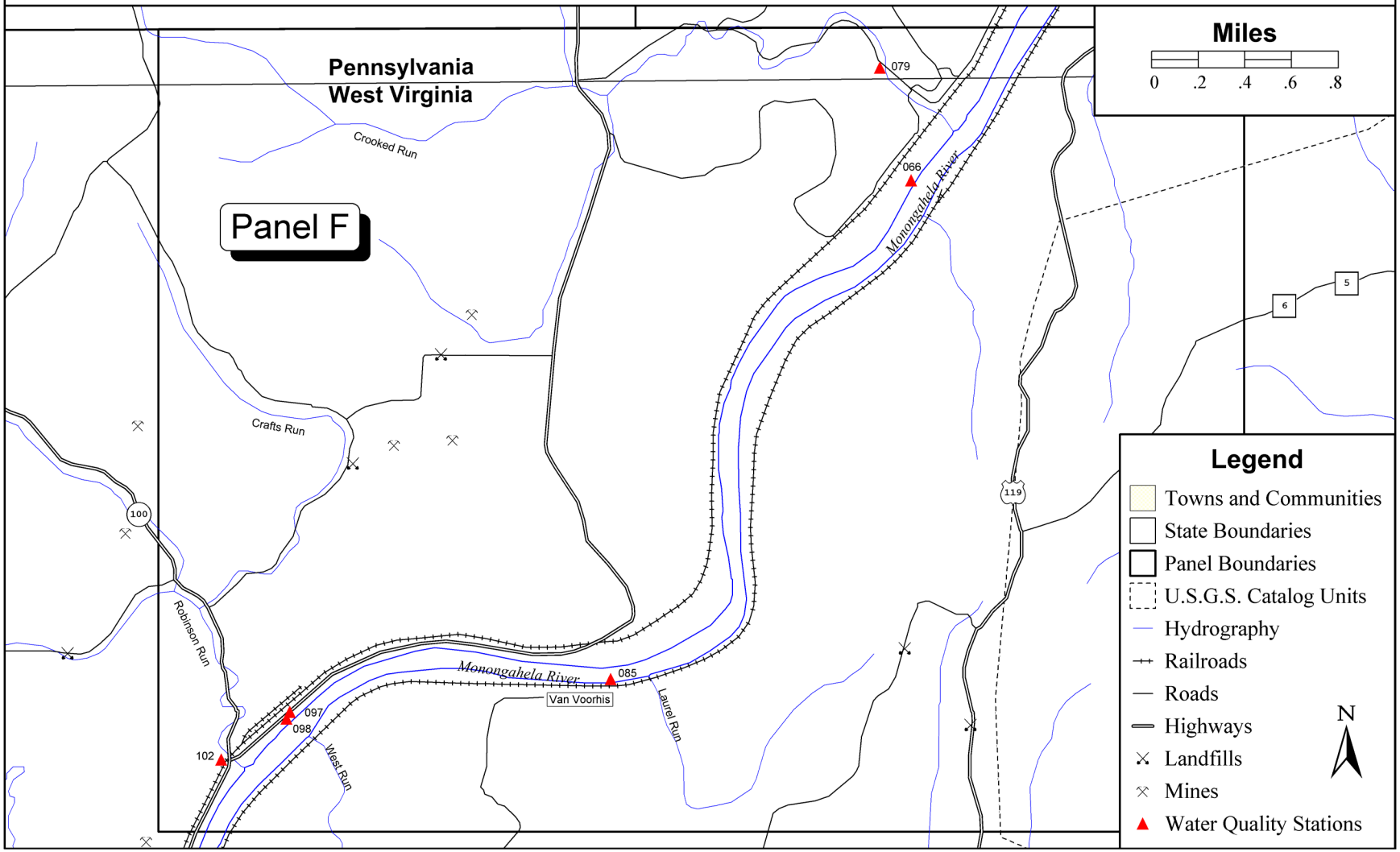
Friendship Hill National Historic Site

Water Quality Monitoring Locations



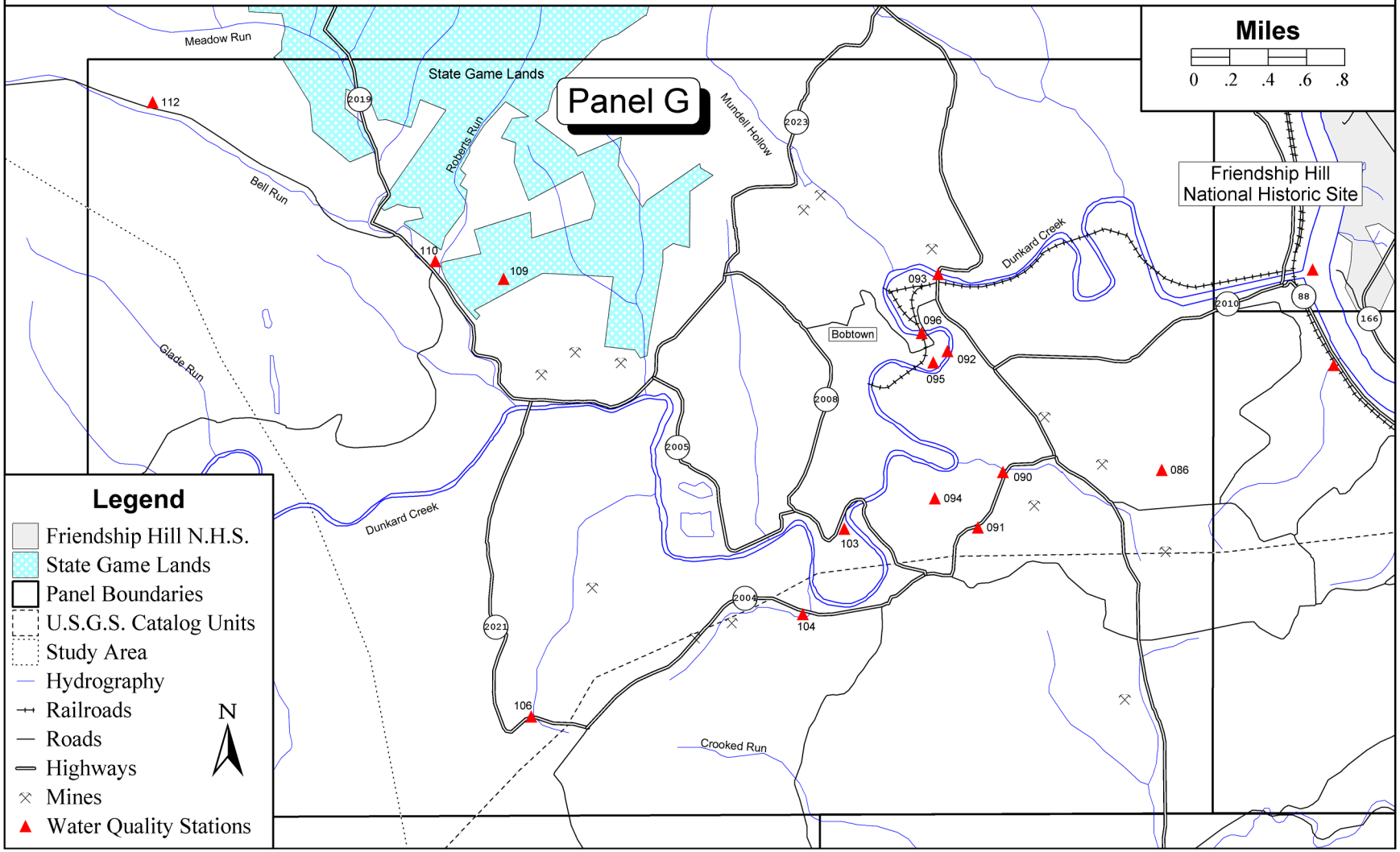
Friendship Hill National Historic Site

Water Quality Monitoring Locations



Friendship Hill National Historic Site

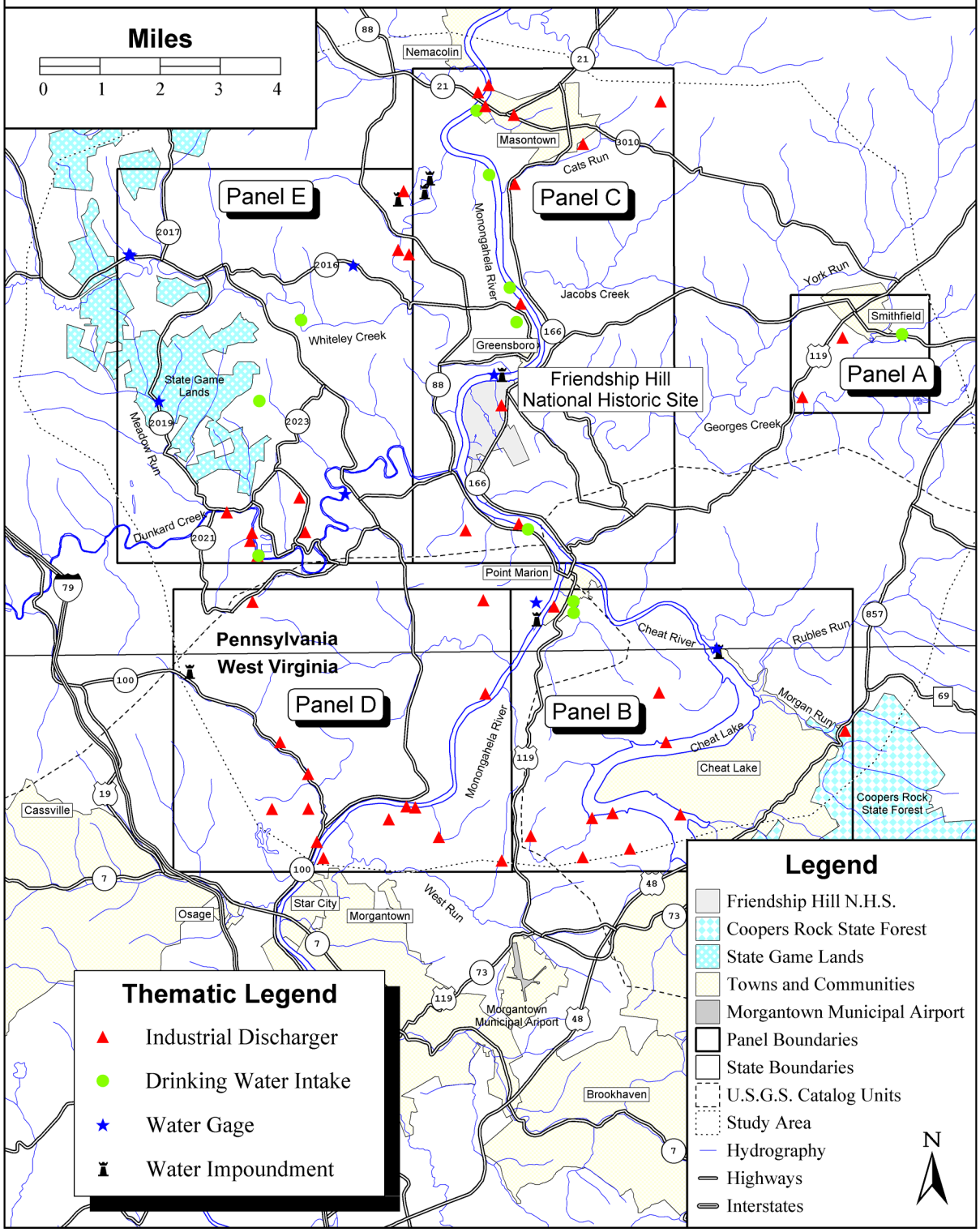
Water Quality Monitoring Locations



Friendship Hill National Historic Site

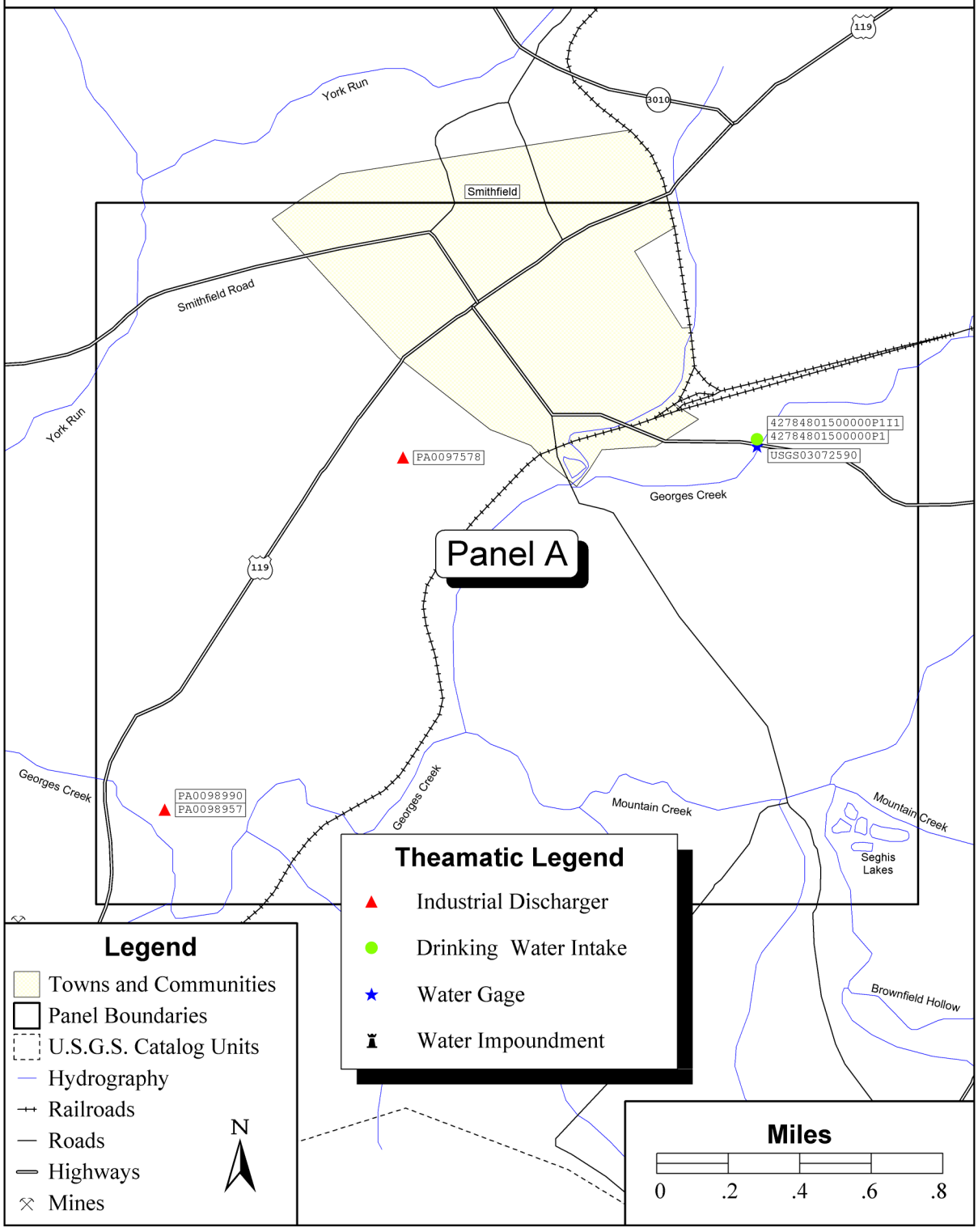
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

Graphic Panel Index



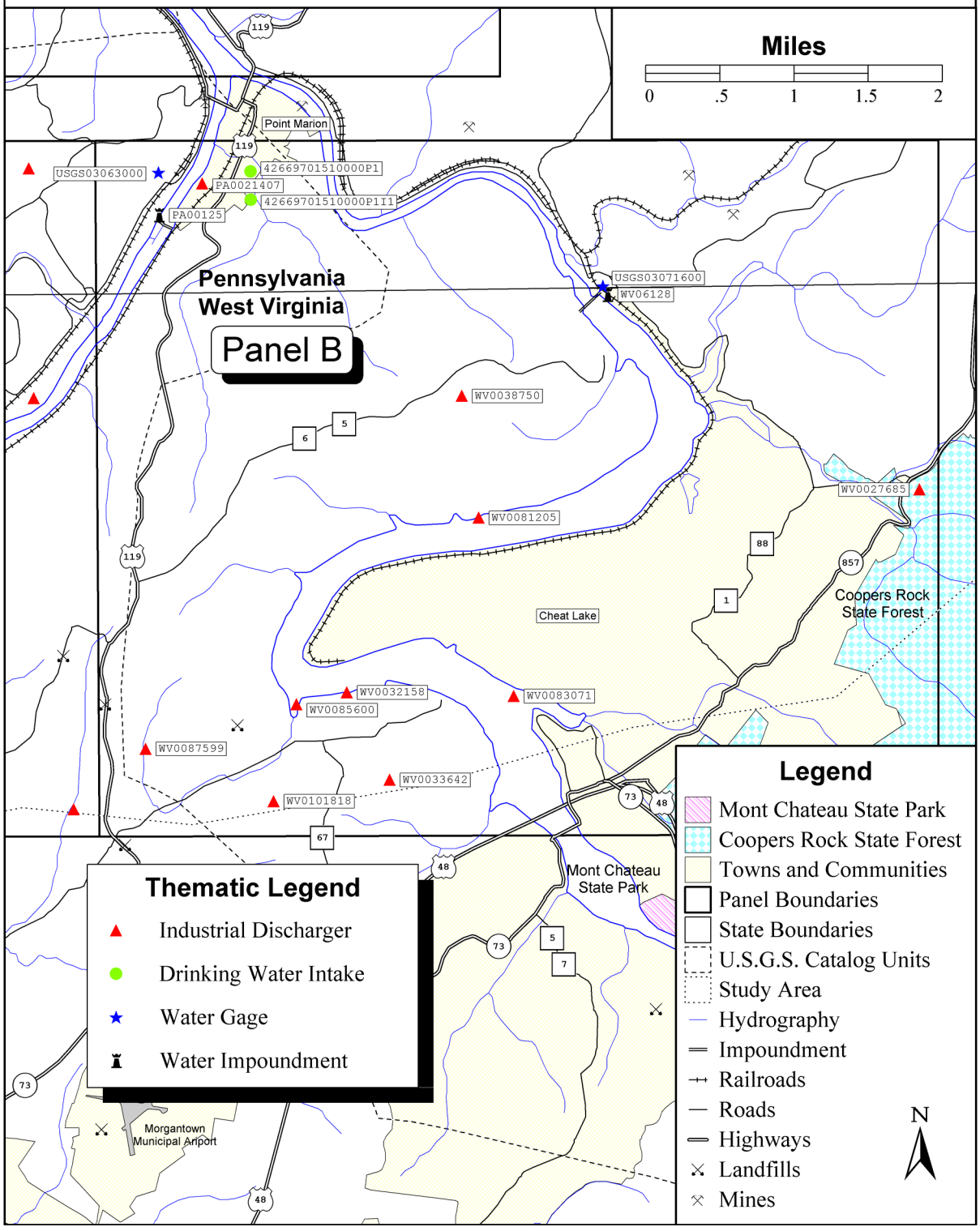
Friendship Hill National Historic Site

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



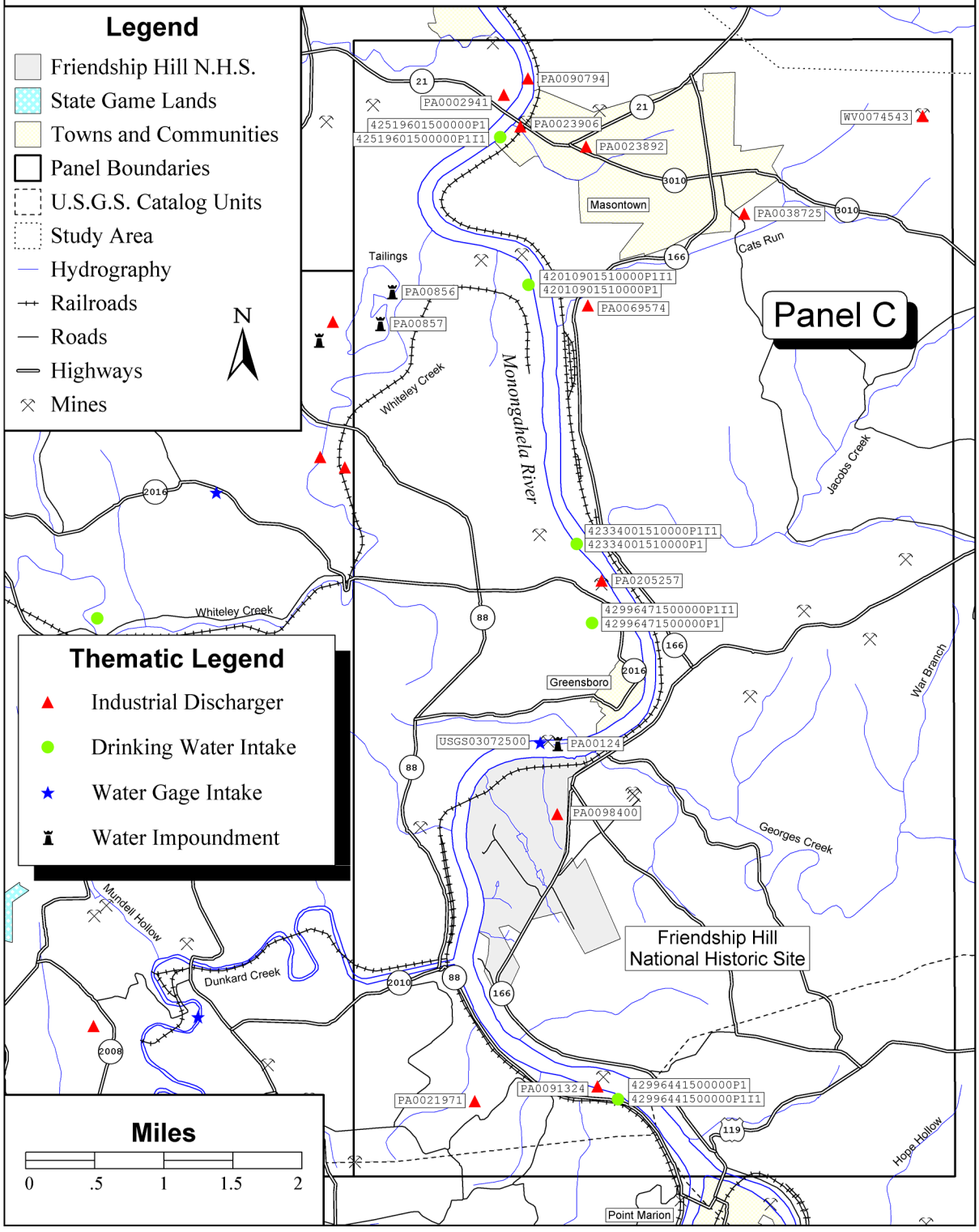
Friendship Hill National Historic Site

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



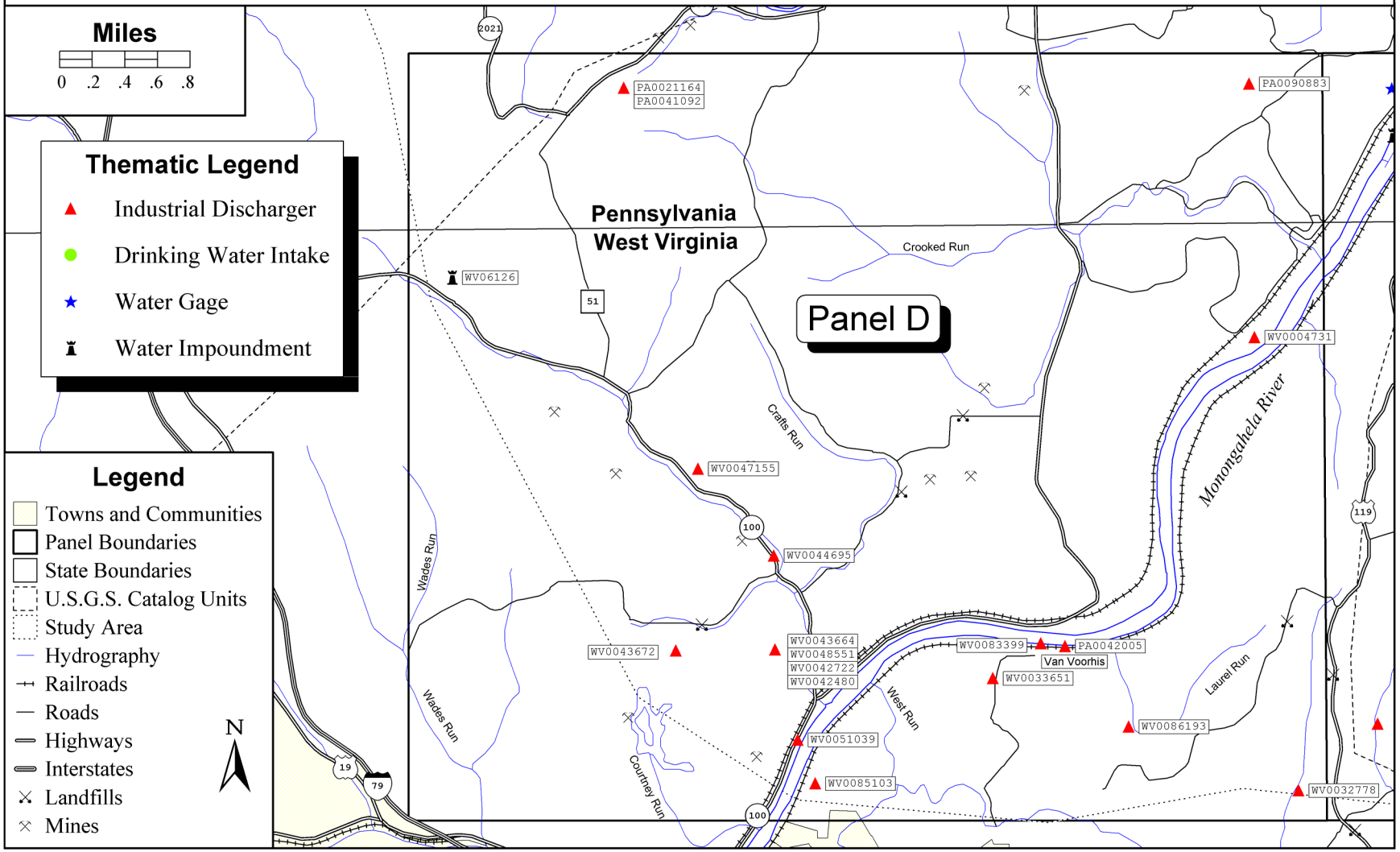
Friendship Hill National Historic Site

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



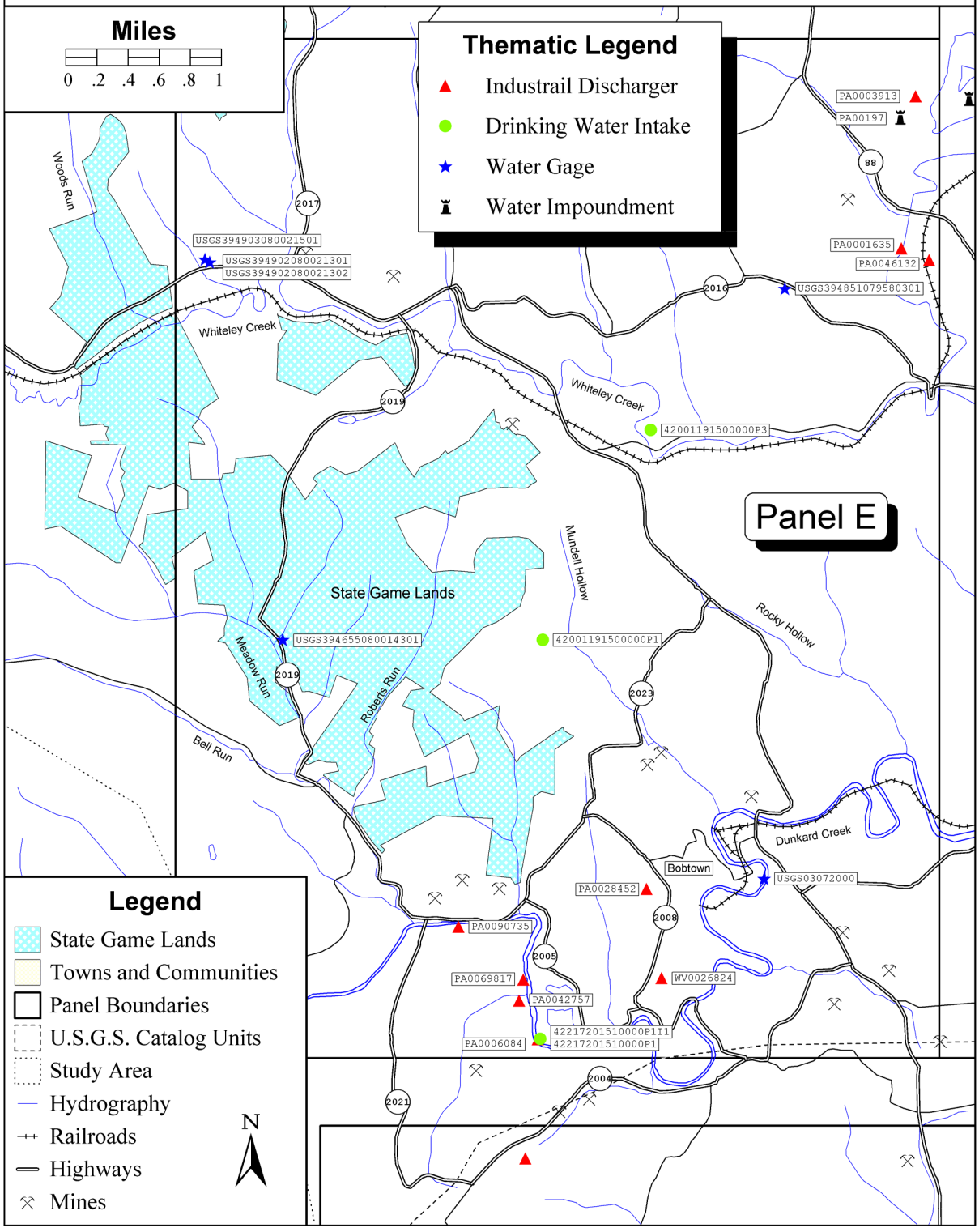
Friendship Hill National Historic Site

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Friendship Hill National Historic Site

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
PA0001635	DUQUESNE LIGHT CO COAL DEPT	435 SIXTH AVE	GREENSBORO	MONONGAHELA RVR
PA0002941	WEST PENN POWER HATFIELD	ATTN: DAVID E. GERVENAK	GREENSBURG,	MONONGAHELA
PA0003913	U S STEEL FRICK DIST MINES	600 GRANT ST	PITTSBURGH	WHITELEY CREEK
PA0006084	VESTA SHANNOPIN COAL DIV SHAN	3 GATEWAY CENTER	PITTSBURGH	DUNKARD CREEK
PA0021164	KING KNOB COAL COMPANY INC	P O BOX 268	CLARKSBURGH	MONONGAHELA RIVER
PA0021407	POINT MARION BOROUGH	P.O.BOX 298	POINT MARION	MONONGAHELA RIVER
PA0021971	EAST DUNKARD WATER ASSOCIATION	.....	DILLINER	MONONGAHELA R
PA0023892	MASONTOWN MUNICIPAL AUTHORITY	.....	MASONTOWN MA	TR TO MONONGAHELA R
PA0023906	MASONTOWN MUNICIPAL AUTHORITY	.....	MASONTOWN MA	BIG RN
PA0028452	DUNKARD BOBTOWN MUNICIPAL AUTH	.....	BOBTOWN	DUNKARD C
PA0038725	REDSTONE TOWNSHIP SEWAGE TREAT	.....	REPUBLIC	TR OF DUNLAP C
PA0041092	US NAT RESOURCES INC TWTLIGHT	.....	DUNKARD TWP	TR TO DUNKARD C
PA0042005	DUNKARD MINING PREP PLANT	.....	DILLINER	MONONGAHELA R
PA0042757	B & M COAL CO MINE #1	.....	DILLINER	DUNKARD C
PA0046132	DUQUESNE LIGHT CO WARWICK MIN	.....	DUNKARD TWP	TR TO DUNKARD C
PA0069574	S.D.S. CONSTRUCTION COMPANY, I	.....	MASONTOWN BORO	TR TO CATS RN
PA0069817	CHESS COAL COMPANY DUNKARD STR	.....	DUNKARD TWP	DUNKARD C
PA0090735	TARGET INDUSTRIES INC.	.....	DUNKARD	DUNKARD C
PA0090794	NEMACOLIN MINES CORP.	.....	NEMACOLIN	MONONGAHELA R
PA0090883	L AND J EQUIPMENT COMPANY	.....	DUNKARD	TR TO CROOKED RN
PA0091324	LEELAND DEVELOPMENT COMPANY	ROUTE 88	DUNKARD	MONONGAHELA R
PA0097578	JARRETT BROTHERS MOBILE HOME P	BOX 73	SMITHFIELD	UT TO GEORGES CREEK
PA0098400	ALBERG GALLATIN AREA SCHOOL DI	R. D. 5, BOX 175	UNIONTOWN	UT MONONGAHELA RIVER
PA0098957	FAYETTE COUINTY HOUSING AUTHOR	624 PITTSBURGH ROAD	UNIONTOWN	TRIBUTARY OF GEORGES CREEK
PA0098990	BEVEVINO & BRICELAND PARTNERSH	155 NAVIGATION STREET	BEAVER	TRIBUTARY OF GEORGES CREEK
PA0205257	GREENSBORO MONONGAHELA TOWNSHI	P JOINT SEWER AUTHORITY	GREENSBORO	MONONGAHELA RIVER
WV0004731	MONONGAHELA POWER COMPANY	BULK POWER SUPPLY	GREENSBURG	M
WV0026824	RON COAL COMPANY	.....	MAIDSVILLE	CRAFTS RN
WV0027685	PRESTON COUNTY COAL & COKE COR	.....	CASCADE	DECKERS C
WV0032158	CANYON PUBLIC SERVICE DISTRICT	.....	CANYON PSD	TR TO CHEAT LAKE
WV0032778	CHARLES DECKER	RT 4 BOX 111	MORGANTOWN	WEST RUN CREEK
WV0033642	JOHN C. SOLOMON	HOTEL MORGAN	MORGANTOWN	CHEAT LAKE
WV0033651	JOHN SOLOMON	HOTEL MORGAN	MORGANTOWN	MONONGAHELIA RIVER
WV0038750	BORTZ COAL CO	.....	.....	TR OF CHEAT R
WV0042480	M & J COAL CO. SMA 2005	.....	MAIDSVILLE	ROBINSON RN
WV0042722	M & J COAL CO. SMA 2005	.....	MAIDSVILLE	ROBINSON RN
WV0043664	M & J COAL COMPANY	RT 7 BOX 505	MAIDSVILLE	ROBINSON RUN/MONONGAHELA RIVER
WV0043672	RON COAL CO W VA #D2028	BOX 216	MAIDSVILLE	ROBINSON RUN/MONONGAHELA RIVER
WV0044695	MAIDSVILLE COAL CO., INC.	.....	MAIDSVILLE	ROBINSON RN
WV0047155	M&J COAL COMPANY SMA 1828	.....	MAIDSVILLE	ROBINSON RN
WV0048551	ELECTRA FUELS, INC.	.....	MAIDSVILLE	ROBINSON RN
WV0051039	CONSOLIDATION COAL COMPANY	1800 WASHINGTON ROAD	MORGANTOWN	MONONGAHELA RIVER
WV0074543	BEVERLY WATER DEPARTMENT	P. O. DRAWER 279	BEVERLY	M 27
WV0081205	JEWISH COMMUNITY CENTER		MORGANTOWN	
WV0083071	CHEAT PROGRESSIVE VENTURES		MORGANTOWN	
WV0083399	BAKER'S RIDGE HOMEOWNERS ASSOC		MORGANTOWN	
WV0085103	MOBILE HOME PARKS AND SALES		MORGANTOWN	
WV0085600	CEDARS OF LEBANON CORP.	101 LAKEVIEW DRIVE	MORGANTOWN	M 2

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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
WV0086193	BRENDA CORBIN	RFD 4, BOX 370A	MORGANTOWN	M
WV0087599	ROBERT BELL	3289 COLLINS FERRY ROAD	MORGANTOWN	M 2
WV0101818	Fred Zara, Jr.	RT. 8, BOX 210A	MORGANTOWN	MC 3

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
42001191500000P1	CHLORINATOR	MEYERSDALE	2500	0000.00
42001191500000P3	CHLORINATOR	MEYERSDALE	2500	0000.00
42010901510000P1	TREATMENT PLANT	ALICIA	100	5000.00
42010901510000P1I1	MONONGAHELA RIV	ALICIA	100	5000.00
42217201510000P1	TREATMENT PLANT	DUNKARD	1280	2000.00
42217201510000P1I1	MONONGAHELA RIV	DUNKARD	1280	2000.00
42334001510000P1	TREATMENT PLANT	GREENSBORO	2000	5000.00
42334001510000P1I1	MONOGAHELA RIV	GREENSBORO	2000	5000.00
42519601500000P1	TREATMENT PLANT	MASONTOWN	6000	0000.00
42519601500000P1I1	MONONGAHELA RIV	MASONTOWN	6000	0000.00
42669701510000P1	TREATMENT PLANT	POINT MARION	1900	0000.00
42669701510000P1I1	CHEAT LAKE	POINT MARION	1900	0000.00
42784801500000P1	TREATMENT PLANT	SMITHFIELD	1300	5000.00
42784801500000P1I1	BARTON HOLLOW R	SMITHFIELD	1300	5000.00
42996441500000P1	TREATMENT PLANT	DILLINER	4480	0000.00
42996441500000P1I1	MONONGAHELA RIV	DILLINER	4480	0000.00
42996471500000P1	TREATMENT PLANT	GREENSBORO	1500	0000.00
42996471500000P1I1	MONONGHELA RIV.	GREENSBORO	1500	0000.00

Water Gages

Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS03063000	MONONGAHELA R AT LOCK & DAM 8, AT PNT MARION, PA	Stream	2000.00	1937	1955
USGS03072000	DUNKARD CREEK AT SHANNOPIN, PA.	Stream	2900.00	1941	1996
USGS03072500	MONONGAHELA RIVER AT GREENSBORO, PA.	Stream	0700.00	1939	1995
USGS03072590	GEORGES CREEK AT SMITHFIELD, PA.	Stream	1630.00	1964	1979
USGS03071600	CHEAT RIVER @ LAKE LYNN, PA	Stream	1411.00		
USGS394655080014301	118	Well			
USGS394851079580301	602	Well			
USGS394902080021301	658	Well			
USGS394902080021302	811	Well			
USGS394903080021501	810	Well			

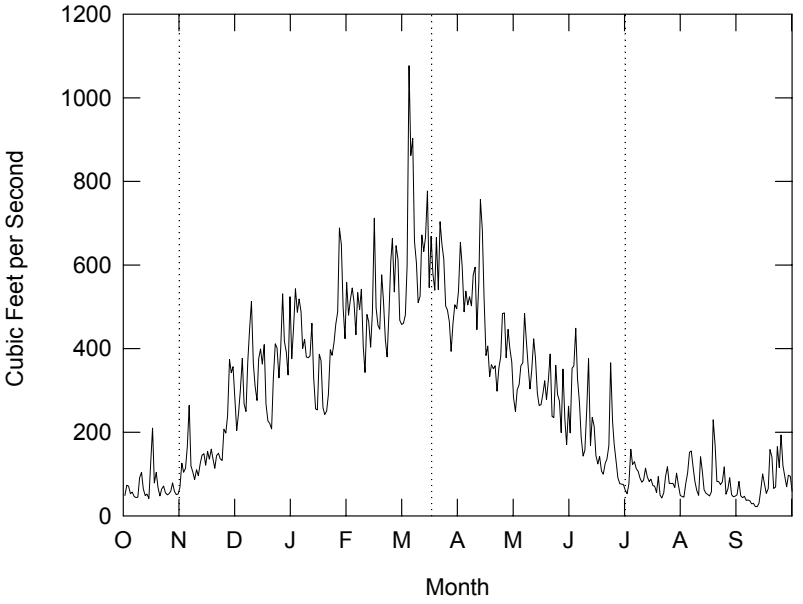
Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the FRHI Study Area

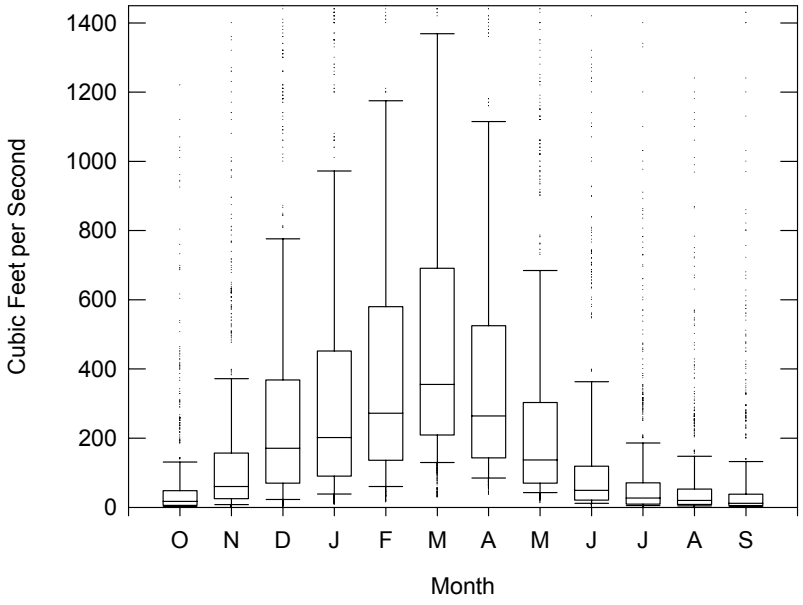
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
PA00124	MONONGAHELA R. LOCK AND DAM	DAEN ORP	Navig.	Gravity	Low	1926
PA00125	MONONGAHELA R. LOCK AND DAM	DAEN ORP	Navig.	Gravity	Low	1959
PA00197	ROBENA SLURRY POND NO 6 DAM	US STEEL CORP	Debris	Earth	Significant	1980
PA00856	ROBENA SLOPE MINE	US STEEL CORP	Other	Earth	Low	1955
PA00857	ROBENA SLOPE MINE REFUSE BANR	US STEEL CORP	Other	Other	Low	1955
WV06126	BOWLBY MILLS A.M.D. TREATMENT	CONSOLIDATION COAL CO.	Other	Earth	High	1977
WV06128	LAKE LYNN DAM	WEST PENN POWER CO	Hydro	Gravity	High	1928

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

FRIENDSHIP HILL NATIONAL HISTORIC SITE
Dunkard Creek at Shannopin, PA
03072000, 47 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 Friendship Hill National Historic Site are: Jul. 1 to Oct. 31, Nov. 1 to Mar. 14, and Mar. 15 to Jun. 30.

CONTACTS FOR AGENCY CODES RETRIEVED FOR FRHI

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259	
21WVINST	FISHER, JANICE	W.VIRGINIA DEPT NAT RES	(304)755-3846	(304)558-2108
112WRD	WILLIAMS, OWEN	US GEOLOGICAL SURVEY	(703)648-5610	
1114O100	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176	
11COEHUN	MARCHESE, VINCE	CORPS OF ENGINEERS	(304)529-5248	
21WV7IWQ	FISHER, JANICE	W.VIRGINIA DEPT NAT RES	(304)755-3846	(304)558-2108
21WVWQAS	FISHER, JANICE	W.VIRGINIA DEPT NAT RES	(304)755-3846	(304)558-2108
1114ENF1	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
21PA	SCHREFFLER, TAMMY	PENNSYLVANIA DPT ENV PROT	(717)783-3638	
111TSILL	HOELMAN, LOUIS	USEPA HQ	(202)260-7050	
21PAFISH	SCHREFFLER, TAMMY	PENNSYLVANIA DPT ENV PROT	(717)783-3638	
11121XWQ	KANETSKY, CHARLES	USEPA REGION 3	(215)597-8176	

QUANTITY OF DATA RETRIEVED FOR FRHI 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
11EPALES	USEPA	04/24/73-06/22/74	No Data in Park	7	0	0	0	0	0	1006	0	19	0
21WVINST	W.VIRGINIA DEPT NAT RES	07/23/96-07/29/96	No Data in Park	5	0	0	0	0	0	50	0	11	0
112WRD	US GEOLOGICAL SURVEY	02/07/49-04/08/97	No Data in Park	32	0	4	0	0	0	8429	0	317	0
1114O100	USEPA REGION 3	08/19/63-08/25/86	No Data in Park	8	0	1	0	4	0	475	0	81	0
11COEHUN	CORPS OF ENGINEERS	07/19/73-08/26/92	No Data in Park	16	0	5	0	2	0	6338	0	48	0
21WV7IWQ	W.VIRGINIA DEPT NAT RES	No Data in S.A.	No Data in Park	1	0	0	0	1	0	0	0	0	0
21WVWQAS	W.VIRGINIA DEPT NAT RES	06/18/96-09/03/97	No Data in Park	1	0	0	0	0	0	250	0	44	0
1114ENF1	USEPA REGION 3	08/19/63-09/06/63	No Data in Park	3	0	0	0	0	0	326	0	12	0
11NPSWRD	NATIONAL PARK SERVICE	08/20/77-06/07/96	03/09/83-06/07/96	23	14	4	3	0	0	2072	1382	73	64
21PA	PENNSYLVANIA DPT ENV PROT	04/04/50-07/14/97	No Data in Park	4	0	4	0	0	0	22202	0	145	0
111TSILL	USEPA HQ	07/29/76-07/29/76	No Data in Park	1	0	0	0	0	0	4	0	4	0
21PAFISH	PENNSYLVANIA DPT ENV PROT	09/15/75-09/15/75	No Data in Park	11	0	0	0	0	0	11	0	1	0
11121XWQ	USEPA REGION 3	07/08/86-07/08/86	No Data in Park	1	0	0	0	0	0	144	0	72	0
Totals		02/07/49-09/03/97	03/09/83-06/07/96	113	14	18	3	7	0	41307	1382	575	64

[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 02/07/49 To 09/03/97

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75
FRHI0001	GEORGES CREEK AT SMITHFIELD, PA.	No	42	0	0	42
FRHI0002[1]	MOUNTAIN RN AT RUBLE MILLS, PA	No	131	0	131	0
FRHI0003	Darnell Hollow at Coopers Rock Forest	No	11	11	0	0
FRHI0004	PT. MARION-FAYETTE CO.-GRASSY RUN	No	1	0	1	0
FRHI0005	MEADOW RUN AT OUTLET OF DEER LAKE	No	76	76	0	0
FRHI0006	PAFA536R	No	13	0	13	0
FRHI0007	Morgans Run near Cheat Neck, W.Va.	No	9	9	0	0
FRHI0008	RUBLES RUN	No	97	0	0	97
FRHI0009	Birch Hollow near Cheat Neck, W.Va.	No	10	10	0	0
FRHI0010	Coles Run at Sunset Beach, W.Va.	No	10	10	0	0
FRHI0011	LAKE LYNN RESERVOIR	No	240	0	0	240
FRHI0012	CHEAT RIVER @ LAKE LYNN, PA	No	26	0	0	26
FRHI0013	CHEAT RIVER AT LAKE LYNN DAM	No	110	0	0	110
FRHI0014	CHEAT RIVER AT LAKE LYNN DAM	No	0	0	0	0
FRHI0015	Kelly Run at Sunset Beach, W.Va.	No	10	10	0	0
FRHI0016	CHEAT RIVER - MILE 3.5	No	107	0	0	107
FRHI0017	COLES RUN	No	97	0	0	97
FRHI0018	BELOW LAKE LYNN DAM	No	20	0	0	20
FRHI0019	CHEAT RIVER	No	95	0	0	95
FRHI0020	PAFA535R	No	13	0	13	0
FRHI0021	Cheat River below Lake Lynn Dam, PA.	No	250	250	0	0
FRHI0022	LAKE LYNN RESERVOIR	No	156	0	0	156
FRHI0023	PAFA534R	No	12	0	12	0
FRHI0024	0904055 TASA COAL CO	No	23	0	0	23
FRHI0025	PT.MARION-FAYETTE CO.-CHEAT RIVER	No	1	0	1	0
FRHI0026	PT.MARION-FAYETTE CO.-CONRAD RESERVOIR	No	1	0	1	0
FRHI0027	NICHOLSON TWP.-JACOBS CREEK-FAYETTE COUNTY	No	1	0	1	0
FRHI0028[1]	CHEAT RIVER AT POINT MARION	No	279	0	0	279
FRHI0029	SPRINGHILL TWP.-FAYETTE CO.-GEORGES CREEK	No	1	0	1	0
FRHI0030	LAKE LYNN RESERVOIR	No	240	0	0	240
FRHI0031	UNNAMED STREAM	No	81	0	0	81
FRHI0032[1]	CHEAT RIVER MILE 0.3	No	611	410	201	0
FRHI0033	CHEAT RIVER AT POINT MARION, PA.	No	36	0	0	36
FRHI0034	MONONGAHELA RIVER AT MOUTH OF CHEAT RIVER	No	144	144	0	0
FRHI0035[1]	CHEAT RVR-SR0119 BR AT PT MARION	No	2507	2507	0	0
FRHI0036	MONONGAHELA RIVER MILE 89.8	No	368	152	100	116
FRHI0037	GEORGE'S CREEK UPSTREAM FROM STATE HIGHWAY 166	No	21	21	0	0
FRHI0038	MONONGAHELA RIVER MILE 88.1	No	252	140	112	0
FRHI0039	MONONGAHELA RIVER MILE 88.1	No	284	160	124	0
FRHI0040	MONONGAHELA RIVER MILE 88.1	No	263	136	127	0
FRHI0041[1]	MONONGAHELA RIVER MILE 90.7	No	655	438	217	0
FRHI0042	PAFA502R	No	13	0	13	0
FRHI0043[1]	MONONGAHELA R AT LOCK & DAM 8, AT PNT MARION, PA	No	4770	0	189	4581
FRHI0044	POINT MARION	No	4	0	4	0
FRHI0045[1]	MONONGAHELA RVR-AT LOCK & DAM #8-POINT MARION	No	6385	3842	2543	0
FRHI0046[1]	MONONGAHELA RIVER MILE 90.9	No	1151	791	360	0
FRHI0047	PAFA504R	No	12	0	12	0
FRHI0048	MONONGAHELA RIVER RM 84.6	No	105	0	0	105
FRHI0049	MONONGAHELA R. AT PT. MARION	No	0	0	0	0
FRHI0050	MONONGAHELA RIVER AT PT. MARION	No	109	0	0	109
FRHI0051[1]	MONONGAHELA RIVER MILE 84.9	No	654	391	263	0
FRHI0052	GERMAN TWP.-FAYETTE CO.-CATS CREEK	No	1	0	1	0
FRHI0053	UNNAMED TRIBUTARY AT DILLINER, PA # 216	No	99	0	99	0
FRHI0054[1]	PRIMARY MINE DRAINAGE TO ICE POND RUN	Yes	241	241	0	0
FRHI0055	PRIMARY MINE DISCHARGE INTO ICE POND RUN	Yes	11	0	11	0
FRHI0056	GREENSBORO-GREENE CO.-MON.R.LOCK #7	No	1	0	1	0
FRHI0057[1]	MONONGAHELA RVR-AT GAUGING STA ABV LOCK DAM 7	No	5194	1014	2612	1568
FRHI0058[1]	MONONGAHELA R ABV LOCK AND DAM 7, PA.	No	236	0	202	34
FRHI0059[1]	SECONDARY MINE DRAINAGE TO ICE POND RUN	No	584	584	0	0
FRHI0060[1]	MONONGAHELA RIVER MILE 85.1	No	1167	805	362	0
FRHI0061	MONONGAHELA RIVER MILE 81.5	No	358	222	136	0
FRHI0062	CONFLUENCE OF ICE POND RUN MINE DRAINAGE	No	11	0	11	0
FRHI0063	MONONGAHELA RIVER AT LOCK 7	No	109	0	0	109
FRHI0064	MONONGAHELA RIVER AT LOCK 7	No	0	0	0	0
FRHI0065	CELL 2 OF BOM WETLAND IN ICE POND RUN	Yes	58	58	0	0
FRHI0066	Monongahela River below Hoard, W. Va.	No	0	0	0	0
FRHI0067	CELL 1 OF BOM WETLAND IN ICE POND RUN	Yes	56	56	0	0
FRHI0068	ICE POND RUN DOWNSTREAM FROM STATE HIGHWAY 166	Yes	56	56	0	0
FRHI0069[1]	ICE POND RUN DOWNSTREAM FROM STATE HIGHWAY 166	Yes	555	555	0	0
FRHI0070	ICE POND RUN ADJACENT TO BOM WETLAND	Yes	56	56	0	0
FRHI0071	ICE POND RUN ADJACENT TO BOM WETLAND	Yes	44	44	0	0

Station Period of Record Tabulation
From 02/07/49 To 09/03/97

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75
FRHI0072	CELL 3 OF BOM WETLAND IN ICE POND RUN	Yes	58	58	0	0
FRHI0073	MONONGAHELA RIVER AT GREENSBORO, PA.	No	29	0	0	29
FRHI0074	UPPER POND DAM ON ICE POND RUN	Yes	11	0	11	0
FRHI0075	OUTLET FOR BOM WETLAND TO ICE POND RUN	Yes	56	56	0	0
FRHI0076[1]	ICE POND RUN DOWNSTREAM FROM BOM WETLAND	Yes	113	113	0	0
FRHI0077	ICE POND RUN DOWNSTREAM FROM BOM WETLAND	Yes	56	56	0	0
FRHI0078	UNNAMED TRIBUTARY AT DILLNER, PA # 217	No	99	0	99	0
FRHI0079	CROOKED RUN NEAR POINT MARION, PA # 215	No	114	0	114	0
FRHI0080	LOWER POND DAM ON ICE POND RUN	Yes	11	0	11	0
FRHI0081	MONONGAHELA RIVER RM 79.2	No	13	0	0	13
FRHI0082	UNNAMED TRIBUTARY AT POLAND MINES, PA # 218	No	99	0	99	0
FRHI0083	DUNKARD TWP.-GREENE CO.-MONONGAHELA R	No	1	0	1	0
FRHI0084	LITTLE WHITELEY CREEK AT PAISLEY, PA # 209	No	113	0	113	0
FRHI0085	MONONGAHELA RIVER MILE 94.7	No	350	208	142	0
FRHI0086	EAST DUNKARD WTP INTAKE MONONGAHELA RM 88	No	67	67	0	0
FRHI0087	MONONGAHELA TWP.-GREENE CO.-WHITLEY CREEK	No	1	0	1	0
FRHI0088	WHITELEY CREEK NEAR MAPLETOWN, PA # 219	No	114	0	114	0
FRHI0089	CUMBERLAND TWP.-GREENE CO.-LITTLE WHITELY CREEK	No	1	0	1	0
FRHI0090	UNNAMED TRIBUTARY NEAR BOBTOWN, PA # 212	No	100	0	100	0
FRHI0091	UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 214	No	116	0	116	0
FRHI0092	DUNKARD CREEK AT SHANNOPIN, PA.	No	897	539	308	50
FRHI0093	DUNKARD TWP.-GREENE CO.-DUNKARD CREEK	No	1	0	1	0
FRHI0094	UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 213	No	95	0	95	0
FRHI0095	DUNKARD CREEK AT SHANNOPIN	No	107	0	0	107
FRHI0096[1]	DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF SR2011)	No	8116	4066	2564	1486
FRHI0097	DREDGE SITE,ROSEDALE COAL CO DOCK, MON RIV-MI 96	No	0	0	0	0
FRHI0098	DREDGE SITE,ROSEDALE COAL CO DOCK,MON RIV-M 96.2	No	0	0	0	0
FRHI0099	UNNAMED TRIBUTARY NEAR MAPLETOWN, PA # 210A	No	30	0	30	0
FRHI0100	GRS 599	No	29	0	29	0
FRHI0101	UNNAMED TRIBUTARY NEAR MAPLETOWN, PA # 210	No	112	0	112	0
FRHI0102	ROBINSON RUN NEAR MOUTH	No	0	0	0	0
FRHI0103	UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 220	No	63	0	63	0
FRHI0104	UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 221	No	115	0	115	0
FRHI0105	UNNAMED TRIBUTARY AT GARARDS FORT, PA # 317	No	115	0	115	0
FRHI0106	UNNAMED TRIBUTARY NEAR MOUNT MORRIS, PA # 310	No	115	0	115	0
FRHI0107	PAGR523R	No	11	0	11	0
FRHI0108	WHITELEY CREEK AT GARARDS FORT, PA # 316	No	115	0	115	0
FRHI0109	GRS 250	No	35	0	35	0
FRHI0110[1]	MEADOW RUN AT DAVISTOWN, PA # 318	No	225	0	225	0
FRHI0111	MINOR RUN NEAR GARARDS FORT, PA # 315	No	114	0	114	0
FRHI0112	200	No	35	0	35	0
FRHI0113	FROSTY RUN NEAR GARARDS FORT, PA # 313	No	111	0	111	0

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

Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00004	STREAM WIDTH (FEET)	5	5	0	0	5	0
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	71	19	0	52	12	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1994	988	599	407	69	1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	32	1	0	31	3	0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	18	0	0	18	4	0
00025	BAROMETRIC PRESSURE (MM OF HG)	11	11	0	0	1	0
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	212	16	31	165	8	0
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	110	16	94	0	25	0
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	244	209	34	1	3	0
00032	CLOUD COVER (PERCENT)	31	0	31	0	11	0
00035	WIND VELOCITY (MILES PER HOUR)	6	6	0	0	1	0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	6	6	0	0	1	0
00049	SURFACE AREA IN SQUARE MILES	35	0	0	35	1	0
00057	FLOW, INDICATES IT HAS BEEN CHECKED	497	272	225	0	2	0
00058	FLOW, RATE GALLONS/MIN	6	3	0	3	4	0
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	3	0	3	0	3	0
00060	FLOW, STREAM, MEAN DAILY CFS	816	282	312	222	12	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	626	351	210	65	28	0
00065	STAGE, STREAM (FEET)	398	276	122	0	4	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	189	0	79	110	8	0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	34	0	0	34	3	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	270	60	186	24	13	0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	42	0	33	9	14	0
00080	COLOR (PLATINUM-COBALT UNITS)	290	58	44	188	22	0
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	3	0	0	3	2	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	1079	667	347	65	32	0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1325	482	426	417	55	3
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	800	460	340	0	17	0
00300	OXYGEN, DISSOLVED MG/L	640	311	103	226	16	0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	1	0	0	1	1	0
00310	BOD, 5 DAY, 20 DEG C MG/L	95	0	0	95	5	0
00400	PH (STANDARD UNITS)	1857	912	493	452	70	0
00403	PH, LAB, STANDARD UNITS SU	1263	645	379	239	50	7
00405	CARBON DIOXIDE (MG/L AS CO2)	63	0	51	12	18	0
00406	PH, FIELD, STANDARD UNITS SU	76	76	0	0	3	2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1238	523	450	265	51	0
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	1	0	0	1	1	0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	371	178	120	73	47	7
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	451	61	225	165	21	0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	446	60	135	251	20	0
00440	BICARBONATE ION (MG/L AS HCO3)	239	0	51	188	22	0
00445	CARBONATE ION (MG/L AS CO3)	99	0	10	89	14	0
00500	RESIDUE, TOTAL (MG/L)	93	0	5	88	7	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	662	363	292	7	12	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	504	351	51	102	19	0
00556	OIL & GREASE (FREON EXTR.-GRAV METH) TOT,REC,MG/L	1	0	1	0	1	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	7	0	0	7	1	0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	19	11	0	8	2	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	988	514	356	118	21	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	12	11	0	1	2	0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	835	455	324	56	11	0
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	4	0	0	4	4	0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	841	460	318	63	12	0
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11	11	0	0	1	0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	211	72	24	115	17	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	175	48	24	103	15	0
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	50	11	39	0	22	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	82	0	0	82	1	0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	42	0	1	41	6	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	994	524	357	113	21	0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	21	19	0	2	10	7
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	123	11	3	109	13	0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	381	346	0	35	5	0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11	11	0	0	1	0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	1	0	0	1	1	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)	11	11	0	0	1	0
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	2	0	2	0	2	0
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	68	35	33	0	2	0
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	124	37	85	2	5	0

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Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00900	HARDNESS, TOTAL (MG/L AS CACO3)	1358	521	417	420	50	0
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	215	0	27	188	22	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	395	140	137	118	49	14
00916	CALCIUM, TOTAL (MG/L AS CA)	420	169	251	0	9	0
00920	MAGNESIUM (MG/L AS CACO3)	4	0	4	0	4	3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	397	140	139	118	51	11
00927	MAGNESIUM, TOTAL (MG/L AS MG)	419	169	250	0	9	0
00929	SODIUM, TOTAL (MG/L AS NA)	77	64	13	0	7	0
00930	SODIUM, DISSOLVED (MG/L AS NA)	256	140	46	70	46	11
00931	SODIUM ADSORPTION RATIO	51	0	40	11	28	0
00932	SODIUM, PERCENT	48	0	40	8	28	0
00933	SODIUM,PLUS POTASSIUM (MG/L)	24	0	19	5	22	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	146	36	40	70	40	11
00937	POTASSIUM, TOTAL MG/L AS K)	64	51	13	0	6	0
00940	CHLORIDE,TOTAL IN WATER MG/L	878	138	412	328	42	0
00945	SULFATE, TOTAL (MG/L AS SO4)	1431	533	452	446	48	0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	125	121	4	0	9	7
00950	FLUORIDE, DISSOLVED (MG/L AS F)	295	10	40	245	30	0
00951	FLUORIDE, TOTAL (MG/L AS F)	182	35	107	40	4	0
00955	SILICA, DISSOLVED (MG/L AS SI02)	122	11	40	71	28	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	15	14	0	1	6	4
01002	ARSENIC, TOTAL (UG/L AS AS)	33	28	3	2	10	0
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	4	2	2	0	3	0
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	2	2	0	0	2	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	22	22	0	0	13	11
01007	BARIUM, TOTAL (UG/L AS BA)	68	60	8	0	6	0
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	7	7	0	0	7	7
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	14	14	0	0	5	4
01012	BERYLLIUM, TOTAL (UG/L AS BE)	68	60	8	0	6	0
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	7	7	0	0	7	7
01020	BORON, DISSOLVED (UG/L AS B)	8	8	0	0	8	7
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	7	7	0	0	7	7
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	7	7	0	0	7	7
01025	CADMIUM, DISSOLVED (UG/L AS CD)	25	22	0	3	15	11
01027	CADMIUM, TOTAL (UG/L AS CD)	96	67	26	3	13	0
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	4	2	2	0	3	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	9	7	2	0	9	7
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	24	22	0	2	15	11
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	106	76	27	3	12	0
01035	COBALT, DISSOLVED (UG/L AS CO)	14	14	0	0	5	4
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	2	0	2	0	2	0
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	7	7	0	0	7	7
01040	COPPER, DISSOLVED (UG/L AS CU)	25	22	0	3	15	11
01042	COPPER, TOTAL (UG/L AS CU)	456	426	27	3	14	0
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	9	7	2	0	9	7
01044	IRON, SUSPENDED (UG/L AS FE)	69	0	69	0	25	0
01045	IRON, TOTAL (UG/L AS FE)	1240	530	463	247	44	0
01046	IRON, DISSOLVED (UG/L AS FE)	121	19	91	11	39	7
01047	IRON, FERROUS (UG/L AS FE)	124	120	4	0	9	7
01049	LEAD, DISSOLVED (UG/L AS PB)	25	22	0	3	15	11
01051	LEAD, TOTAL (UG/L AS PB)	450	420	27	3	14	0
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11	9	2	0	10	7
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	2	0	2	0	2	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	90	0	90	0	25	0
01055	MANGANESE, TOTAL (UG/L AS MN)	1012	462	261	289	42	0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	247	140	97	10	49	14
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	8	8	0	0	8	7
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	7	7	0	0	7	7
01065	NICKEL, DISSOLVED (UG/L AS NI)	24	22	0	2	15	11
01067	NICKEL, TOTAL (UG/L AS NI)	455	426	26	3	14	0
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	9	9	0	0	8	7
01077	SILVER, TOTAL (UG/L AS AG)	2	2	0	0	1	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10	8	1	1	10	7
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	7	7	0	0	7	7
01085	VANADIUM, DISSOLVED (UG/L AS V)	14	8	6	0	14	7
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	7	7	0	0	7	7
01090	ZINC, DISSOLVED (UG/L AS ZN)	42	22	17	3	32	11
01091	ZINC, SUSPENDED (UG/L ZN)	10	0	10	0	10	0
01092	ZINC, TOTAL (UG/L AS ZN)	501	433	65	3	32	0
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	9	7	2	0	9	7

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Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	14	14	0	0	5	4
01097	ANTIMONY, TOTAL (UG/L AS SB)	59	51	8	0	6	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	791	464	149	178	35	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	190	140	47	3	44	14
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	16	0	16	0	16	0
01140	SILICON, DISSOLVED (UG/L AS SI)	8	8	0	0	8	7
01145	SELENIUM, DISSOLVED (UG/L AS SE)	14	14	0	0	5	4
01147	SELENIUM, TOTAL (UG/L AS SE)	18	18	0	0	6	0
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	4	2	2	0	3	0
01150	TITANIUM, DISSOLVED (UG/L AS TI)	8	8	0	0	8	7
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	7	7	0	0	7	7
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	2	0	2	0	2	0
01300	OIL-GREASE (SEVERITY)	40	6	0	34	2	0
01305	DETERGENT SUDS (SEVERITY)	41	6	0	35	2	0
01310	GAS BUBBLES (SEVERITY)	41	6	0	35	2	0
01315	SLUDGE, FLOATING (SEVERITY)	40	6	0	34	2	0
01320	GARBAGE, FLOATING (SEVERITY)	40	6	0	34	2	0
01325	ALGAE, FLOATING MATS (SEVERITY)	41	6	0	35	2	0
01330	ODOR, ATMOSPHERIC (SEVERITY)	112	6	67	39	5	0
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	41	6	0	35	2	0
01340	FISH, DEAD (SEVERITY)	41	6	0	35	2	0
01345	DEBRIS, FLOATING (SEVERITY)	41	6	0	35	2	0
01350	TURBIDITY (SEVERITY)	41	6	0	35	2	0
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	165	0	0	165	4	0
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	40	6	0	34	2	0
01501	ALPHA, TOTAL	129	0	92	37	4	0
01502	ALPHA, TOTAL, COUNTING ERROR	14	0	14	0	2	0
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	1	0	0	1	1	0
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	1	0	0	1	1	0
03501	BETA, TOTAL	128	0	91	37	4	0
03502	BETA, TOTAL, COUNTING ERROR	36	0	36	0	2	0
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	1	0	0	1	1	0
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	1	0	0	1	1	0
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	25	0	25	0	3	0
22703	URANIUM, NATURAL, DISSOLVED	2	0	2	0	2	0
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	14	14	0	0	7	7
30380	BUTACHLOR UG/KG	2	2	0	0	1	0
30381	CHLOROBENZILATE UG/KG	2	2	0	0	1	0
30382	TRIPHENYL PHOSPHATE UG/KG	2	2	0	0	1	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	61	0	1	60	4	0
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	66	0	0	66	2	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	476	139	285	52	12	0
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	11	0	0	11	2	0
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	1	1	0	0	1	0
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	1	1	0	0	1	0
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	1	1	0	0	1	0
32104	BROMOFORM,WHOLE WATER,UG/L	1	1	0	0	1	0
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	1	1	0	0	1	0
32106	CHLOROFORM,WHOLE WATER,UG/L	2	1	1	0	2	0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	9	0	0	9	3	0
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	1	0	1	0	1	0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	208	34	127	47	5	0
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	1	0	0	1	0
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	1	0	0	1	0
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34208	ACENAPHTHENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34223	ANTHRACENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	2	2	0	0	1	0
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	2	2	0	0	1	0
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34301	CHLOROBENZENE TOTWUG/L	1	1	0	0	1	0
34311	CHLOROETHANE TOTWUG/L	1	1	0	0	1	0
34323	CHRYSENE DRY WGTBOTUG/KG	2	2	0	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34371	ETHYLBENZENE TOTWUG/L	1	1	0	0	1	0
34379	FLUORANTHENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34384	FLUORENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34413	METHYL BROMIDE TOTWUG/L	1	1	0	0	1	0
34418	METHYL CHLORIDE TOTWUG/L	1	1	0	0	1	0
34423	METHYLENE CHLORIDE TOTWUG/L	2	1	1	0	2	0
34445	NAPHTHALENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34461	PHENANTHRENE TOTWUG/L	2	2	0	0	1	0
34472	PYRENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34475	TETRACHLOROETHYLENE TOTWUG/L	1	1	0	0	1	0
34480	THALLIUM DRY WGTBOTMG/KG	2	2	0	0	1	0
34496	1,1-DICHLOROETHANE TOTWUG/L	1	1	0	0	1	0
34501	1,1-DICHLOROETHYLENE TOTWUG/L	1	1	0	0	1	0
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	1	1	0	0	1	0
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	1	1	0	0	1	0
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	1	1	0	0	1	0
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	2	2	0	0	1	0
34536	1,2-DICHLOROBENZENE TOTWUG/L	1	1	0	0	1	0
34541	1,2-DICHLOROPROPANE TOTWUG/L	1	1	0	0	1	0
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	1	1	0	0	1	0
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	2	2	0	0	1	0
34566	1,3-DICHLOROBENZENE TOTWUG/L	1	1	0	0	1	0
34571	1,4-DICHLOROBENZENE TOTWUG/L	1	1	0	0	1	0
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	1	1	0	0	1	0
34664	PCB - 1221 WET WGTTISMG/KG	1	1	0	0	1	0
34667	PCB - 1232 WET WGTTISMG/KG	1	1	0	0	1	0
34669	PCB - 1248 WET WGTTISMG/KG	1	1	0	0	1	0
34670	PCB - 1260 WET WGTTISMG/KG	1	1	0	0	1	0
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	7	7	0	0	3	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	2	2	0	0	2	0
34685	ENDRIN WET WGTTISMG/KG	7	7	0	0	3	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	7	7	0	0	3	0
34687	HEPTACHLOR WET WGTTISMG/KG	7	7	0	0	3	0
34689	PCB - 1242 WET WGTTISMG/KG	1	1	0	0	1	0
34690	PCB - 1254 WET WGTTISMG/KG	1	1	0	0	1	0
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	1	1	0	0	1	0
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	1	1	0	0	1	0
34790	SURFACTANTS, AS CTAS, WATER MG/L	1	1	0	0	1	0
34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34805	BARIUM, BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34880	IRON,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0

Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
34985	TIN,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	1	1	0	0	1	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	160	0	67	93	7	0
38823	ISOPROPALIN SEDDRYWGTUG/KG	2	2	0	0	1	0
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	5	5	0	0	3	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	5	5	0	0	3	0
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	5	5	0	0	3	0
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	5	5	0	0	3	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	7	7	0	0	3	0
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	11	11	0	0	1	0
39105	PERCENT FAT HEXANE EXTRACTION	7	7	0	0	3	0
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	1	1	0	0	1	0
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	1	1	0	0	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	7	7	0	0	3	0
39307	O P DDT IN TISSUE WET WGT (UG/G)	7	7	0	0	3	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	7	7	0	0	3	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	7	7	0	0	3	0
39325	O,P DDD IN TISSUE WET WGT (UG/G)	7	7	0	0	3	0
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	7	7	0	0	3	0
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	2	2	0	0	1	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	7	7	0	0	3	0
39515	PCBS (MG/KG) FISH TISSUE MG/KG	6	6	0	0	3	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	11	0	11	0	11	0
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	7	7	0	0	3	0
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)	101	0	97	4	3	0
46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	31	0	1	30	2	0
46008	PHYLUM NEMATODA, NEMATODES	20	0	20	0	2	0
46014	FAMILY HIRUDIDAE, LEECHES	8	3	5	0	2	0
46018	FAMILY GAMMARIDAE, SCUD	12	3	9	0	2	0
46025	FAMILY PERLODIDAE, STONEFLY W/GILLS ON SUBMENTUM	1	0	1	0	1	0
46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	3	0	3	0	2	0
46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	9	6	3	0	2	0
46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	4	0	4	0	2	0
46084	FAMILY SIMULIIDAE, BLACK FLIES	4	2	2	0	1	0
46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	39	6	33	0	2	0
46095	FAMILY PHYSIDAE, LUNG SNAILS	7	4	3	0	2	0
46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	39	6	33	0	2	0
46142	FAMILY POLYCENTROPIDAE, CADDISFLY NO/FT2	20	6	14	0	2	0
46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	5	5	0	0	3	0
49266	INVALID PARAMETER	1	1	0	0	1	0
49267	INVALID PARAMETER	1	1	0	0	1	0
49269	INVALID PARAMETER	1	1	0	0	1	0
49270	INVALID PARAMETER	1	1	0	0	1	0
49271	INVALID PARAMETER	1	1	0	0	1	0
49272	INVALID PARAMETER	1	1	0	0	1	0
49274	INVALID PARAMETER	1	1	0	0	1	0
49275	INVALID PARAMETER	1	1	0	0	1	0
49276	INVALID PARAMETER	1	1	0	0	1	0
49277	INVALID PARAMETER	1	1	0	0	1	0
49278	INVALID PARAMETER	1	1	0	0	1	0
49279	INVALID PARAMETER	1	1	0	0	1	0
49280	INVALID PARAMETER	1	1	0	0	1	0
49316	INVALID PARAMETER	1	1	0	0	1	0
49317	INVALID PARAMETER	1	1	0	0	1	0
49318	INVALID PARAMETER	1	1	0	0	1	0
49319	INVALID PARAMETER	1	1	0	0	1	0
49320	INVALID PARAMETER	1	1	0	0	1	0
49321	INVALID PARAMETER	1	1	0	0	1	0
49322	INVALID PARAMETER	1	1	0	0	1	0
49324	INVALID PARAMETER	1	1	0	0	1	0
49325	INVALID PARAMETER	1	1	0	0	1	0
49326	INVALID PARAMETER	1	1	0	0	1	0
49327	INVALID PARAMETER	1	1	0	0	1	0

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
49328	INVALID PARAMETER	1	1	0	0	1	0
49329	INVALID PARAMETER	1	1	0	0	1	0
49330	INVALID PARAMETER	1	1	0	0	1	0
49331	INVALID PARAMETER	1	1	0	0	1	0
49332	INVALID PARAMETER	1	1	0	0	1	0
49335	INVALID PARAMETER	1	1	0	0	1	0
49338	INVALID PARAMETER	1	1	0	0	1	0
49339	INVALID PARAMETER	1	1	0	0	1	0
49341	INVALID PARAMETER	1	1	0	0	1	0
49342	INVALID PARAMETER	1	1	0	0	1	0
49343	INVALID PARAMETER	1	1	0	0	1	0
49344	INVALID PARAMETER	1	1	0	0	1	0
49345	INVALID PARAMETER	1	1	0	0	1	0
49346	INVALID PARAMETER	1	1	0	0	1	0
49347	INVALID PARAMETER	1	1	0	0	1	0
49348	INVALID PARAMETER	1	1	0	0	1	0
49349	INVALID PARAMETER	1	1	0	0	1	0
49350	INVALID PARAMETER	1	1	0	0	1	0
49351	INVALID PARAMETER	1	1	0	0	1	0
49381	INVALID PARAMETER	1	1	0	0	1	0
49382	INVALID PARAMETER	1	1	0	0	1	0
49383	INVALID PARAMETER	1	1	0	0	1	0
49384	INVALID PARAMETER	1	1	0	0	1	0
49387	INVALID PARAMETER	1	1	0	0	1	0
49388	INVALID PARAMETER	1	1	0	0	1	0
49389	INVALID PARAMETER	1	1	0	0	1	0
49390	INVALID PARAMETER	1	1	0	0	1	0
49391	INVALID PARAMETER	1	1	0	0	1	0
49392	INVALID PARAMETER	1	1	0	0	1	0
49393	INVALID PARAMETER	1	1	0	0	1	0
49394	INVALID PARAMETER	1	1	0	0	1	0
49395	INVALID PARAMETER	1	1	0	0	1	0
49396	INVALID PARAMETER	1	1	0	0	1	0
49397	INVALID PARAMETER	1	1	0	0	1	0
49398	INVALID PARAMETER	1	1	0	0	1	0
49399	INVALID PARAMETER	1	1	0	0	1	0
49400	INVALID PARAMETER	1	1	0	0	1	0
49401	INVALID PARAMETER	1	1	0	0	1	0
49402	INVALID PARAMETER	1	1	0	0	1	0
49403	INVALID PARAMETER	1	1	0	0	1	0
49404	INVALID PARAMETER	1	1	0	0	1	0
49405	INVALID PARAMETER	1	1	0	0	1	0
49406	INVALID PARAMETER	1	1	0	0	1	0
49407	INVALID PARAMETER	1	1	0	0	1	0
49408	INVALID PARAMETER	1	1	0	0	1	0
49409	INVALID PARAMETER	1	1	0	0	1	0
49410	INVALID PARAMETER	1	1	0	0	1	0
49411	INVALID PARAMETER	1	1	0	0	1	0
49413	INVALID PARAMETER	1	1	0	0	1	0
49421	INVALID PARAMETER	1	1	0	0	1	0
49422	INVALID PARAMETER	1	1	0	0	1	0
49424	INVALID PARAMETER	1	1	0	0	1	0
49426	INVALID PARAMETER	1	1	0	0	1	0
49427	INVALID PARAMETER	1	1	0	0	1	0
49428	INVALID PARAMETER	1	1	0	0	1	0
49429	INVALID PARAMETER	1	1	0	0	1	0
49430	INVALID PARAMETER	1	1	0	0	1	0
49431	INVALID PARAMETER	1	1	0	0	1	0
49433	INVALID PARAMETER	1	1	0	0	1	0
49434	INVALID PARAMETER	1	1	0	0	1	0
49435	INVALID PARAMETER	1	1	0	0	1	0
49436	INVALID PARAMETER	1	1	0	0	1	0
49437	INVALID PARAMETER	1	1	0	0	1	0
49438	INVALID PARAMETER	1	1	0	0	1	0
49439	INVALID PARAMETER	1	1	0	0	1	0
49441	INVALID PARAMETER	1	1	0	0	1	0
49442	INVALID PARAMETER	1	1	0	0	1	0
49443	INVALID PARAMETER	1	1	0	0	1	0
49444	INVALID PARAMETER	1	1	0	0	1	0
49446	INVALID PARAMETER	1	1	0	0	1	0
49449	INVALID PARAMETER	1	1	0	0	1	0

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
49450	INVALID PARAMETER	1	1	0	0	1	0
49451	INVALID PARAMETER	1	1	0	0	1	0
49452	INVALID PARAMETER	1	1	0	0	1	0
49454	INVALID PARAMETER	1	1	0	0	1	0
49455	INVALID PARAMETER	1	1	0	0	1	0
49457	INVALID PARAMETER	1	1	0	0	1	0
49458	INVALID PARAMETER	1	1	0	0	1	0
49459	INVALID PARAMETER	1	1	0	0	1	0
49460	INVALID PARAMETER	1	1	0	0	1	0
49461	INVALID PARAMETER	1	1	0	0	1	0
49466	INVALID PARAMETER	1	1	0	0	1	0
49467	INVALID PARAMETER	1	1	0	0	1	0
49468	INVALID PARAMETER	1	1	0	0	1	0
49490	INVALID PARAMETER	1	1	0	0	1	0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	10	0	10	0	3	0
50700	INVALID PARAMETER	6	0	6	0	6	0
50760	INVALID PARAMETER	6	0	6	0	6	0
50761	INVALID PARAMETER	3	0	3	0	3	0
50788	INVALID PARAMETER	7	7	0	0	7	7
70222	WAVE HEIGHT (WMO CODE 1555)	4	0	4	0	4	0
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	4	0	0	4	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	287	10	93	184	36	3
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	34	0	28	6	21	0
70302	SOLIDS, DISSOLVED-TONS PER DAY	95	0	86	9	25	0
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	105	0	61	44	26	0
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	7	7	0	0	7	7
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	6	6	0	0	3	0
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	6	6	0	0	1	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	8	0	0	8	3	0
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	502	151	284	67	20	0
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	37	37	0	0	6	0
71825	ACIDITY, TOTAL (MG/L AS H)	232	0	79	153	28	0
71830	HYDROXIDE ION (MG/L AS OH)	1	0	1	0	1	0
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	1	0	0	1	1	0
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	1	0	0	1	1	0
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	35	0	0	35	1	0
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	195	0	0	195	8	0
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	1	0	0	1	1	0
71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	37	0	0	37	2	0
71885	IRON (UG/L AS FE)	168	0	0	168	2	0
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	69	0	0	69	1	0
71888	PHOSPHORUS, TOTAL SOLUBLE AS PO4 - MG/L	3	0	0	3	1	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	2	2	0	0	2	2
71900	MERCURY, TOTAL (UG/L AS HG)	17	11	3	3	5	0
71918	ARSENIC,TOTAL IN FISH,DRY WEIGHT BASIS	1	1	0	0	1	0
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	6	4	2	0	5	2
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	4	4	0	0	3	0
71932	ZINC,TOTAL IN FISH,DRY WEIGHT BASIS	1	1	0	0	1	0
71934	LEAD TOTAL IN FISH DRY WEIGHT BASIS	1	1	0	0	1	0
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	6	6	0	0	3	0
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	6	6	0	0	3	0
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	6	6	0	0	3	0
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	6	6	0	0	3	0
71941	CADMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	1	1	0	0	1	0
71942	COPPER,TOTAL IN FISH-DRY WEIGHT BASIS	1	1	0	0	1	0
71943	CHROMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	1	1	0	0	1	0
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	35	0	0	35	1	0
72005	SAMPLE SOURCE CODE (BM WELL DATA)	2	0	2	0	2	0
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	1	0	0	1	1	0
72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	2	0	0	2	2	0
72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	2	0	0	2	2	0
72025	DEPTH OF POND OR RESERVOIR IN FEET	9	0	0	9	3	0
74010	IRON, TOTAL (MG/L AS FE)	125	121	4	0	9	7
75039	TRICHLOROBENZENE,1,2,4 SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75040	HEXACHLOROBUTADIENE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75041	BHC,ALPHA- SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75042	HEXACHLOROBENZENE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75043	PENTACHLOROANISOLE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75044	HEPTACHLOR SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75045	HEPTACHLOR EPOXIDE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75046	DDE,P,P'-(4,4'-DDE) SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
75047	DIELDRIN SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75048	ENDRIN SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75050	ALACHLOR UG/KG	2	2	0	0	1	0
75051	DICHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75052	OCTACHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75054	DECACHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
75558	BIPHENYL SEDIMENT,DRY WGT,UG/KG	2	2	0	0	1	0
77041	CARBON DISULFIDE WHOLE WATER,UG/L	1	1	0	0	1	0
77103	2-HEXANONE WHOLE WATER,UG/L	1	1	0	0	1	0
77128	STYRENE WHOLE WATER,UG/L	1	1	0	0	1	0
77134	1,3-DIMETHYLBENZENE(M-XYLENE) WHOLE WATER,UG/L	1	1	0	0	1	0
78133	4-METHYL-2-PENTANONE IN WATER UG/L	1	1	0	0	1	0
78415	LEAD SEDWETWTMG/KG	7	7	0	0	7	7
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	5	5	0	0	3	0
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	5	5	0	0	3	0
78639	METHYLCHRYSENE METHYLBENZANTHRACENE IN SED UG/KG	2	2	0	0	1	0
78657	NONACHLOR, TRANS, SEDIMENT, DRY WEIGHT, UG/KG	2	2	0	0	1	0
78817	TRIMETHYL PHENANTHRENE IN SEDIMENT DRY WGT UG/KG	2	2	0	0	1	0
78828	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
78875	MONOCHLOROBIPHENYLS TOTAL IN SED DRY WEIGHT UG/KG	2	2	0	0	1	0
78924	NONACHLOR, CIS, SEDIMENT, DRY WEIGHT UG/KG	2	2	0	0	1	0
79785	TRICHLOROBENZENE,1,3,5- SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79786	TRICHLOROBENZENE,1,2,3- SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79787	TETRACHLOROBENZENE,1,2,4,5- SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79789	TETRACHLOROBENZENE,1,2,3,4- SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79790	PENTACHLOROBENZENE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79791	DIPHENYL DISULFIDE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79792	CHLORPYRIFOS SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79793	OCTACHLOROSTYRENE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79794	OXYCHLORDANE SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79795	CHLORDANE, TRANS SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79796	CHLORDANE, CIS SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79797	NITROFEN SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79798	METHOXYCHLOR SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79799	DICOFOL (KELTHANE) SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
79800	MIREX SEDIMENT,DRY,WT,UG/KG	2	2	0	0	1	0
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	1	0	0	1	1	0
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	1	0	0	1	1	0
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	1	0	0	1	1	0
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	1	0	0	1	1	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	19	7	12	0	4	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	12	0	12	0	2	0
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	1	1	0	0	1	0
80353	XYLENE ISOMERS, O+P, WHOLE WATER UG/L	1	1	0	0	1	0
81491	METHYL PALMITATE WHL WATER SMPL UG/L	1	0	1	0	1	0
81494	METHYL STEARATE WHL WATER SMPL UG/L	1	0	1	0	1	0
81552	ACETONE WHL WATER SMPL UG/L	1	1	0	0	1	0
81595	METHYL ETHYL KETONE WHL WATER SMPL UG/L	1	1	0	0	1	0
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	7	7	0	0	3	0
81618	TREFLAN(TRIFLURALIN) IN SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	7	7	0	0	3	0
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	5	5	0	0	3	0
81808	PENTACHLORONITROBENZENE IN SEDIMENT DRY WGT UG/KG	2	2	0	0	1	0
81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	3	3	0	0	3	0
81876	TRICHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
81878	TETRACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
81880	PENTACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
81882	HEXACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
81884	HEPTACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	2	2	0	0	1	0
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	5	5	0	0	3	0
82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	2	0	2	0	2	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	21	0	21	0	21	0
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	204	109	95	0	3	0
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	6	0	6	0	6	0
82398	SAMPLING METHOD (CODES)	3	1	2	0	3	0
82550	OSMOTIC PRESSURE,TOTAL,UNF WHL WTR,MILLIOSMOLES/KG	3	0	3	0	1	0
83500	SAMPLE, AREA SQUARE CENTIMETERS	14	14	0	0	3	0
83507	POOL, AVERAGE DEPTH METER	4	4	0	0	4	0
83508	RIFFLE, AVERAGE DEPTH METER	5	5	0	0	5	0
83509	STREAM, WIDTH METER	5	5	0	0	5	0

Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Parameter Code	Name	Total Obs	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	5	2	2	1	4	0
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	5	2	2	1	4	0
84007	ANATOMY ALPHA CODE	7	7	0	0	3	0
84030	CLOUD AMOUNT ALPHA WEATHER CODES	7	7	0	0	2	0
84031	PHYSICAL WEATHER ALPHA WEATHER CODES	3	3	0	0	1	0
84032	STREAM CONDITION ALPHA WEATHER CODES	6	6	0	0	1	0
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE	17	17	0	0	3	0

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0003	No	00004	STREAM WIDTH (FEET)	07/29/96-07/29/96	0	1	
FRHI0007	No	00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	0	1	
FRHI0009	No	00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	0	1	
FRHI0010	No	00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	0	1	
FRHI0015	No	00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	0	1	
FRHI0003	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/29/96-07/29/96	0	1	
FRHI0007	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/23/96-07/23/96	0	1	
FRHI0009	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/23/96-07/23/96	0	1	
FRHI0010	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/23/96-07/23/96	0	1	
FRHI0011	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/24/73-10/05/73	0	19	
FRHI0015	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/23/96-07/23/96	0	1	
FRHI0021	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/18/96-09/03/97	1	6	
FRHI0022	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/24/73-10/05/73	0	12	
FRHI0030	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/24/73-10/05/73	0	19	
FRHI0034	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/08/86-07/08/86	0	2	
FRHI0043	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/26/73-10/24/73	0	2	
FRHI0086	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	03/12/86-08/25/86	0	6	
FRHI0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/28/65-07/02/68	2	2	
FRHI0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/79-08/11/81	2	6	
FRHI0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/96-07/29/96	0	1	
FRHI0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/08/87-08/16/88	0	4	
FRHI0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
FRHI0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	0	1	
FRHI0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	0	1	
FRHI0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	0	1	
FRHI0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/73-10/05/73	0	19	
FRHI0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/63-07/12/63	0	1	
FRHI0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-09/06/63	0	15	
FRHI0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	0	1	
FRHI0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/73-10/10/74	1	8	
FRHI0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/02/67-02/02/67	0	1	
FRHI0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	0	1	
FRHI0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/96-09/03/97	1	6	
FRHI0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/73-10/05/73	0	12	
FRHI0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	0	1	
FRHI0028	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/65-10/31/74	9	18	
FRHI0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/73-10/05/73	0	19	
FRHI0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	17	64	
FRHI0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/68-03/27/69	0	2	
FRHI0035	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	9	116	
FRHI0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/73-08/25/92	19	72	
FRHI0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	16	64	
FRHI0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	17	72	
FRHI0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	16	67	
FRHI0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	17	67	
FRHI0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	0	1	
FRHI0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	10	164	
FRHI0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	21	191	
FRHI0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	17	83	
FRHI0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/77-08/23/77	0	1	
FRHI0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/74-10/10/74	0	7	
FRHI0050	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-09/06/63	0	16	
FRHI0051	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	17	66	
FRHI0053	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	1	4	
FRHI0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	25	127	
FRHI0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-07/27/76	0	7	
FRHI0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/91-11/06/92	1	36	
FRHI0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	17	78	
FRHI0061	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/26/92	17	75	
FRHI0063	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-08/11/66	2	15	
FRHI0069	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/91-11/06/92	1	34	
FRHI0073	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/68-07/01/68	0	1	
FRHI0078	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	1	4	
FRHI0079	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	1	4	
FRHI0081	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/73-07/20/73	0	1	
FRHI0082	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	1	4	
FRHI0084	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	1	4	
FRHI0085	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	17	90	
FRHI0088	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	1	4	
FRHI0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	1	4	
FRHI0091	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/20/81	1	4	
FRHI0092	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/68-04/08/97	28	24	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0094	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/20/81	1	4	
FRHI0095	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-09/06/63	0	14	
FRHI0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	35	241	
FRHI0099	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/80-09/04/80	0	2	
FRHI0101	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	1	4	
FRHI0103	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-09/05/80	1	3	
FRHI0104	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	1	4	
FRHI0105	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	1	4	
FRHI0106	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	1	4	
FRHI0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/77-08/20/77	0	1	
FRHI0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	1	4	
FRHI0110	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/79-08/19/81	2	9	
FRHI0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	1	4	
FRHI0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/20/81	1	4	
FRHI0028	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/24/73-07/10/73	0	3	
FRHI0043	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/18/69-04/18/73	3	28	
FRHI0092	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/16/96-10/16/96	0	1	
FRHI0013	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/28/63-08/30/63	0	3	
FRHI0050	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/28/63-09/06/63	0	5	
FRHI0063	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/21/63-08/28/63	0	5	
FRHI0095	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/21/63-08/28/63	0	5	
FRHI0092	No	00025	BAROMETRIC PRESSURE (MM OF HG)	04/30/96-04/08/97	0	11	
FRHI0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/79-08/03/79	0	1	
FRHI0005	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/08/87-08/16/88	0	4	
FRHI0043	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/01/75-08/27/76	0	10	
FRHI0057	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/04/50-04/18/73	23	86	
FRHI0058	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/02/70-08/27/76	5	11	
FRHI0092	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/01/70-04/08/97	26	22	
FRHI0096	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/04/50-01/04/72	21	77	
FRHI0110	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/03/79-08/03/79	0	1	
FRHI0002	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/14/79-08/11/81	2	8	
FRHI0005	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/08/87-08/16/88	0	4	
FRHI0053	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/19/81	1	4	
FRHI0078	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/19/81	1	4	
FRHI0079	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/20/81	1	4	
FRHI0082	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/19/81	1	4	
FRHI0084	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/19/81	1	4	
FRHI0088	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/19/81	1	4	
FRHI0090	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/19/81	1	4	
FRHI0091	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/20/81	1	4	
FRHI0092	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-04/08/97	17	16	
FRHI0094	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/20/81	1	4	
FRHI0099	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/22/80-09/04/80	0	2	
FRHI0100	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/27/81-08/27/81	0	1	
FRHI0101	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/19/81	1	4	
FRHI0103	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-09/05/80	1	3	
FRHI0104	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/20/81	1	4	
FRHI0105	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/20/81	1	4	
FRHI0106	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/19/81	1	4	
FRHI0108	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/20/81	1	4	
FRHI0109	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/26/81-08/26/81	0	1	
FRHI0110	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/14/79-08/19/81	2	10	
FRHI0111	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/30/79-08/20/81	1	4	
FRHI0112	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/26/81-08/26/81	0	1	
FRHI0113	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/29/79-08/20/81	1	4	
FRHI0022	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/24/73-04/24/73	0	1	
FRHI0046	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	9	115	
FRHI0060	No	00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	9	128	
FRHI0032	No	00032	CLOUD COVER (PERCENT)	06/03/75-06/26/79	4	4	
FRHI0036	No	00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	1	2	
FRHI0038	No	00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	1	2	
FRHI0039	No	00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	1	2	
FRHI0040	No	00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	1	2	
FRHI0041	No	00032	CLOUD COVER (PERCENT)	06/03/75-06/26/79	4	5	
FRHI0046	No	00032	CLOUD COVER (PERCENT)	06/03/75-06/26/79	4	4	
FRHI0051	No	00032	CLOUD COVER (PERCENT)	06/04/75-06/27/79	4	4	
FRHI0060	No	00032	CLOUD COVER (PERCENT)	06/04/75-06/27/79	4	4	
FRHI0061	No	00032	CLOUD COVER (PERCENT)	06/21/78-06/21/78	0	1	
FRHI0085	No	00032	CLOUD COVER (PERCENT)	06/20/78-06/20/78	0	1	
FRHI0021	No	00035	WIND VELOCITY (MILES PER HOUR)	06/18/96-09/03/97	1	6	
FRHI0021	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/18/96-09/03/97	1	6	
FRHI0043	No	00049	SURFACE AREA IN SQUARE MILES	10/01/57-09/21/58	0	35	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0045	No	00057	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	19	254	A
FRHI0096	No	00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	15	243	A
FRHI0024	No	00058	FLOW, RATE GALLONS/MIN	02/07/49-02/07/49	0	1	
FRHI0058	No	00058	FLOW, RATE GALLONS/MIN	12/02/70-12/02/70	0	1	
FRHI0059	No	00058	FLOW, RATE GALLONS/MIN	11/10/88-08/29/89	0	3	
FRHI0092	No	00058	FLOW, RATE GALLONS/MIN	12/01/70-12/01/70	0	1	
FRHI0100	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/27/81-08/27/81	0	1	
FRHI0109	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/26/81-08/26/81	0	1	
FRHI0112	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/26/81-08/26/81	0	1	
FRHI0001	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/28/65-07/02/68	2	2	
FRHI0018	No	00060	FLOW, STREAM, MEAN DAILY CFS	02/02/67-02/02/67	0	1	
FRHI0028	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/16/65-04/10/74	8	13	
FRHI0033	No	00060	FLOW, STREAM, MEAN DAILY CFS	03/27/69-03/27/69	0	1	
FRHI0043	No	00060	FLOW, STREAM, MEAN DAILY CFS	03/27/69-03/27/69	0	1	
FRHI0045	No	00060	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	19	254	A
FRHI0057	No	00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	36	135	S
FRHI0063	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/19/63-08/30/63	0	10	
FRHI0073	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/01/68-07/01/68	0	1	
FRHI0092	No	00060	FLOW, STREAM, MEAN DAILY CFS	07/02/68-07/02/68	0	1	
FRHI0095	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/19/63-09/06/63	0	14	
FRHI0096	No	00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	45	383	T,A,S
FRHI0002	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/79-08/11/81	2	6	
FRHI0005	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/08/87-08/16/88	0	4	
FRHI0028	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/10/74-10/31/74	0	2	
FRHI0035	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	5	72	
FRHI0045	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	8	103	
FRHI0053	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	1	4	
FRHI0057	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	25	111	
FRHI0058	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/06/75-08/27/76	0	10	
FRHI0078	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	1	4	
FRHI0079	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	1	4	
FRHI0082	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	1	4	
FRHI0084	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	1	4	
FRHI0088	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	1	4	
FRHI0090	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	1	4	
FRHI0091	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/20/81	1	4	
FRHI0092	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/01/75-04/08/97	21	22	
FRHI0094	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/20/81	1	4	
FRHI0096	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	34	218	
FRHI0099	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/22/80-09/04/80	0	2	
FRHI0101	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	1	4	
FRHI0103	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-09/05/80	1	3	
FRHI0104	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	1	4	
FRHI0105	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	1	4	
FRHI0106	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	1	4	
FRHI0108	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	1	4	
FRHI0110	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/79-08/19/81	2	9	
FRHI0111	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	1	4	
FRHI0113	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/20/81	1	4	
FRHI0045	No	00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	18	108	
FRHI0057	No	00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	11	93	
FRHI0092	No	00065	STAGE, STREAM (FEET)	04/30/96-04/08/97	0	11	
FRHI0096	No	00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	19	186	
FRHI0018	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/02/67-02/02/67	0	1	
FRHI0028	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/16/65-01/24/73	7	11	
FRHI0043	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/17/70-08/27/76	6	17	
FRHI0045	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/75-12/13/77	2	18	
FRHI0057	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	15	60	
FRHI0058	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/06/75-08/27/76	0	8	
FRHI0092	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/01/75-07/27/76	0	8	
FRHI0096	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	15	66	
FRHI0011	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/24/73-07/28/73	0	13	
FRHI0022	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/24/73-07/28/73	0	8	
FRHI0030	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/24/73-07/28/73	0	13	
FRHI0016	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/19/73-10/10/74	1	8	
FRHI0032	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	17	15	
FRHI0036	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/19/73-10/10/74	1	8	
FRHI0041	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	17	15	
FRHI0045	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	4	46	
FRHI0046	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	17	29	
FRHI0048	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/26/74-10/10/74	0	7	
FRHI0051	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	17	16	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0057	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	4	47	
FRHI0060	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	17	27	
FRHI0061	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/90-08/26/92	2	2	
FRHI0081	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/20/73-07/20/73	0	1	
FRHI0096	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	4	49	
FRHI0011	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/24/73-10/05/73	0	3	
FRHI0022	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/24/73-10/05/73	0	3	
FRHI0030	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/24/73-10/05/73	0	3	
FRHI0032	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/75-06/26/79	4	3	
FRHI0036	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	1	2	
FRHI0038	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	1	2	
FRHI0039	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	1	2	
FRHI0040	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	1	2	
FRHI0041	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/75-06/26/79	4	6	
FRHI0046	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/75-06/26/79	4	4	
FRHI0051	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/04/75-06/27/79	4	4	
FRHI0060	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/04/75-06/27/79	4	4	
FRHI0061	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/27/79	1	2	
FRHI0085	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/20/78-06/26/79	1	2	
FRHI0001	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/28/65-07/02/68	2	2	
FRHI0012	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/12/63-07/12/63	0	1	
FRHI0016	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/19/73-10/10/74	1	8	
FRHI0018	No	00080	COLOR (PLATINUM-COBALT UNITS)	02/02/67-02/02/67	0	1	
FRHI0028	No	00080	COLOR (PLATINUM-COBALT UNITS)	01/24/73-01/24/73	0	1	
FRHI0032	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	17	15	
FRHI0033	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/02/68-03/27/69	0	2	
FRHI0036	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/19/73-10/10/74	1	8	
FRHI0041	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	17	15	
FRHI0043	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/01/57-06/25/73	15	67	
FRHI0046	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	17	28	
FRHI0048	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/26/74-10/10/74	0	7	
FRHI0051	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	17	15	
FRHI0057	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-12/18/72	10	42	
FRHI0058	No	00080	COLOR (PLATINUM-COBALT UNITS)	12/02/70-12/02/70	0	1	
FRHI0060	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	17	27	
FRHI0061	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/15/90-08/26/92	2	2	
FRHI0063	No	00080	COLOR (PLATINUM-COBALT UNITS)	08/11/66-08/11/66	0	1	
FRHI0073	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/01/68-07/01/68	0	1	
FRHI0081	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/20/73-07/20/73	0	1	
FRHI0092	No	00080	COLOR (PLATINUM-COBALT UNITS)	07/02/68-12/01/70	2	2	
FRHI0096	No	00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-03/27/74	11	43	
FRHI0057	No	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	07/07/71-01/04/72	0	2	
FRHI0096	No	00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	01/04/72-01/04/72	0	1	
FRHI0003	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/29/96-07/29/96	0	1	
FRHI0006	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
FRHI0007	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	0	1	
FRHI0009	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	0	1	
FRHI0010	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	0	1	
FRHI0011	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/28/73-10/05/73	0	12	
FRHI0015	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	0	1	
FRHI0016	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/73-10/10/74	1	8	
FRHI0020	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/05/78-07/05/78	0	1	
FRHI0021	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/96-09/03/97	1	6	
FRHI0022	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/28/73-10/05/73	0	9	
FRHI0023	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/77-08/22/77	0	1	
FRHI0030	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/28/73-10/05/73	0	12	
FRHI0032	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	17	64	
FRHI0036	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/73-08/25/92	19	72	
FRHI0038	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	16	64	
FRHI0039	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	17	72	
FRHI0040	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	16	67	
FRHI0041	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	17	67	
FRHI0042	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/77-08/22/77	0	1	
FRHI0045	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	8	103	
FRHI0046	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	17	83	
FRHI0047	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/77-08/23/77	0	1	
FRHI0048	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/26/74-10/10/74	0	7	
FRHI0051	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	17	66	
FRHI0057	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/72-04/18/73	0	8	
FRHI0060	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	17	78	
FRHI0061	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/26/92	17	75	
FRHI0081	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	07/20/73-07/20/73	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0085	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	17	90	
FRHI0096	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	8	104	
FRHI0107	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/77-08/20/77	0	1	
FRHI0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/28/65-07/02/68	2	2	
FRHI0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/79-08/11/81	2	6	
FRHI0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/08/87-08/16/88	0	4	
FRHI0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/73-10/05/73	0	19	
FRHI0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/63-07/12/63	0	1	
FRHI0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	0	11	
FRHI0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/02/67-02/02/67	0	1	
FRHI0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/73-10/05/73	0	12	
FRHI0024	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/07/49-02/07/49	0	1	
FRHI0028	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/65-10/31/74	9	18	
FRHI0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/73-10/05/73	0	19	
FRHI0032	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/25/92	2	3	
FRHI0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-03/27/69	0	2	
FRHI0035	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	9	112	
FRHI0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/90-07/30/91	0	2	
FRHI0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	18	291	
FRHI0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	22	248	T,A
FRHI0046	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/90-08/25/92	2	6	
FRHI0050	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	0	12	
FRHI0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/25/92	2	3	
FRHI0053	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	1	4	
FRHI0055	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	0	1	
FRHI0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	15	145	
FRHI0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/70-08/27/76	5	10	
FRHI0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/25/92	2	6	
FRHI0061	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/26/92	2	2	
FRHI0062	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	0	1	
FRHI0063	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	0	10	
FRHI0073	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/68-07/01/68	0	1	
FRHI0074	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	0	1	
FRHI0078	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	1	4	
FRHI0079	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	1	4	
FRHI0080	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	0	1	
FRHI0082	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	1	4	
FRHI0084	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	1	4	
FRHI0088	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	1	4	
FRHI0090	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	1	4	
FRHI0091	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/20/81	1	4	
FRHI0092	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-04/08/97	28	26	S
FRHI0094	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/20/81	1	4	
FRHI0095	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	0	10	
FRHI0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	23	257	T,A
FRHI0099	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/22/80-09/04/80	0	2	
FRHI0100	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/81-08/27/81	0	1	
FRHI0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	1	4	
FRHI0103	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-09/05/80	1	3	
FRHI0104	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	1	4	
FRHI0105	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	1	4	
FRHI0106	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	1	4	
FRHI0108	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	1	4	
FRHI0109	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/81-08/26/81	0	1	
FRHI0110	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/79-08/19/81	2	9	
FRHI0111	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	1	4	
FRHI0112	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/81-08/26/81	0	1	
FRHI0113	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/20/81	1	4	
FRHI0003	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/29/96-07/29/96	0	1	
FRHI0007	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	0	1	
FRHI0009	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	0	1	
FRHI0010	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	0	1	
FRHI0015	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	0	1	
FRHI0021	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/18/96-09/03/97	1	6	
FRHI0032	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	17	64	
FRHI0036	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	17	64	
FRHI0038	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	16	64	
FRHI0039	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	17	72	
FRHI0040	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	16	67	
FRHI0041	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	17	67	
FRHI0046	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	17	82	
FRHI0051	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	17	66	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0060	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	17	78	
FRHI0061	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/26/92	17	75	
FRHI0085	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	17	90	
FRHI0005	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/16/88	0	3	
FRHI0011	No	00300	OXYGEN, DISSOLVED MG/L	04/24/73-10/05/73	0	16	
FRHI0013	No	00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/30/63	0	11	
FRHI0022	No	00300	OXYGEN, DISSOLVED MG/L	04/24/73-10/05/73	0	9	
FRHI0028	No	00300	OXYGEN, DISSOLVED MG/L	07/16/65-10/31/74	9	14	
FRHI0030	No	00300	OXYGEN, DISSOLVED MG/L	04/24/73-10/05/73	0	16	
FRHI0035	No	00300	OXYGEN, DISSOLVED MG/L	01/27/88-04/13/89	1	16	
FRHI0043	No	00300	OXYGEN, DISSOLVED MG/L	07/31/69-05/28/76	6	42	
FRHI0045	No	00300	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	21	160	A
FRHI0050	No	00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/30/63	0	12	
FRHI0057	No	00300	OXYGEN, DISSOLVED MG/L	06/19/62-06/14/88	25	94	S
FRHI0058	No	00300	OXYGEN, DISSOLVED MG/L	03/29/76-05/28/76	0	2	
FRHI0063	No	00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/11/66	2	11	
FRHI0092	No	00300	OXYGEN, DISSOLVED MG/L	12/05/75-04/08/97	21	16	
FRHI0095	No	00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/30/63	0	10	
FRHI0096	No	00300	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	35	208	T,A,S
FRHI0043	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/31/69-07/31/69	0	1	
FRHI0018	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/02/67-02/02/67	0	1	
FRHI0028	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/16/65-09/01/65	0	10	
FRHI0043	No	00310	BOD, 5 DAY, 20 DEG C MG/L	07/31/69-12/19/73	4	5	
FRHI0057	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-08/02/72	10	39	
FRHI0096	No	00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-04/03/72	9	40	
FRHI0001	No	00400	PH (STANDARD UNITS)	10/28/65-07/02/68	2	2	
FRHI0002	No	00400	PH (STANDARD UNITS)	06/14/79-08/11/81	2	6	
FRHI0003	No	00400	PH (STANDARD UNITS)	07/29/96-07/29/96	0	1	
FRHI0005	No	00400	PH (STANDARD UNITS)	04/07/88-08/16/88	0	3	
FRHI0006	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
FRHI0007	No	00400	PH (STANDARD UNITS)	07/23/96-07/23/96	0	1	
FRHI0009	No	00400	PH (STANDARD UNITS)	07/23/96-07/23/96	0	1	
FRHI0010	No	00400	PH (STANDARD UNITS)	07/23/96-07/23/96	0	1	
FRHI0011	No	00400	PH (STANDARD UNITS)	04/24/73-10/05/73	0	19	
FRHI0012	No	00400	PH (STANDARD UNITS)	07/12/63-07/12/63	0	1	
FRHI0013	No	00400	PH (STANDARD UNITS)	08/26/63-08/30/63	0	4	
FRHI0015	No	00400	PH (STANDARD UNITS)	07/23/96-07/23/96	0	1	
FRHI0016	No	00400	PH (STANDARD UNITS)	04/26/74-10/10/74	0	7	
FRHI0018	No	00400	PH (STANDARD UNITS)	02/02/67-02/02/67	0	1	
FRHI0020	No	00400	PH (STANDARD UNITS)	07/05/78-07/05/78	0	1	
FRHI0021	No	00400	PH (STANDARD UNITS)	06/18/96-09/03/97	1	6	
FRHI0022	No	00400	PH (STANDARD UNITS)	04/24/73-10/05/73	0	12	
FRHI0023	No	00400	PH (STANDARD UNITS)	08/22/77-08/22/77	0	1	
FRHI0024	No	00400	PH (STANDARD UNITS)	02/07/49-02/07/49	0	1	
FRHI0028	No	00400	PH (STANDARD UNITS)	07/16/65-10/31/74	9	18	
FRHI0030	No	00400	PH (STANDARD UNITS)	04/24/73-10/05/73	0	19	
FRHI0032	No	00400	PH (STANDARD UNITS)	06/03/75-08/25/92	17	59	
FRHI0033	No	00400	PH (STANDARD UNITS)	07/02/68-03/27/69	0	2	
FRHI0035	No	00400	PH (STANDARD UNITS)	01/27/88-07/14/97	9	112	
FRHI0036	No	00400	PH (STANDARD UNITS)	04/26/74-08/25/92	18	63	
FRHI0038	No	00400	PH (STANDARD UNITS)	06/04/75-07/30/91	16	56	
FRHI0039	No	00400	PH (STANDARD UNITS)	06/04/75-08/25/92	17	64	
FRHI0040	No	00400	PH (STANDARD UNITS)	06/04/75-07/30/91	16	58	
FRHI0041	No	00400	PH (STANDARD UNITS)	06/03/75-08/25/92	17	59	
FRHI0042	No	00400	PH (STANDARD UNITS)	08/22/77-08/22/77	0	1	
FRHI0043	No	00400	PH (STANDARD UNITS)	10/01/57-04/29/76	18	246	
FRHI0045	No	00400	PH (STANDARD UNITS)	12/05/75-07/08/97	21	187	A
FRHI0046	No	00400	PH (STANDARD UNITS)	06/03/75-08/25/92	17	72	
FRHI0047	No	00400	PH (STANDARD UNITS)	08/23/77-08/23/77	0	1	
FRHI0048	No	00400	PH (STANDARD UNITS)	04/26/74-10/10/74	0	7	
FRHI0050	No	00400	PH (STANDARD UNITS)	08/26/63-08/30/63	0	4	
FRHI0051	No	00400	PH (STANDARD UNITS)	06/04/75-08/25/92	17	59	
FRHI0053	No	00400	PH (STANDARD UNITS)	08/30/79-08/19/81	1	4	
FRHI0057	No	00400	PH (STANDARD UNITS)	06/19/62-06/14/88	25	127	S
FRHI0058	No	00400	PH (STANDARD UNITS)	12/02/70-03/29/76	5	5	
FRHI0060	No	00400	PH (STANDARD UNITS)	06/04/75-08/25/92	17	70	
FRHI0061	No	00400	PH (STANDARD UNITS)	06/04/75-08/26/92	17	68	
FRHI0063	No	00400	PH (STANDARD UNITS)	08/27/63-08/11/66	2	5	
FRHI0073	No	00400	PH (STANDARD UNITS)	07/01/68-07/01/68	0	1	
FRHI0078	No	00400	PH (STANDARD UNITS)	08/30/79-08/19/81	1	4	
FRHI0079	No	00400	PH (STANDARD UNITS)	08/30/79-08/20/81	1	4	
FRHI0082	No	00400	PH (STANDARD UNITS)	08/30/79-08/19/81	1	4	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0084	No	00400	PH (STANDARD UNITS)	08/29/79-08/19/81	1	4	
FRHI0085	No	00400	PH (STANDARD UNITS)	06/03/75-08/25/92	17	77	
FRHI0088	No	00400	PH (STANDARD UNITS)	08/30/79-08/19/81	1	4	
FRHI0090	No	00400	PH (STANDARD UNITS)	08/29/79-08/19/81	1	4	
FRHI0091	No	00400	PH (STANDARD UNITS)	08/29/79-08/20/81	1	4	
FRHI0092	No	00400	PH (STANDARD UNITS)	07/02/68-04/08/97	28	21	
FRHI0094	No	00400	PH (STANDARD UNITS)	08/29/79-08/20/81	1	4	
FRHI0095	No	00400	PH (STANDARD UNITS)	08/27/63-08/30/63	0	4	
FRHI0096	No	00400	PH (STANDARD UNITS)	06/19/62-07/08/97	35	240	T,A,S
FRHI0099	No	00400	PH (STANDARD UNITS)	04/22/80-09/04/80	0	2	
FRHI0100	No	00400	PH (STANDARD UNITS)	08/27/81-08/27/81	0	1	
FRHI0101	No	00400	PH (STANDARD UNITS)	08/29/79-08/19/81	1	4	
FRHI0103	No	00400	PH (STANDARD UNITS)	08/30/79-09/05/80	1	3	
FRHI0104	No	00400	PH (STANDARD UNITS)	08/30/79-08/20/81	1	4	
FRHI0105	No	00400	PH (STANDARD UNITS)	08/30/79-08/20/81	1	4	
FRHI0106	No	00400	PH (STANDARD UNITS)	08/29/79-08/19/81	1	4	
FRHI0107	No	00400	PH (STANDARD UNITS)	08/20/77-08/20/77	0	1	
FRHI0108	No	00400	PH (STANDARD UNITS)	08/30/79-08/20/81	1	4	
FRHI0109	No	00400	PH (STANDARD UNITS)	08/26/81-08/26/81	0	1	
FRHI0110	No	00400	PH (STANDARD UNITS)	06/14/79-08/19/81	2	9	
FRHI0111	No	00400	PH (STANDARD UNITS)	08/30/79-08/20/81	1	4	
FRHI0112	No	00400	PH (STANDARD UNITS)	08/26/81-08/26/81	0	1	
FRHI0113	No	00400	PH (STANDARD UNITS)	08/29/79-08/20/81	1	4	
FRHI0002	No	00403	PH, LAB, STANDARD UNITS SU	03/24/81-08/11/81	0	2	
FRHI0005	No	00403	PH, LAB, STANDARD UNITS SU	12/08/87-04/07/88	0	2	
FRHI0013	No	00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	0	11	
FRHI0016	No	00403	PH, LAB, STANDARD UNITS SU	07/19/73-10/10/74	1	8	
FRHI0032	No	00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	17	15	
FRHI0035	No	00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	9	114	
FRHI0036	No	00403	PH, LAB, STANDARD UNITS SU	07/19/73-10/10/74	1	8	
FRHI0041	No	00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	17	15	
FRHI0045	No	00403	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	22	251	T,A
FRHI0046	No	00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	17	29	
FRHI0048	No	00403	PH, LAB, STANDARD UNITS SU	04/26/74-10/10/74	0	7	
FRHI0050	No	00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	0	12	
FRHI0051	No	00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	17	16	
FRHI0053	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0054	Yes	00403	PH, LAB, STANDARD UNITS SU	10/27/88-07/01/93	4	21	
FRHI0055	Yes	00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	0	1	
FRHI0057	No	00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	38	225	T,S
FRHI0059	No	00403	PH, LAB, STANDARD UNITS SU	11/28/89-07/01/93	3	48	
FRHI0060	No	00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	17	27	
FRHI0061	No	00403	PH, LAB, STANDARD UNITS SU	08/15/90-08/26/92	2	2	
FRHI0062	No	00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	0	1	
FRHI0063	No	00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	0	10	
FRHI0069	Yes	00403	PH, LAB, STANDARD UNITS SU	06/21/91-11/18/94	3	44	
FRHI0071	Yes	00403	PH, LAB, STANDARD UNITS SU	04/04/94-04/04/94	0	1	
FRHI0074	Yes	00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	0	1	
FRHI0076	Yes	00403	PH, LAB, STANDARD UNITS SU	04/04/94-12/19/94	0	4	
FRHI0078	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0079	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0080	Yes	00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	0	1	
FRHI0081	No	00403	PH, LAB, STANDARD UNITS SU	07/20/73-07/20/73	0	1	
FRHI0082	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0084	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0088	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0090	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0091	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0092	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-04/08/97	15	12	
FRHI0094	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0095	No	00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	0	10	
FRHI0096	No	00403	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	47	343	T,A,S
FRHI0100	No	00403	PH, LAB, STANDARD UNITS SU	08/27/81-08/27/81	0	1	
FRHI0101	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0104	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0105	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0106	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
FRHI0108	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0109	No	00403	PH, LAB, STANDARD UNITS SU	08/26/81-08/26/81	0	1	
FRHI0110	No	00403	PH, LAB, STANDARD UNITS SU	03/24/81-08/19/81	0	2	
FRHI0111	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0112	No	00403	PH, LAB, STANDARD UNITS SU	08/26/81-08/26/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0113	No	00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	0	1	
FRHI0024	No	00405	CARBON DIOXIDE (MG/L AS CO2)	02/07/49-02/07/49	0	1	
FRHI0043	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/24/72-12/19/73	1	9	
FRHI0058	No	00405	CARBON DIOXIDE (MG/L AS CO2)	12/02/70-12/02/70	0	1	
FRHI0079	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-09/05/80	1	3	
FRHI0084	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/19/81	1	4	
FRHI0088	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-09/04/80	1	3	
FRHI0091	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/20/81	1	4	
FRHI0092	No	00405	CARBON DIOXIDE (MG/L AS CO2)	12/01/70-08/19/81	10	5	
FRHI0101	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/19/81	1	4	
FRHI0104	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	1	4	
FRHI0105	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	1	4	
FRHI0106	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/19/81	1	4	
FRHI0108	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	1	4	
FRHI0109	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/26/81-08/26/81	0	1	
FRHI0110	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/19/81	1	3	
FRHI0111	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	1	4	
FRHI0112	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/26/81-08/26/81	0	1	
FRHI0113	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/20/81	1	4	
FRHI0054	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/18/89-02/10/93	3	4	
FRHI0059	No	00406	PH, FIELD, STANDARD UNITS SU	07/03/91-02/10/93	1	38	
FRHI0069	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/03/91-11/06/92	1	34	
FRHI0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/28/65-07/02/68	2	2	
FRHI0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/79-08/11/81	2	6	
FRHI0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/08/87-08/16/88	0	4	
FRHI0006	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/78-07/05/78	0	1	
FRHI0011	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/73-10/05/73	0	19	
FRHI0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/12/63-07/12/63	0	1	
FRHI0013	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	0	11	
FRHI0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0018	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/02/67-02/02/67	0	1	
FRHI0020	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/78-07/05/78	0	1	
FRHI0021	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/96-09/03/97	1	6	
FRHI0022	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/73-10/05/73	0	12	
FRHI0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/22/77-08/22/77	0	1	
FRHI0024	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/07/49-02/07/49	0	1	
FRHI0028	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/65-10/31/74	9	18	
FRHI0030	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/73-10/05/73	0	19	
FRHI0032	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/02/68-03/27/69	0	2	
FRHI0035	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	9	111	
FRHI0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0041	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0042	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/22/77-08/22/77	0	1	
FRHI0043	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/67-08/27/76	9	51	
FRHI0045	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	22	251	T,A
FRHI0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	28	
FRHI0047	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/77-08/23/77	0	1	
FRHI0048	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/74-10/10/74	0	7	
FRHI0051	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	17	16	
FRHI0057	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	38	193	T,S
FRHI0058	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/70-08/27/76	5	11	
FRHI0060	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	17	27	
FRHI0061	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/90-08/26/92	2	2	
FRHI0073	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/68-07/01/68	0	1	
FRHI0079	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	4	
FRHI0081	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/73-07/20/73	0	1	
FRHI0084	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	4	
FRHI0088	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	4	
FRHI0091	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	4	
FRHI0092	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/02/68-08/12/96	28	18	
FRHI0096	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	47	312	T,A,S
FRHI0101	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	4	
FRHI0104	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	4	
FRHI0105	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	4	
FRHI0106	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	4	
FRHI0107	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/20/77-08/20/77	0	1	
FRHI0108	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	4	
FRHI0109	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0110	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/79-08/19/81	2	9	
FRHI0111	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	4	
FRHI0112	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0113	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	4	
FRHI0043	No	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	06/25/73-06/25/73	0	1	
FRHI0002	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/14/79-08/03/79	0	2	
FRHI0016	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0018	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	02/02/67-02/02/67	0	1	
FRHI0028	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/16/65-07/10/73	7	12	
FRHI0032	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0036	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0041	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0043	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/31/69-12/19/73	4	31	
FRHI0046	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	28	
FRHI0048	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/26/74-10/10/74	0	7	
FRHI0051	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	17	16	
FRHI0053	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	4	
FRHI0054	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0057	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/19/72-01/11/73	0	5	
FRHI0059	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/28/89-07/01/93	3	48	
FRHI0060	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	17	27	
FRHI0061	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/15/90-08/26/92	2	2	
FRHI0062	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0069	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/21/91-11/18/94	3	44	
FRHI0071	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/04/94-04/04/94	0	1	
FRHI0074	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0076	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/04/94-12/19/94	0	4	
FRHI0078	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	4	
FRHI0079	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	4	
FRHI0080	Yes	00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0081	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/20/73-07/20/73	0	1	
FRHI0082	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	4	
FRHI0084	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-09/05/80	1	2	
FRHI0088	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	4	
FRHI0090	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	4	
FRHI0091	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	4	
FRHI0092	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	4	
FRHI0094	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	4	
FRHI0099	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/22/80-09/04/80	0	2	
FRHI0100	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/27/81-08/27/81	0	1	
FRHI0101	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-09/04/80	1	2	
FRHI0103	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-09/05/80	1	3	
FRHI0104	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-09/05/80	1	3	
FRHI0105	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0106	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	4	
FRHI0108	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	3	
FRHI0109	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0110	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/14/79-03/24/81	1	4	
FRHI0111	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	3	
FRHI0112	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0113	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	4	
FRHI0013	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	0	11	
FRHI0016	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0028	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	02/21/74-06/12/74	0	4	
FRHI0032	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0036	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0041	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0043	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	11/01/75-06/30/76	0	7	
FRHI0045	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/24/75-04/13/83	7	48	
FRHI0046	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	17	28	
FRHI0048	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/26/74-10/10/74	0	7	
FRHI0050	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	0	12	
FRHI0051	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	17	16	
FRHI0057	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-04/13/83	33	100	S
FRHI0058	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	11/06/75-06/30/76	0	7	
FRHI0060	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	17	27	
FRHI0061	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/15/90-08/26/92	2	2	
FRHI0063	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0081	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	07/20/73-07/20/73	0	1	
FRHI0092	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	11/01/75-06/30/76	0	7	
FRHI0095	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0096	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-09/26/85	35	108	S
FRHI0013	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	0	11	
FRHI0016	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	07/19/73-09/12/74	1	4	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0032	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0036	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0041	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0043	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/18/69-08/27/76	7	32	
FRHI0045	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/24/75-12/13/77	2	20	
FRHI0046	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	17	28	
FRHI0048	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/26/74-10/10/74	0	7	
FRHI0050	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	0	12	
FRHI0051	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	17	16	
FRHI0057	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	27	103	S
FRHI0058	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	11/06/75-08/27/76	0	10	
FRHI0060	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	17	27	
FRHI0061	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/15/90-08/26/92	2	2	
FRHI0063	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0081	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	07/20/73-07/20/73	0	1	
FRHI0092	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	11/01/75-07/27/76	0	9	
FRHI0095	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0096	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	27	106	S
FRHI0001	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/28/65-07/02/68	2	2	
FRHI0012	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/12/63-07/12/63	0	1	
FRHI0024	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/07/49-02/07/49	0	1	
FRHI0033	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/02/68-03/27/69	0	2	
FRHI0043	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	16	178	
FRHI0058	No	00440	BICARBONATE ION (MG/L AS HCO3)	12/02/70-12/02/70	0	1	
FRHI0073	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/01/68-07/01/68	0	1	
FRHI0079	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-09/05/80	1	3	
FRHI0084	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/19/81	1	4	
FRHI0088	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-09/04/80	1	3	
FRHI0091	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/20/81	1	4	
FRHI0092	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/02/68-08/19/81	13	6	
FRHI0101	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/19/81	1	4	
FRHI0104	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	1	4	
FRHI0105	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	1	4	
FRHI0106	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/19/81	1	4	
FRHI0108	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	1	4	
FRHI0109	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/26/81-08/26/81	0	1	
FRHI0110	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/19/81	1	3	
FRHI0111	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	1	4	
FRHI0112	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/26/81-08/26/81	0	1	
FRHI0113	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/20/81	1	4	
FRHI0001	No	00445	CARBONATE ION (MG/L AS CO3)	10/28/65-07/02/68	2	2	
FRHI0012	No	00445	CARBONATE ION (MG/L AS CO3)	07/12/63-07/12/63	0	1	
FRHI0024	No	00445	CARBONATE ION (MG/L AS CO3)	02/07/49-02/07/49	0	1	
FRHI0033	No	00445	CARBONATE ION (MG/L AS CO3)	07/02/68-07/02/68	0	1	
FRHI0043	No	00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	7	80	
FRHI0058	No	00445	CARBONATE ION (MG/L AS CO3)	12/02/70-12/02/70	0	1	
FRHI0073	No	00445	CARBONATE ION (MG/L AS CO3)	07/01/68-07/01/68	0	1	
FRHI0084	No	00445	CARBONATE ION (MG/L AS CO3)	04/22/80-08/19/81	1	2	
FRHI0092	No	00445	CARBONATE ION (MG/L AS CO3)	07/02/68-12/01/70	2	2	
FRHI0101	No	00445	CARBONATE ION (MG/L AS CO3)	08/19/81-08/19/81	0	1	
FRHI0104	No	00445	CARBONATE ION (MG/L AS CO3)	08/20/81-08/20/81	0	1	
FRHI0105	No	00445	CARBONATE ION (MG/L AS CO3)	04/23/80-09/04/80	0	2	
FRHI0108	No	00445	CARBONATE ION (MG/L AS CO3)	09/04/80-09/04/80	0	1	
FRHI0110	No	00445	CARBONATE ION (MG/L AS CO3)	04/23/80-08/19/81	1	3	
FRHI0018	No	00500	RESIDUE, TOTAL (MG/L)	02/02/67-02/02/67	0	1	
FRHI0028	No	00500	RESIDUE, TOTAL (MG/L)	02/21/74-10/31/74	0	4	
FRHI0032	No	00500	RESIDUE, TOTAL (MG/L)	07/30/75-07/30/75	0	1	
FRHI0046	No	00500	RESIDUE, TOTAL (MG/L)	07/30/75-06/20/78	2	2	
FRHI0057	No	00500	RESIDUE, TOTAL (MG/L)	06/19/62-08/02/72	10	41	
FRHI0060	No	00500	RESIDUE, TOTAL (MG/L)	07/30/75-06/21/78	2	2	
FRHI0096	No	00500	RESIDUE, TOTAL (MG/L)	06/19/62-04/03/72	9	42	
FRHI0005	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/08/87-08/16/88	0	4	
FRHI0018	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/02/67-02/02/67	0	1	
FRHI0028	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/21/74-05/08/74	0	3	
FRHI0035	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	6	83	
FRHI0043	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	03/08/72-02/27/76	3	5	
FRHI0045	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	22	212	T,A
FRHI0046	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/20/78-06/20/78	0	1	
FRHI0057	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	127	
FRHI0058	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/06/75-02/27/76	0	4	
FRHI0060	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/78-06/21/78	0	1	
FRHI0092	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/01/75-02/27/76	0	4	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0096	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	24	217	T,A
FRHI0005	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/08/87-08/16/88	0	4	
FRHI0016	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/17/74-08/22/74	0	2	
FRHI0018	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/02/67-02/02/67	0	1	
FRHI0021	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/18/96-09/03/97	1	6	
FRHI0028	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/74-10/31/74	0	4	
FRHI0032	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	17	15	
FRHI0035	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	9	93	
FRHI0036	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/17/74-10/10/74	0	4	
FRHI0041	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	17	16	
FRHI0043	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/08/72-03/12/73	1	3	
FRHI0045	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	17	94	
FRHI0046	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	17	29	
FRHI0048	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/17/74-10/10/74	0	3	
FRHI0051	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	17	15	
FRHI0057	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-06/14/88	25	47	S
FRHI0060	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	17	27	
FRHI0061	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/15/90-08/26/92	2	2	
FRHI0063	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/11/66-08/11/66	0	1	
FRHI0096	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	35	138	T,S
FRHI0096	No	00556	OIL & GREASE (FREON EXTR.-GRAV METH) TOT,REC,MG/L	07/01/80-07/01/80	0	1	
FRHI0043	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/16/70-12/19/73	3	7	
FRHI0043	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/24/69-06/25/73	3	8	
FRHI0092	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/30/96-04/08/97	0	11	
FRHI0008	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0011	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/73-10/05/73	0	19	
FRHI0017	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0019	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0021	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/18/96-09/03/97	1	6	
FRHI0022	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/73-10/05/73	0	12	
FRHI0030	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/73-10/05/73	0	19	
FRHI0031	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0032	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/16/89-08/25/92	3	4	
FRHI0035	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	9	115	
FRHI0041	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	14	12	
FRHI0043	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/18/72-08/27/76	3	14	
FRHI0045	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	22	250	T,A
FRHI0046	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	14	22	
FRHI0051	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	14	13	
FRHI0057	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	15	142	
FRHI0058	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/06/75-08/27/76	0	10	
FRHI0060	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	14	22	
FRHI0061	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/15/90-08/26/92	2	2	
FRHI0092	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/01/75-07/27/76	0	9	
FRHI0096	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	24	261	T,A
FRHI0043	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/25/73-06/25/73	0	1	
FRHI0092	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/30/96-04/08/97	0	11	
FRHI0008	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0017	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0019	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0031	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/18/73-06/22/74	0	7	
FRHI0035	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	9	115	
FRHI0043	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/14/76-08/27/76	0	8	
FRHI0045	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	22	249	T,A
FRHI0057	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	13	139	
FRHI0058	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/30/76-08/27/76	0	8	
FRHI0092	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/14/76-07/27/76	0	7	
FRHI0096	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	24	260	T,A
FRHI0024	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/07/49-02/07/49	0	1	
FRHI0043	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/25/73-06/25/73	0	1	
FRHI0058	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	12/02/70-12/02/70	0	1	
FRHI0092	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	12/01/70-12/01/70	0	1	
FRHI0008	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0017	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0019	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0021	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/18/96-09/03/97	1	5	
FRHI0031	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/27/73-05/20/74	0	8	
FRHI0035	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	9	115	
FRHI0043	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/18/72-08/27/76	3	11	
FRHI0045	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	22	248	T,A
FRHI0057	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	15	140	
FRHI0058	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/30/76-08/27/76	0	7	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0092	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/76-07/27/76	0	6	
FRHI0096	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	24	259	T,A
FRHI0092	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	04/30/96-04/08/97	0	11	
FRHI0008	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0011	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/73-10/05/73	0	19	
FRHI0017	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0019	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0021	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/18/96-09/03/97	1	6	
FRHI0022	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/73-10/05/73	0	12	
FRHI0030	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/73-10/05/73	0	19	
FRHI0031	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0032	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/16/89-08/25/92	3	4	
FRHI0041	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	14	12	
FRHI0043	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/24/69-12/19/73	4	9	
FRHI0046	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	14	22	
FRHI0051	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/21/78-08/25/92	14	13	
FRHI0057	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/17/80-04/23/81	0	3	
FRHI0060	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/04/75-08/25/92	17	23	
FRHI0061	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/15/90-08/26/92	2	2	
FRHI0092	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/96-04/08/97	0	11	
FRHI0008	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0011	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/73-10/05/73	0	19	
FRHI0017	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0019	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/73-06/22/74	0	14	
FRHI0021	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/10/96-12/10/96	0	1	
FRHI0022	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/73-10/05/73	0	12	
FRHI0030	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/73-10/05/73	0	19	
FRHI0031	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/27/73-06/22/74	0	10	
FRHI0032	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/16/89-08/25/92	3	3	
FRHI0041	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/78-08/25/92	14	11	
FRHI0043	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/25/73-06/25/73	0	1	
FRHI0046	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/75-08/25/92	17	22	
FRHI0051	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/21/78-08/25/92	14	12	
FRHI0060	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/04/75-08/25/92	17	22	
FRHI0061	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/92-08/26/92	0	1	
FRHI0053	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	1	2	
FRHI0078	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	1	2	
FRHI0079	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	1	2	
FRHI0082	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	1	2	
FRHI0084	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/19/81	1	2	
FRHI0088	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	1	2	
FRHI0090	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/19/81	1	2	
FRHI0091	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/20/81	1	2	
FRHI0092	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-04/08/97	17	13	
FRHI0094	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/20/81	1	2	
FRHI0100	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/81-08/27/81	0	1	
FRHI0101	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/29/79	0	1	
FRHI0103	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/30/79	0	1	
FRHI0104	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	1	2	
FRHI0105	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	1	2	
FRHI0106	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/19/81	1	2	
FRHI0108	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	1	2	
FRHI0109	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/26/81-08/26/81	0	1	
FRHI0110	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	1	2	
FRHI0111	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	1	2	
FRHI0112	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/26/81-08/26/81	0	1	
FRHI0113	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/20/81	1	2	
FRHI0043	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/09/60-06/16/70	9	82	
FRHI0043	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/69-06/25/73	3	3	
FRHI0057	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/25/67-01/04/72	4	18	
FRHI0058	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/02/70-12/02/70	0	1	
FRHI0092	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/01/70-12/01/70	0	1	
FRHI0096	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/31/67-04/08/71	4	18	
FRHI0100	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/81-08/27/81	0	1	
FRHI0008	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/73-06/22/74	0	13	
FRHI0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/73-10/05/73	0	19	
FRHI0017	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/73-06/22/74	0	13	
FRHI0019	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/73-05/20/74	0	11	
FRHI0021	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/18/96-09/03/97	1	6	
FRHI0022	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/73-10/05/73	0	12	
FRHI0030	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/73-10/05/73	0	19	
FRHI0031	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/73-06/22/74	0	14	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0032	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/16/89-08/25/92	3	4	
FRHI0035	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	9	115	
FRHI0041	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/78-08/25/92	14	11	
FRHI0043	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/70-08/27/76	6	14	
FRHI0045	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	22	250	T,A
FRHI0046	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/03/75-08/25/92	17	22	
FRHI0051	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/21/78-08/25/92	14	13	
FRHI0057	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	16	143	
FRHI0058	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/06/75-08/27/76	0	10	
FRHI0060	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/04/75-08/25/92	17	24	
FRHI0061	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/15/90-08/26/92	2	2	
FRHI0092	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/01/75-04/08/97	21	20	
FRHI0096	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	23	259	T,A
FRHI0037	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0043	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/19/70-06/16/70	0	2	
FRHI0065	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	0	1	
FRHI0092	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/96-04/08/97	0	11	
FRHI0008	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	0	14	
FRHI0011	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/73-10/05/73	0	19	
FRHI0017	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	0	14	
FRHI0019	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	0	14	
FRHI0022	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/73-10/05/73	0	12	
FRHI0030	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/73-10/05/73	0	19	
FRHI0031	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	0	14	
FRHI0043	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/25/73-06/25/73	0	1	
FRHI0058	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/02/70-12/02/70	0	1	
FRHI0092	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/70-04/08/97	26	12	
FRHI0100	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/81-08/27/81	0	1	
FRHI0109	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/81-08/26/81	0	1	
FRHI0112	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/81-08/26/81	0	1	
FRHI0035	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	9	115	
FRHI0043	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/18/69-12/19/73	4	29	
FRHI0045	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	9	113	
FRHI0057	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/19/72-06/14/88	15	9	
FRHI0096	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	9	115	
FRHI0092	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/30/96-04/08/97	0	11	
FRHI0043	No	00685	CARBON, TOTAL INORGANIC (MG/L AS C)	09/26/73-09/26/73	0	1	
FRHI0002	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	0	1	
FRHI0110	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	0	1	
FRHI0002	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	0	1	
FRHI0110	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	0	1	
FRHI0092	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	04/30/96-04/08/97	0	11	
FRHI0002	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	08/28/80-08/28/80	0	1	
FRHI0110	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	08/28/80-08/28/80	0	1	
FRHI0045	No	00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/30/82-09/12/83	1	16	
FRHI0057	No	00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	4	52	
FRHI0043	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/26/73-05/28/76	2	5	
FRHI0045	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/01/75-09/12/83	7	24	
FRHI0057	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	11	86	
FRHI0058	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-08/27/76	0	7	
FRHI0086	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/03/86-08/25/86	0	2	
FRHI0001	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/28/65-07/02/68	2	2	
FRHI0012	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/12/63-07/12/63	0	1	
FRHI0013	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	0	11	
FRHI0016	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0018	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/02/67-02/02/67	0	1	
FRHI0021	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/18/96-09/03/97	1	6	
FRHI0024	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/07/49-02/07/49	0	1	
FRHI0028	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/16/65-10/31/74	9	18	
FRHI0032	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0033	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/68-03/27/69	0	2	
FRHI0035	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	9	115	
FRHI0036	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0041	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	15	
FRHI0043	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	18	243	
FRHI0045	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	22	251	T,A

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0046	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	17	26	
FRHI0048	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/26/74-10/10/74	0	7	
FRHI0050	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	0	12	
FRHI0051	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	17	16	
FRHI0053	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0057	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	25	183	T,S
FRHI0058	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/02/70-08/27/76	5	11	
FRHI0060	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	17	27	
FRHI0061	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/15/90-08/26/92	2	2	
FRHI0063	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0073	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/01/68-07/01/68	0	1	
FRHI0078	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0079	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0081	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/20/73-07/20/73	0	1	
FRHI0082	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0084	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0088	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0090	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0091	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	2	
FRHI0092	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/68-08/19/81	13	13	
FRHI0094	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	2	
FRHI0095	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0096	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	35	304	T,A,S
FRHI0100	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/27/81-08/27/81	0	1	
FRHI0101	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0103	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/30/79	0	1	
FRHI0104	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0105	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0106	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0108	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0109	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0110	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0111	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0112	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0113	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	1	2	
FRHI0001	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/28/65-07/02/68	2	2	
FRHI0012	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/12/63-07/12/63	0	1	
FRHI0024	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/07/49-02/07/49	0	1	
FRHI0033	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/02/68-03/27/69	0	2	
FRHI0043	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	16	178	
FRHI0058	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/02/70-12/02/70	0	1	
FRHI0073	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/01/68-07/01/68	0	1	
FRHI0079	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0084	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0088	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0091	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/20/81	1	2	
FRHI0092	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/02/68-08/19/81	13	4	
FRHI0101	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0104	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0105	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0106	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/19/81	1	2	
FRHI0108	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0109	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0110	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/19/81	1	2	
FRHI0111	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	1	2	
FRHI0112	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/81-08/26/81	0	1	
FRHI0113	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/29/79	0	1	
FRHI0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/28/65-07/02/68	2	2	
FRHI0012	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/12/63-07/12/63	0	1	
FRHI0024	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/07/49-02/07/49	0	1	
FRHI0033	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/68-03/27/69	0	2	
FRHI0037	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0043	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/57-08/27/76	18	105	
FRHI0045	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/75-12/13/77	2	19	
FRHI0053	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	1	2	
FRHI0054	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	0	1	
FRHI0057	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/19/72-12/13/77	5	29	
FRHI0058	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/02/70-08/27/76	5	11	
FRHI0059	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/28/89-07/01/93	3	48	
FRHI0062	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	0	1	
FRHI0065	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0067	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/21/91-06/07/96	4	45	
FRHI0070	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0073	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/68-07/01/68	0	1	
FRHI0074	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	0	1	
FRHI0075	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	0	1	
FRHI0078	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	1	2	
FRHI0079	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	1	2	
FRHI0080	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	0	1	
FRHI0082	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	1	2	
FRHI0084	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	1	2	
FRHI0088	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	1	2	
FRHI0090	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	1	2	
FRHI0091	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/20/81	1	2	
FRHI0092	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/68-04/08/97	28	24	
FRHI0094	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/20/81	1	2	
FRHI0096	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/02/72-12/13/77	5	29	
FRHI0100	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/81-08/27/81	0	1	
FRHI0101	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	1	2	
FRHI0103	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/30/79	0	1	
FRHI0104	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	1	2	
FRHI0105	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	1	2	
FRHI0106	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	1	2	
FRHI0108	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	1	2	
FRHI0109	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/81-08/26/81	0	1	
FRHI0110	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	1	2	
FRHI0111	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	1	2	
FRHI0112	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/81-08/26/81	0	1	
FRHI0113	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/20/81	1	2	
FRHI0032	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	12	11	
FRHI0041	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/22/80-08/25/92	12	11	
FRHI0045	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	9	116	
FRHI0046	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/23/83-08/25/92	9	18	
FRHI0051	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	12	11	
FRHI0057	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	9	114	
FRHI0060	No	00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	12	20	
FRHI0061	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/15/90-08/26/92	2	2	
FRHI0096	No	00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	9	117	
FRHI0055	Yes	00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0062	No	00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0074	Yes	00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0080	Yes	00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	0	1	
FRHI0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/28/65-07/02/68	2	2	
FRHI0006	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
FRHI0012	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/63-07/12/63	0	1	
FRHI0020	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	0	1	
FRHI0023	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/22/77-08/22/77	0	1	
FRHI0024	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/07/49-02/07/49	0	1	
FRHI0033	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/68-03/27/69	0	2	
FRHI0037	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0042	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/22/77-08/22/77	0	1	
FRHI0043	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/57-08/27/76	18	105	
FRHI0045	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/75-12/13/77	2	19	
FRHI0047	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/77-08/23/77	0	1	
FRHI0053	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	1	2	
FRHI0054	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/27/88-07/01/93	4	21	
FRHI0057	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/19/72-12/13/77	5	29	
FRHI0058	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/02/70-08/27/76	5	11	
FRHI0059	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/28/89-07/01/93	3	48	
FRHI0065	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/21/91-06/07/96	4	45	
FRHI0070	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0073	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/68-07/01/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0075	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	0	1	
FRHI0078	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	1	2	
FRHI0079	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	1	2	
FRHI0082	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	1	2	
FRHI0084	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	1	2	
FRHI0088	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	1	2	
FRHI0090	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	1	2	
FRHI0091	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/20/81	1	2	
FRHI0092	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/68-04/08/97	28	24	
FRHI0094	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/20/81	1	2	
FRHI0096	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/02/72-12/13/77	5	29	
FRHI0100	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/81-08/27/81	0	1	
FRHI0101	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	1	2	
FRHI0103	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/30/79	0	1	
FRHI0104	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	1	2	
FRHI0105	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	1	2	
FRHI0106	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	1	2	
FRHI0107	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/77-08/20/77	0	1	
FRHI0108	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	1	2	
FRHI0109	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/81-08/26/81	0	1	
FRHI0110	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	1	2	
FRHI0111	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	1	2	
FRHI0112	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/81-08/26/81	0	1	
FRHI0113	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/20/81	1	2	
FRHI0032	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	12	11	
FRHI0041	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/80-08/25/92	12	11	
FRHI0045	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	9	116	
FRHI0046	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/23/83-08/25/92	9	18	
FRHI0051	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	12	11	
FRHI0057	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	9	113	
FRHI0060	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	12	20	
FRHI0061	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/15/90-08/26/92	2	2	
FRHI0096	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	9	117	
FRHI0005	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/08/87-08/16/88	0	4	
FRHI0032	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	12	11	
FRHI0041	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/22/80-08/25/92	12	11	
FRHI0046	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/23/83-08/25/92	9	18	
FRHI0051	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	12	11	
FRHI0060	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	12	20	
FRHI0061	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/15/90-08/26/92	2	2	
FRHI0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/28/65-10/28/65	0	1	
FRHI0006	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/78-07/05/78	0	1	
FRHI0012	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/12/63-07/12/63	0	1	
FRHI0020	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/78-07/05/78	0	1	
FRHI0023	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	0	1	
FRHI0037	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0042	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	0	1	
FRHI0043	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/57-06/25/73	15	65	
FRHI0047	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/23/77-08/23/77	0	1	
FRHI0053	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	1	2	
FRHI0054	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/27/88-07/01/93	4	21	
FRHI0058	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/02/70-12/02/70	0	1	
FRHI0059	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/28/89-07/01/93	3	48	
FRHI0065	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/21/91-06/07/96	4	45	
FRHI0070	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0073	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/01/68-07/01/68	0	1	
FRHI0075	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	0	1	
FRHI0078	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	1	2	
FRHI0079	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	1	2	
FRHI0082	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	1	2	
FRHI0084	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	1	2	
FRHI0088	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	1	2	
FRHI0090	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	1	2	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0091	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/20/81	1	2	
FRHI0092	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/01/70-04/08/97	26	14	
FRHI0094	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/20/81	1	2	
FRHI0100	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/81-08/27/81	0	1	
FRHI0101	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	1	2	
FRHI0103	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/30/79	0	1	
FRHI0104	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	1	2	
FRHI0105	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	1	2	
FRHI0106	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	1	2	
FRHI0107	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/77-08/20/77	0	1	
FRHI0108	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	1	2	
FRHI0109	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/81-08/26/81	0	1	
FRHI0110	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	1	2	
FRHI0111	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	1	2	
FRHI0112	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/81-08/26/81	0	1	
FRHI0113	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/20/81	1	2	
FRHI0001	No	00931	SODIUM ADSORPTION RATIO	10/28/65-07/02/68	2	2	
FRHI0012	No	00931	SODIUM ADSORPTION RATIO	07/12/63-07/12/63	0	1	
FRHI0033	No	00931	SODIUM ADSORPTION RATIO	07/02/68-03/27/69	0	2	
FRHI0043	No	00931	SODIUM ADSORPTION RATIO	03/27/69-06/25/73	4	2	
FRHI0053	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	1	2	
FRHI0058	No	00931	SODIUM ADSORPTION RATIO	12/02/70-12/02/70	0	1	
FRHI0073	No	00931	SODIUM ADSORPTION RATIO	07/01/68-07/01/68	0	1	
FRHI0078	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	1	2	
FRHI0079	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	1	2	
FRHI0082	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	1	2	
FRHI0084	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	1	2	
FRHI0088	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	1	2	
FRHI0090	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	1	2	
FRHI0091	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/20/81	1	2	
FRHI0092	No	00931	SODIUM ADSORPTION RATIO	07/02/68-08/19/81	13	4	
FRHI0094	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/20/81	1	2	
FRHI0100	No	00931	SODIUM ADSORPTION RATIO	08/27/81-08/27/81	0	1	
FRHI0101	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	1	2	
FRHI0103	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/30/79	0	1	
FRHI0104	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	1	2	
FRHI0105	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	1	2	
FRHI0106	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	1	2	
FRHI0108	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	1	2	
FRHI0109	No	00931	SODIUM ADSORPTION RATIO	08/26/81-08/26/81	0	1	
FRHI0110	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	1	2	
FRHI0111	No	00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	1	2	
FRHI0112	No	00931	SODIUM ADSORPTION RATIO	08/26/81-08/26/81	0	1	
FRHI0113	No	00931	SODIUM ADSORPTION RATIO	08/29/79-08/20/81	1	2	
FRHI0001	No	00932	SODIUM, PERCENT	10/28/65-10/28/65	0	1	
FRHI0012	No	00932	SODIUM, PERCENT	07/12/63-07/12/63	0	1	
FRHI0033	No	00932	SODIUM, PERCENT	03/27/69-03/27/69	0	1	
FRHI0043	No	00932	SODIUM, PERCENT	03/27/69-06/25/73	4	2	
FRHI0053	No	00932	SODIUM, PERCENT	08/30/79-08/19/81	1	2	
FRHI0058	No	00932	SODIUM, PERCENT	12/02/70-12/02/70	0	1	
FRHI0073	No	00932	SODIUM, PERCENT	07/01/68-07/01/68	0	1	
FRHI0078	No	00932	SODIUM, PERCENT	08/30/79-08/19/81	1	2	
FRHI0079	No	00932	SODIUM, PERCENT	08/30/79-08/20/81	1	2	
FRHI0082	No	00932	SODIUM, PERCENT	08/30/79-08/19/81	1	2	
FRHI0084	No	00932	SODIUM, PERCENT	08/29/79-08/19/81	1	2	
FRHI0088	No	00932	SODIUM, PERCENT	08/30/79-08/19/81	1	2	
FRHI0090	No	00932	SODIUM, PERCENT	08/29/79-08/19/81	1	2	
FRHI0091	No	00932	SODIUM, PERCENT	08/29/79-08/20/81	1	2	
FRHI0092	No	00932	SODIUM, PERCENT	12/01/70-08/19/81	10	3	
FRHI0094	No	00932	SODIUM, PERCENT	08/29/79-08/20/81	1	2	
FRHI0100	No	00932	SODIUM, PERCENT	08/27/81-08/27/81	0	1	
FRHI0101	No	00932	SODIUM, PERCENT	08/29/79-08/19/81	1	2	
FRHI0103	No	00932	SODIUM, PERCENT	08/30/79-08/30/79	0	1	
FRHI0104	No	00932	SODIUM, PERCENT	08/30/79-08/20/81	1	2	
FRHI0105	No	00932	SODIUM, PERCENT	08/30/79-08/20/81	1	2	
FRHI0106	No	00932	SODIUM, PERCENT	08/29/79-08/19/81	1	2	
FRHI0108	No	00932	SODIUM, PERCENT	08/30/79-08/20/81	1	2	
FRHI0109	No	00932	SODIUM, PERCENT	08/26/81-08/26/81	0	1	
FRHI0110	No	00932	SODIUM, PERCENT	08/30/79-08/19/81	1	2	
FRHI0111	No	00932	SODIUM, PERCENT	08/30/79-08/20/81	1	2	
FRHI0112	No	00932	SODIUM, PERCENT	08/26/81-08/26/81	0	1	
FRHI0113	No	00932	SODIUM, PERCENT	08/29/79-08/20/81	1	2	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0024	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	02/07/49-02/07/49	0	1	
FRHI0033	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	03/27/69-03/27/69	0	1	
FRHI0043	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	03/27/69-03/12/73	3	3	
FRHI0053	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0078	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0079	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0082	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0084	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0088	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0090	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0091	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0092	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0094	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0101	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0103	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0104	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0105	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0106	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0108	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0110	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0111	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	0	1	
FRHI0113	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	0	1	
FRHI0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/28/65-10/28/65	0	1	
FRHI0012	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/12/63-07/12/63	0	1	
FRHI0037	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0043	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/57-06/25/73	15	65	
FRHI0053	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	1	2	
FRHI0054	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/10/93-07/01/93	0	3	
FRHI0058	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/02/70-12/02/70	0	1	
FRHI0059	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/07/92-07/01/93	0	4	
FRHI0065	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0073	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/01/68-07/01/68	0	1	
FRHI0075	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	0	1	
FRHI0078	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	1	2	
FRHI0079	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	1	2	
FRHI0082	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	1	2	
FRHI0084	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	1	2	
FRHI0088	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	1	2	
FRHI0090	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	1	2	
FRHI0091	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/20/81	1	2	
FRHI0092	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/01/70-04/08/97	26	14	
FRHI0094	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/20/81	1	2	
FRHI0100	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/81-08/27/81	0	1	
FRHI0101	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	1	2	
FRHI0103	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/30/79	0	1	
FRHI0104	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	1	2	
FRHI0105	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	1	2	
FRHI0106	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	1	2	
FRHI0108	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	1	2	
FRHI0109	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/81-08/26/81	0	1	
FRHI0110	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	1	2	
FRHI0111	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	1	2	
FRHI0112	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/81-08/26/81	0	1	
FRHI0113	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/20/81	1	2	
FRHI0032	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	12	9	
FRHI0041	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/22/80-08/25/92	12	9	
FRHI0046	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/23/83-08/25/92	9	16	
FRHI0051	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	12	10	
FRHI0060	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	12	18	
FRHI0061	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/15/90-08/26/92	2	2	
FRHI0001	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/28/65-07/02/68	2	2	
FRHI0005	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/08/87-08/16/88	0	4	
FRHI0012	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/12/63-07/12/63	0	1	
FRHI0018	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/02/67-02/02/67	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0021	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/96-09/03/97	1	6	
FRHI0024	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/07/49-02/07/49	0	1	
FRHI0028	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/16/65-01/24/73	7	7	
FRHI0032	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/16/89	0	1	
FRHI0033	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/02/68-03/27/69	0	2	
FRHI0041	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/25/92	3	2	
FRHI0043	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	18	229	
FRHI0045	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	12	137	
FRHI0046	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/16/89	0	2	
FRHI0051	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/25/92	3	2	
FRHI0053	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	1	4	
FRHI0057	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	25	180	T,S
FRHI0058	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/70-08/27/76	5	11	
FRHI0060	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/16/89	0	2	
FRHI0073	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/01/68-07/01/68	0	1	
FRHI0078	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	1	4	
FRHI0079	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	1	4	
FRHI0082	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	1	4	
FRHI0084	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	1	4	
FRHI0088	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	1	4	
FRHI0090	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	1	4	
FRHI0091	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/20/81	1	4	
FRHI0092	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/02/68-04/08/97	28	25	
FRHI0094	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/20/81	1	4	
FRHI0096	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	25	187	T,S
FRHI0099	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/22/80-09/04/80	0	2	
FRHI0100	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/81-08/27/81	0	1	
FRHI0101	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	1	4	
FRHI0103	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-09/05/80	1	3	
FRHI0104	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	1	4	
FRHI0105	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	1	4	
FRHI0106	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	1	4	
FRHI0108	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	1	4	
FRHI0109	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/81-08/26/81	0	1	
FRHI0110	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	1	3	
FRHI0111	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	1	4	
FRHI0112	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/81-08/26/81	0	1	
FRHI0113	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/20/81	1	4	
FRHI0001	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/28/65-07/02/68	2	2	
FRHI0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/79-08/11/81	2	6	
FRHI0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/08/87-08/16/88	0	4	
FRHI0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/12/63-07/12/63	0	1	
FRHI0016	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/74-10/10/74	0	5	
FRHI0018	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/02/67-02/02/67	0	1	
FRHI0021	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/96-09/03/97	1	6	
FRHI0024	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/07/49-02/07/49	0	1	
FRHI0028	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/16/65-10/31/74	9	17	
FRHI0032	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	17	13	
FRHI0033	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/68-03/27/69	0	2	
FRHI0035	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	9	115	
FRHI0036	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/74-10/10/74	0	6	
FRHI0041	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/78-08/25/92	14	12	
FRHI0043	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	18	245	
FRHI0045	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	22	251	T,A
FRHI0046	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	17	21	
FRHI0048	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/74-10/10/74	0	5	
FRHI0051	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-08/25/92	14	13	
FRHI0053	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	1	4	
FRHI0057	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	38	222	T,S
FRHI0058	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/70-08/27/76	5	11	
FRHI0060	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/04/75-08/25/92	17	22	
FRHI0061	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/90-08/26/92	2	2	
FRHI0073	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/01/68-07/01/68	0	1	
FRHI0078	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	1	4	
FRHI0079	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	1	4	
FRHI0082	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	1	4	
FRHI0084	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	1	4	
FRHI0088	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	1	4	
FRHI0090	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	1	4	
FRHI0091	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/20/81	1	4	
FRHI0092	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/68-04/08/97	28	25	
FRHI0094	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/20/81	1	4	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0096	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	47	341	T,A,S
FRHI0099	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/22/80-09/04/80	0	2	
FRHI0100	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/81-08/27/81	0	1	
FRHI0101	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	1	4	
FRHI0103	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-09/05/80	1	3	
FRHI0104	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	1	4	
FRHI0105	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	1	4	
FRHI0106	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	1	4	
FRHI0108	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	1	4	
FRHI0109	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/81-08/26/81	0	1	
FRHI0110	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/79-08/19/81	2	9	
FRHI0111	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	1	4	
FRHI0112	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/81-08/26/81	0	1	
FRHI0113	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/20/81	1	4	
FRHI0054	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	0	1	
FRHI0059	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/28/89-07/01/93	3	48	
FRHI0062	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	0	1	
FRHI0069	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/21/91-06/07/96	4	45	
FRHI0071	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/04/94-06/07/96	2	2	
FRHI0074	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	0	1	
FRHI0076	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/04/94-06/07/96	2	5	
FRHI0080	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	0	1	
FRHI0001	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/28/65-10/28/65	0	1	
FRHI0012	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/12/63-07/12/63	0	1	
FRHI0024	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/07/49-02/07/49	0	1	
FRHI0043	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	15	198	
FRHI0053	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	1	2	
FRHI0057	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/19/62-01/04/72	9	37	
FRHI0058	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/02/70-12/02/70	0	1	
FRHI0073	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/01/68-07/01/68	0	1	
FRHI0078	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	1	2	
FRHI0079	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	1	2	
FRHI0082	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	1	2	
FRHI0084	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	1	2	
FRHI0088	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	1	2	
FRHI0090	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	1	2	
FRHI0091	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/20/81	1	2	
FRHI0092	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/01/70-04/08/97	26	13	
FRHI0094	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/20/81	1	2	
FRHI0096	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/16/68-10/01/69	1	4	
FRHI0100	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/27/81-08/27/81	0	1	
FRHI0101	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	1	2	
FRHI0103	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/30/79	0	1	
FRHI0104	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	1	2	
FRHI0105	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	1	2	
FRHI0106	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	1	2	
FRHI0108	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	1	2	
FRHI0109	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/26/81-08/26/81	0	1	
FRHI0110	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	1	2	
FRHI0111	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	1	2	
FRHI0112	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/26/81-08/26/81	0	1	
FRHI0113	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/20/81	1	2	
FRHI0045	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/19/80-03/19/80	0	1	
FRHI0057	No	00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	25	169	T,S
FRHI0058	No	00951	FLUORIDE, TOTAL (MG/L AS F)	11/06/75-08/27/76	0	10	
FRHI0096	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/05/73-03/19/80	6	2	
FRHI0001	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/28/65-10/28/65	0	1	
FRHI0012	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/12/63-07/12/63	0	1	
FRHI0024	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/07/49-02/07/49	0	1	
FRHI0043	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/57-06/25/73	15	65	
FRHI0053	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	1	2	
FRHI0058	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/02/70-12/02/70	0	1	
FRHI0073	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/01/68-07/01/68	0	1	
FRHI0078	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	1	2	
FRHI0079	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	1	2	
FRHI0082	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	1	2	
FRHI0084	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	1	2	
FRHI0088	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	1	2	
FRHI0090	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	1	2	
FRHI0091	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/20/81	1	2	
FRHI0092	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/01/70-04/08/97	26	14	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0094	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/20/81	1	2	
FRHI0100	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/81-08/27/81	0	1	
FRHI0101	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	1	2	
FRHI0103	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/30/79	0	1	
FRHI0104	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	1	2	
FRHI0105	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	1	2	
FRHI0106	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	1	2	
FRHI0108	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	1	2	
FRHI0109	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/81-08/26/81	0	1	
FRHI0110	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	1	2	
FRHI0111	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	1	2	
FRHI0112	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/81-08/26/81	0	1	
FRHI0113	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/20/81	1	2	
FRHI0054	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/10/93-07/01/93	0	2	
FRHI0057	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/19/72-09/19/72	0	1	
FRHI0059	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/10/93-07/01/93	0	2	
FRHI0069	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/04/94-06/07/96	2	3	
FRHI0071	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/04/94-06/07/96	2	2	
FRHI0076	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/04/94-06/07/96	2	5	
FRHI0032	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/88-07/30/91	3	4	
FRHI0041	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/16/89-07/30/91	1	3	
FRHI0043	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/26/73-09/26/73	0	1	
FRHI0045	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/10/84-08/05/86	1	2	
FRHI0046	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/16/89-07/30/91	1	6	
FRHI0051	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/16/89-07/31/91	1	3	
FRHI0057	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/19/72-08/05/86	13	3	
FRHI0060	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/88-07/31/91	3	7	
FRHI0061	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/15/90-08/15/90	0	1	
FRHI0096	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/10/84-08/14/86	1	3	
FRHI0002	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0034	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/08/86-07/08/86	0	2	
FRHI0110	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0035	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/06/88-10/06/88	0	1	
FRHI0045	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/06/88-10/06/88	0	1	
FRHI0037	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0054	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/10/93-07/01/93	0	2	
FRHI0059	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	0	1	
FRHI0032	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	9	10	
FRHI0041	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/23/83-08/25/92	9	10	
FRHI0046	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/23/83-08/25/92	9	18	
FRHI0051	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	9	10	
FRHI0060	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	9	18	
FRHI0061	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/15/90-08/26/92	2	2	
FRHI0065	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0054	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	02/10/93-07/01/93	0	2	
FRHI0059	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	02/10/93-07/01/93	0	2	
FRHI0069	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/04/94-06/07/96	2	3	
FRHI0071	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/04/94-06/07/96	2	2	
FRHI0076	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/04/94-06/07/96	2	5	
FRHI0032	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	9	10	
FRHI0041	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/23/83-08/25/92	9	10	
FRHI0046	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/23/83-08/25/92	9	18	
FRHI0051	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	9	10	
FRHI0060	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	9	18	
FRHI0061	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/15/90-08/26/92	2	2	
FRHI0065	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0067	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	
FRHI0068	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	
FRHI0070	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	
FRHI0072	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	
FRHI0075	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	
FRHI0077	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	0	1	
FRHI0037	No	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0067	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0068	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0070	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0072	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0075	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0077	Yes	01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	0	1	
FRHI0037	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0043	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/26/73-12/19/73	0	2	
FRHI0054	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/10/93-07/01/93	0	2	
FRHI0057	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/19/72-09/19/72	0	1	
FRHI0059	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	0	1	
FRHI0021	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/96-06/18/96	0	1	
FRHI0032	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/06/86-07/30/91	4	7	
FRHI0041	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/22/80-07/30/91	11	8	
FRHI0043	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/76-07/27/76	0	1	
FRHI0045	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/76-08/17/87	11	11	
FRHI0046	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/23/83-07/30/91	7	16	
FRHI0051	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/06/86-07/31/91	4	6	
FRHI0057	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/19/72-08/17/87	14	10	
FRHI0060	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/80-07/31/91	11	18	
FRHI0061	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/15/90-08/15/90	0	1	
FRHI0086	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/12/86-08/19/86	0	4	
FRHI0092	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/76-07/27/76	0	1	
FRHI0096	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/26/72-08/17/87	14	12	
FRHI0002	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0034	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/08/86-07/08/86	0	2	
FRHI0110	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0002	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0065	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0110	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0037	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0043	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/19/73-12/19/73	0	1	
FRHI0054	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/10/93-07/01/93	0	2	
FRHI0057	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/19/72-09/19/72	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0059	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	0	1	
FRHI0043	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/26/73-09/26/73	0	1	
FRHI0021	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/96-09/03/97	1	6	
FRHI0032	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/30/75-08/25/92	17	9	
FRHI0041	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/22/80-08/25/92	12	9	
FRHI0043	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/76-07/27/76	0	1	
FRHI0045	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/76-08/17/87	11	11	
FRHI0046	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/23/83-08/25/92	9	18	
FRHI0051	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/06/86-08/25/92	6	7	
FRHI0057	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/19/72-08/17/87	14	10	
FRHI0060	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/80-08/25/92	12	20	
FRHI0061	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/15/90-08/26/92	2	2	
FRHI0092	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/76-07/27/76	0	1	
FRHI0096	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/26/72-08/17/87	14	12	
FRHI0054	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	02/10/93-07/01/93	0	2	
FRHI0059	No	01035	COBALT, DISSOLVED (UG/L AS CO)	02/10/93-07/01/93	0	2	
FRHI0069	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/04/94-06/07/96	2	3	
FRHI0071	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/04/94-06/07/96	2	2	
FRHI0076	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/04/94-06/07/96	2	5	
FRHI0002	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0110	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0065	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0067	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0068	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0070	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0072	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0075	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0077	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	0	1	
FRHI0037	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0043	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/26/73-12/19/73	0	2	
FRHI0054	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	02/10/93-07/01/93	0	2	
FRHI0057	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/19/72-09/19/72	0	1	
FRHI0059	No	01040	COPPER, DISSOLVED (UG/L AS CU)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	0	1	
FRHI0021	No	01042	COPPER, TOTAL (UG/L AS CU)	06/18/96-09/03/97	1	6	
FRHI0032	No	01042	COPPER, TOTAL (UG/L AS CU)	07/30/75-08/25/92	17	9	
FRHI0035	No	01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	9	115	
FRHI0041	No	01042	COPPER, TOTAL (UG/L AS CU)	07/22/80-08/25/92	12	9	
FRHI0043	No	01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/27/76	0	1	
FRHI0045	No	01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	20	125	
FRHI0046	No	01042	COPPER, TOTAL (UG/L AS CU)	08/23/83-08/25/92	9	18	
FRHI0051	No	01042	COPPER, TOTAL (UG/L AS CU)	08/06/86-08/25/92	6	7	
FRHI0057	No	01042	COPPER, TOTAL (UG/L AS CU)	09/19/72-06/14/88	15	13	
FRHI0060	No	01042	COPPER, TOTAL (UG/L AS CU)	07/23/80-08/25/92	12	20	
FRHI0061	No	01042	COPPER, TOTAL (UG/L AS CU)	08/15/90-08/26/92	2	2	
FRHI0086	No	01042	COPPER, TOTAL (UG/L AS CU)	03/12/86-03/12/86	0	2	
FRHI0092	No	01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/27/76	0	1	
FRHI0096	No	01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	24	128	
FRHI0002	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0065	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0072	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0110	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0002	No	01044	IRON, SUSPENDED (UG/L AS FE)	06/14/79-08/11/81	2	6	
FRHI0032	No	01044	IRON, SUSPENDED (UG/L AS FE)	06/26/79-06/26/79	0	1	
FRHI0053	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0078	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0079	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	1	3	
FRHI0082	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0084	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-09/05/80	0	2	
FRHI0088	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0090	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0091	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	1	3	
FRHI0092	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0094	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	1	2	
FRHI0099	No	01044	IRON, SUSPENDED (UG/L AS FE)	09/04/80-09/04/80	0	1	
FRHI0100	No	01044	IRON, SUSPENDED (UG/L AS FE)	08/27/81-08/27/81	0	1	
FRHI0101	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0103	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-09/05/80	0	2	
FRHI0104	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	1	3	
FRHI0105	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-09/04/80	0	2	
FRHI0106	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	1	3	
FRHI0108	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-08/20/81	1	3	
FRHI0109	No	01044	IRON, SUSPENDED (UG/L AS FE)	08/26/81-08/26/81	0	1	
FRHI0110	No	01044	IRON, SUSPENDED (UG/L AS FE)	06/14/79-08/19/81	2	8	
FRHI0111	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-08/20/81	1	3	
FRHI0112	No	01044	IRON, SUSPENDED (UG/L AS FE)	08/26/81-08/26/81	0	1	
FRHI0113	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-08/20/81	1	3	
FRHI0002	No	01045	IRON, TOTAL (UG/L AS FE)	06/14/79-08/11/81	2	6	
FRHI0005	No	01045	IRON, TOTAL (UG/L AS FE)	12/08/87-08/16/88	0	4	
FRHI0016	No	01045	IRON, TOTAL (UG/L AS FE)	07/19/73-10/10/74	1	7	
FRHI0018	No	01045	IRON, TOTAL (UG/L AS FE)	02/02/67-02/02/67	0	1	
FRHI0021	No	01045	IRON, TOTAL (UG/L AS FE)	06/18/96-09/03/97	1	6	
FRHI0028	No	01045	IRON, TOTAL (UG/L AS FE)	07/16/65-10/31/74	9	17	
FRHI0032	No	01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	17	14	
FRHI0035	No	01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	9	115	
FRHI0036	No	01045	IRON, TOTAL (UG/L AS FE)	07/19/73-10/10/74	1	6	
FRHI0041	No	01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	17	15	
FRHI0043	No	01045	IRON, TOTAL (UG/L AS FE)	10/01/57-08/27/76	18	49	
FRHI0045	No	01045	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	22	253	T,A
FRHI0046	No	01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	17	26	
FRHI0048	No	01045	IRON, TOTAL (UG/L AS FE)	04/26/74-10/10/74	0	6	
FRHI0051	No	01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	17	16	
FRHI0053	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0057	No	01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	38	222	T,S
FRHI0058	No	01045	IRON, TOTAL (UG/L AS FE)	11/06/75-08/27/76	0	10	
FRHI0060	No	01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	17	27	
FRHI0061	No	01045	IRON, TOTAL (UG/L AS FE)	08/15/90-08/26/92	2	2	
FRHI0078	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0079	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0081	No	01045	IRON, TOTAL (UG/L AS FE)	07/19/73-07/20/73	0	2	
FRHI0082	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0084	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0088	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0090	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0091	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/20/81	1	4	
FRHI0092	No	01045	IRON, TOTAL (UG/L AS FE)	11/01/75-08/19/81	5	13	
FRHI0094	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/20/81	1	3	
FRHI0096	No	01045	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	47	344	T,A,S
FRHI0099	No	01045	IRON, TOTAL (UG/L AS FE)	09/04/80-09/04/80	0	1	
FRHI0100	No	01045	IRON, TOTAL (UG/L AS FE)	08/27/81-08/27/81	0	1	
FRHI0101	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0103	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-09/05/80	1	3	
FRHI0104	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0105	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0106	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0108	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0109	No	01045	IRON, TOTAL (UG/L AS FE)	08/26/81-08/26/81	0	1	
FRHI0110	No	01045	IRON, TOTAL (UG/L AS FE)	06/14/79-08/19/81	2	9	
FRHI0111	No	01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0112	No	01045	IRON, TOTAL (UG/L AS FE)	08/26/81-08/26/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0113	No	01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/20/81	1	4	
FRHI0002	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/14/79-08/11/81	2	6	
FRHI0012	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/12/63-07/12/63	0	1	
FRHI0024	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/07/49-02/07/49	0	1	
FRHI0028	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/10/73-07/10/73	0	1	
FRHI0037	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0043	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/18/72-12/19/73	1	3	
FRHI0053	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0057	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/19/72-12/18/72	0	2	
FRHI0058	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/02/70-12/02/70	0	1	
FRHI0065	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0073	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/01/68-07/01/68	0	1	
FRHI0075	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	0	1	
FRHI0078	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0079	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0082	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0084	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0088	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	1	4	
FRHI0090	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0091	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/20/81	1	4	
FRHI0092	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/01/70-04/08/97	26	16	
FRHI0094	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/20/81	1	4	
FRHI0099	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/22/80-09/04/80	0	2	
FRHI0100	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/27/81-08/27/81	0	1	
FRHI0101	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0103	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-09/05/80	1	3	
FRHI0104	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0105	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0106	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	1	4	
FRHI0108	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0109	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/26/81-08/26/81	0	1	
FRHI0110	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/14/79-08/19/81	2	9	
FRHI0111	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	1	4	
FRHI0112	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/26/81-08/26/81	0	1	
FRHI0113	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/20/81	1	4	
FRHI0054	Yes	01047	IRON, FERROUS (UG/L AS FE)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0059	No	01047	IRON, FERROUS (UG/L AS FE)	11/28/89-07/01/93	3	47	
FRHI0062	No	01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0069	Yes	01047	IRON, FERROUS (UG/L AS FE)	06/21/91-06/07/96	4	45	
FRHI0071	Yes	01047	IRON, FERROUS (UG/L AS FE)	04/04/94-06/07/96	2	2	
FRHI0074	Yes	01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0076	Yes	01047	IRON, FERROUS (UG/L AS FE)	04/04/94-06/07/96	2	5	
FRHI0080	Yes	01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0037	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0043	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/26/73-12/19/73	0	2	
FRHI0054	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	02/10/93-07/01/93	0	2	
FRHI0057	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/19/72-09/19/72	0	1	
FRHI0059	No	01049	LEAD, DISSOLVED (UG/L AS PB)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	0	1	
FRHI0021	No	01051	LEAD, TOTAL (UG/L AS PB)	06/18/96-09/03/97	1	6	
FRHI0032	No	01051	LEAD, TOTAL (UG/L AS PB)	07/30/75-07/30/91	16	8	
FRHI0035	No	01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	9	115	
FRHI0041	No	01051	LEAD, TOTAL (UG/L AS PB)	07/22/80-07/30/91	11	8	
FRHI0043	No	01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/27/76	0	1	
FRHI0045	No	01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	20	125	
FRHI0046	No	01051	LEAD, TOTAL (UG/L AS PB)	08/23/83-07/30/91	7	16	
FRHI0051	No	01051	LEAD, TOTAL (UG/L AS PB)	08/06/86-07/31/91	4	6	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0057	No	01051	LEAD, TOTAL (UG/L AS PB)	09/19/72-06/14/88	15	13	
FRHI0060	No	01051	LEAD, TOTAL (UG/L AS PB)	07/23/80-07/31/91	11	18	
FRHI0061	No	01051	LEAD, TOTAL (UG/L AS PB)	08/15/90-08/15/90	0	1	
FRHI0086	No	01051	LEAD, TOTAL (UG/L AS PB)	03/12/86-08/19/86	0	4	
FRHI0092	No	01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/27/76	0	1	
FRHI0096	No	01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	24	128	
FRHI0002	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0034	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/08/86-07/08/86	0	2	
FRHI0065	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0110	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0002	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0110	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0002	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/14/79-08/11/81	2	6	
FRHI0032	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/26/79-06/26/79	0	1	
FRHI0053	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0078	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0079	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0082	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0084	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0088	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0090	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0091	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0092	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0094	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/20/81	1	3	
FRHI0099	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/04/80-09/04/80	0	1	
FRHI0100	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/27/81-08/27/81	0	1	
FRHI0101	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0103	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-09/05/80	1	3	
FRHI0104	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0105	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0106	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0108	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0109	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/26/81-08/26/81	0	1	
FRHI0110	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/14/79-08/19/81	2	9	
FRHI0111	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0112	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/26/81-08/26/81	0	1	
FRHI0113	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0002	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/14/79-08/11/81	2	6	
FRHI0005	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/08/87-08/16/88	0	4	
FRHI0016	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/74-10/10/74	0	6	
FRHI0018	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/02/67-02/02/67	0	1	
FRHI0021	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/18/96-09/03/97	1	6	
FRHI0028	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/16/65-10/31/74	9	13	
FRHI0032	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	17	14	
FRHI0035	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	9	115	
FRHI0036	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/74-10/10/74	0	5	
FRHI0041	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	17	15	
FRHI0043	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/57-07/27/76	18	170	
FRHI0045	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	20	132	
FRHI0046	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	17	26	
FRHI0048	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/74-10/10/74	0	7	
FRHI0051	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	17	16	
FRHI0053	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0057	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-06/14/88	25	57	S
FRHI0060	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	17	27	
FRHI0061	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/15/90-08/26/92	2	2	
FRHI0078	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0079	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0082	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0084	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0088	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0090	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0091	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0092	No	01055	MANGANESE, TOTAL (UG/L AS MN)	11/01/75-08/19/81	5	13	
FRHI0094	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/20/81	1	3	
FRHI0096	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	34	298	T,A,S

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0099	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/04/80-09/04/80	0	1	
FRHI0100	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/27/81-08/27/81	0	1	
FRHI0101	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0103	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-09/05/80	1	3	
FRHI0104	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0105	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0106	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0108	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0109	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/26/81-08/26/81	0	1	
FRHI0110	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/14/79-08/19/81	2	9	
FRHI0111	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0112	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/26/81-08/26/81	0	1	
FRHI0113	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/14/79-08/11/81	2	6	
FRHI0006	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
FRHI0020	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	0	1	
FRHI0028	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/73-07/10/73	0	1	
FRHI0037	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0042	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/77-08/22/77	0	1	
FRHI0043	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/18/72-12/19/73	1	4	
FRHI0053	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0054	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	0	1	
FRHI0057	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/72-12/18/72	0	2	
FRHI0058	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/02/70-12/02/70	0	1	
FRHI0059	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/28/89-07/01/93	3	48	
FRHI0062	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	0	1	
FRHI0065	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/21/91-06/07/96	4	45	
FRHI0070	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0073	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/01/68-07/01/68	0	1	
FRHI0074	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	0	1	
FRHI0075	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	0	1	
FRHI0078	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0079	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0080	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	0	1	
FRHI0082	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0084	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0088	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	1	4	
FRHI0090	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0091	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0092	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/01/70-04/08/97	26	16	
FRHI0094	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0099	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/22/80-09/04/80	0	2	
FRHI0100	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/81-08/27/81	0	1	
FRHI0101	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0103	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-09/05/80	1	3	
FRHI0104	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0105	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0106	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	1	4	
FRHI0108	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0109	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/81-08/26/81	0	1	
FRHI0110	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/14/79-08/19/81	2	8	
FRHI0111	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	1	4	
FRHI0112	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/81-08/26/81	0	1	
FRHI0113	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/20/81	1	4	
FRHI0037	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0068	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0037	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0043	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/26/73-09/26/73	0	1	
FRHI0054	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	02/10/93-07/01/93	0	2	
FRHI0057	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/19/72-09/19/72	0	1	
FRHI0059	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	0	1	
FRHI0021	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/18/96-09/03/97	1	6	
FRHI0032	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/06/86-08/25/92	6	8	
FRHI0035	No	01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	9	115	
FRHI0041	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/22/80-08/25/92	12	9	
FRHI0043	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/27/76	0	1	
FRHI0045	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	20	125	
FRHI0046	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/23/83-08/25/92	9	18	
FRHI0051	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/06/86-08/25/92	6	7	
FRHI0057	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/19/72-06/14/88	15	13	
FRHI0060	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/80-08/25/92	12	20	
FRHI0061	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/15/90-08/26/92	2	2	
FRHI0086	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/03/86-08/19/86	0	2	
FRHI0092	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/27/76	0	1	
FRHI0096	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	24	128	
FRHI0034	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/08/86-07/08/86	0	2	
FRHI0065	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0086	No	01077	SILVER, TOTAL (UG/L AS AG)	03/12/86-03/12/86	0	2	
FRHI0037	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0043	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	03/08/72-03/08/72	0	1	
FRHI0065	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	0	1	
FRHI0106	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/19/81-08/19/81	0	1	
FRHI0065	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0006	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/78-07/05/78	0	1	
FRHI0020	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/78-07/05/78	0	1	
FRHI0023	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	0	1	
FRHI0037	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0042	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	0	1	
FRHI0047	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/23/77-08/23/77	0	1	
FRHI0065	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0077	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	0	1	
FRHI0107	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/20/77-08/20/77	0	1	
FRHI0065	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0037	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0043	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/26/73-12/19/73	0	2	
FRHI0053	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0054	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/10/93-07/01/93	0	2	
FRHI0057	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/19/72-09/19/72	0	1	
FRHI0059	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/10/93-07/01/93	0	2	
FRHI0065	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/04/94-06/07/96	2	3	
FRHI0070	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	0	1	
FRHI0078	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0079	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0082	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0084	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0088	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0090	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0091	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0092	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0094	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0101	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0104	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0105	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0108	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0110	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0111	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0113	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0053	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	0	1	
FRHI0078	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	0	1	
FRHI0079	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	0	1	
FRHI0082	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	0	1	
FRHI0088	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	0	1	
FRHI0090	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	0	1	
FRHI0091	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	0	1	
FRHI0092	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	0	1	
FRHI0094	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	0	1	
FRHI0104	No	01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	0	1	
FRHI0005	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/08/87-08/16/88	0	4	
FRHI0021	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/18/96-09/03/97	1	6	
FRHI0032	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/30/75-08/25/92	17	11	
FRHI0035	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	9	115	
FRHI0041	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/22/80-08/25/92	12	11	
FRHI0043	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/27/76	0	1	
FRHI0045	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	20	139	
FRHI0046	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/23/83-08/25/92	9	18	
FRHI0051	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/24/83-08/25/92	9	10	
FRHI0053	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0057	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/19/72-06/14/88	15	15	
FRHI0060	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/80-08/25/92	12	20	
FRHI0061	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/15/90-08/26/92	2	2	
FRHI0078	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0079	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0082	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0084	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0086	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/12/86-03/12/86	0	2	
FRHI0088	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0090	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0091	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	

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Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0092	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-08/19/81	5	2	
FRHI0094	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0096	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	24	128	
FRHI0101	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0104	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0105	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0106	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0108	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0110	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	0	1	
FRHI0111	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0113	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	0	1	
FRHI0002	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0065	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0110	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0054	Yes	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	02/10/93-07/01/93	0	2	
FRHI0059	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	02/10/93-07/01/93	0	2	
FRHI0069	Yes	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	04/04/94-06/07/96	2	3	
FRHI0071	Yes	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	04/04/94-06/07/96	2	2	
FRHI0076	Yes	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	04/04/94-06/07/96	2	5	
FRHI0032	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	9	8	
FRHI0041	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/23/83-08/25/92	9	8	
FRHI0046	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/23/83-08/25/92	9	16	
FRHI0051	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	9	9	
FRHI0060	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	9	16	
FRHI0061	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/15/90-08/26/92	2	2	
FRHI0005	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/08/87-08/16/88	0	4	
FRHI0012	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/12/63-07/12/63	0	1	
FRHI0021	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/18/96-09/03/97	1	6	
FRHI0028	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/17/65-10/31/74	9	6	
FRHI0032	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/24/83-08/25/92	9	10	
FRHI0035	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	9	115	
FRHI0041	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/22/80-08/25/92	12	11	
FRHI0043	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/01/57-07/27/76	18	59	
FRHI0045	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	20	127	
FRHI0046	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/23/83-08/25/92	9	18	
FRHI0051	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/24/83-08/25/92	9	10	
FRHI0053	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0057	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-06/14/88	38	65	S
FRHI0060	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/23/80-08/25/92	12	20	
FRHI0061	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/15/90-08/26/92	2	2	
FRHI0073	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/01/68-07/01/68	0	1	
FRHI0078	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0079	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0082	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0084	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0086	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/12/86-03/12/86	0	2	
FRHI0088	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0090	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0091	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0092	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/01/75-08/19/81	5	10	
FRHI0094	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0096	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	47	307	A,S
FRHI0101	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0104	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0105	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0106	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0108	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0110	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0111	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0113	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0006	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/78-07/05/78	0	1	
FRHI0020	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/78-07/05/78	0	1	
FRHI0023	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	0	1	
FRHI0037	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0042	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	0	1	
FRHI0043	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/26/73-12/19/73	0	2	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0047	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/23/77-08/23/77	0	1	
FRHI0053	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	1	2	
FRHI0054	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	0	1	
FRHI0057	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/19/72-09/19/72	0	1	
FRHI0059	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/28/89-07/01/93	3	48	
FRHI0062	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	0	1	
FRHI0065	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0069	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	06/21/91-06/07/96	4	45	
FRHI0070	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0071	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/04/94-06/07/96	2	2	
FRHI0072	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0074	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	0	1	
FRHI0075	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0076	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/04/94-06/07/96	2	5	
FRHI0077	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	0	1	
FRHI0078	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	1	2	
FRHI0079	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	1	2	
FRHI0080	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	0	1	
FRHI0082	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	1	2	
FRHI0084	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	1	2	
FRHI0088	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	1	2	
FRHI0090	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	1	2	
FRHI0091	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/20/81	1	2	
FRHI0092	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-04/08/97	17	13	
FRHI0094	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/20/81	1	2	
FRHI0101	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	1	2	
FRHI0103	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/30/79	0	1	
FRHI0104	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	1	2	
FRHI0105	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	1	2	
FRHI0106	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	1	2	
FRHI0107	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/20/77-08/20/77	0	1	
FRHI0108	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	1	2	
FRHI0110	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	1	2	
FRHI0111	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	1	2	
FRHI0113	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/20/81	1	2	
FRHI0053	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0078	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0079	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0082	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0088	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0090	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0091	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0092	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0094	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0101	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0104	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0105	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0106	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0108	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0110	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	0	1	
FRHI0111	No	01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	0	1	
FRHI0037	No	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	0	1	
FRHI0054	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/10/93-07/01/93	0	2	
FRHI0059	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/10/93-07/01/93	0	2	
FRHI0069	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/04/94-06/07/96	2	3	
FRHI0071	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/04/94-06/07/96	2	2	
FRHI0076	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/04/94-06/07/96	2	5	
FRHI0032	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/88-07/30/91	3	3	
FRHI0041	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/16/89-07/30/91	1	2	
FRHI0046	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/16/89-07/30/91	1	4	
FRHI0051	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/16/89-07/31/91	1	2	
FRHI0060	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/88-07/31/91	3	5	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0086	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/03/86-08/19/86	0	2	
FRHI0002	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0034	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/08/86-07/08/86	0	2	
FRHI0110	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0037	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0067	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0068	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0070	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0075	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0077	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	0	1	
FRHI0065	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0067	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0068	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0070	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0072	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0075	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0077	Yes	01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	0	1	
FRHI0002	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0110	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0021	No	01300	OIL-GREASE (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01300	OIL-GREASE (SEVERITY)	08/18/69-12/19/73	4	34	
FRHI0021	No	01305	DETERGENT SUDS (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01305	DETERGENT SUDS (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0021	No	01310	GAS BUBBLES (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01310	GAS BUBBLES (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0021	No	01315	SLUDGE, FLOATING (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01315	SLUDGE, FLOATING (SEVERITY)	08/18/69-12/19/73	4	34	
FRHI0021	No	01320	GARBAGE, FLOATING (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01320	GARBAGE, FLOATING (SEVERITY)	08/18/69-12/19/73	4	34	
FRHI0021	No	01325	ALGAE, FLOATING MATS (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01325	ALGAE, FLOATING MATS (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0021	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0045	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	11/01/75-11/13/84	9	23	
FRHI0057	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	08/02/72-11/13/84	12	22	
FRHI0096	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	03/27/74-11/13/84	10	26	
FRHI0021	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0021	No	01340	FISH, DEAD (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01340	FISH, DEAD (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0021	No	01345	DEBRIS, FLOATING (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01345	DEBRIS, FLOATING (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0021	No	01350	TURBIDITY (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01350	TURBIDITY (SEVERITY)	08/18/69-12/19/73	4	35	
FRHI0057	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	04/04/50-04/18/73	23	86	
FRHI0058	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	12/02/70-12/02/70	0	1	
FRHI0092	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	12/01/70-12/01/70	0	1	
FRHI0096	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	04/04/50-01/04/72	21	77	
FRHI0021	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	06/18/96-09/03/97	1	6	
FRHI0043	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	08/18/69-12/19/73	4	34	
FRHI0043	No	01501	ALPHA, TOTAL	04/29/76-05/28/76	0	2	
FRHI0045	No	01501	ALPHA, TOTAL	03/29/76-04/11/84	8	46	
FRHI0057	No	01501	ALPHA, TOTAL	10/16/67-04/11/84	16	63	
FRHI0096	No	01501	ALPHA, TOTAL	04/25/67-02/28/83	15	18	
FRHI0045	No	01502	ALPHA, TOTAL, COUNTING ERROR	04/29/76-02/26/81	4	6	
FRHI0057	No	01502	ALPHA, TOTAL, COUNTING ERROR	09/30/76-05/06/81	4	8	
FRHI0043	No	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	03/08/72-03/08/72	0	1	
FRHI0043	No	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	03/08/72-03/08/72	0	1	
FRHI0043	No	03501	BETA, TOTAL	04/29/76-05/28/76	0	2	
FRHI0045	No	03501	BETA, TOTAL	03/29/76-04/11/84	8	45	
FRHI0057	No	03501	BETA, TOTAL	10/16/67-04/11/84	16	63	
FRHI0096	No	03501	BETA, TOTAL	04/25/67-02/28/83	15	18	
FRHI0045	No	03502	BETA, TOTAL, COUNTING ERROR	03/29/76-04/11/84	8	20	
FRHI0057	No	03502	BETA, TOTAL, COUNTING ERROR	03/29/76-04/11/84	8	16	
FRHI0043	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	03/08/72-03/08/72	0	1	
FRHI0043	No	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	03/08/72-03/08/72	0	1	
FRHI0045	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/16/80-04/11/84	3	13	
FRHI0057	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/16/80-04/11/84	3	11	
FRHI0096	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	02/28/83-02/28/83	0	1	
FRHI0006	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0020	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	0	1	
FRHI0065	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0065	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0067	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0068	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0070	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0072	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0075	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0077	Yes	30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2	
FRHI0034	No	30380	BUTACHLOR UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	30381	CHLOROBENZILATE UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	30382	TRIPHENYL PHOSPHATE UG/KG	07/08/86-07/08/86	0	2	
FRHI0018	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/02/67-02/02/67	0	1	
FRHI0028	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/16/65-10/31/74	9	15	
FRHI0043	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/31/69-12/19/73	4	37	
FRHI0057	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/09/72-06/21/77	4	8	
FRHI0057	No	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	8	33	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0096	No	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	8	33	
FRHI0003	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/29/96-07/29/96	0	1	
FRHI0007	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	0	1	
FRHI0009	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	0	1	
FRHI0010	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	0	1	
FRHI0015	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	0	1	
FRHI0018	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/02/67-02/02/67	0	1	
FRHI0021	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/96-09/03/97	1	6	
FRHI0028	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/65-10/31/74	9	15	
FRHI0043	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/24/69-12/19/73	4	29	
FRHI0045	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	10	122	
FRHI0057	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	15	131	
FRHI0096	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	10	167	
FRHI0018	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/02/67-02/02/67	0	1	
FRHI0028	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/16/65-09/01/65	0	10	
FRHI0086	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	32104	BROMOFORM,WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0044	No	32106	CHLOROFORM,WHOLE WATER,UG/L	07/29/76-07/29/76	0	1	
FRHI0086	No	32106	CHLOROFORM,WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0011	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/24/73-10/05/73	0	3	
FRHI0022	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/24/73-10/05/73	0	3	
FRHI0030	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/24/73-10/05/73	0	3	
FRHI0057	No	32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	07/09/81-07/09/81	0	1	
FRHI0043	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/01/62-05/28/76	13	46	
FRHI0045	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	04/29/76-11/01/83	7	26	
FRHI0057	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	16	128	
FRHI0058	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	01/30/76-08/27/76	0	7	
FRHI0096	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/10/83-05/10/83	0	1	
FRHI0086	No	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/03/86-06/03/86	0	1	
FRHI0086	No	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/03/86-06/03/86	0	1	
FRHI0034	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34223	ANTHRACENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34301	CHLOROBENZENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34311	CHLOROETHANE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0034	No	34323	CHRYSENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34371	ETHYLBENZENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0034	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34384	FLUORENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34413	METHYL BROMIDE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34418	METHYL CHLORIDE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0044	No	34423	METHYLENE CHLORIDE TOTWUG/L	07/29/76-07/29/76	0	1	
FRHI0086	No	34423	METHYLENE CHLORIDE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0034	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	34461	PHENANTHRENE TOTWUG/L	07/08/86-07/08/86	0	2	
FRHI0034	No	34472	PYRENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34475	TETRACHLOROETHYLENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0034	No	34480	THALLIUM DRY WGTBOTMG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34496	1,1-DICHLOROETHANE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0034	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	06/03/86-06/03/86	0	1	
FRHI0034	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	06/03/86-06/03/86	0	1	
FRHI0045	No	34664	PCB - 1221 WET WGTTISMG/KG	09/28/95-09/28/95	0	1	
FRHI0045	No	34667	PCB - 1232 WET WGTTISMG/KG	09/28/95-09/28/95	0	1	
FRHI0045	No	34669	PCB - 1248 WET WGTTISMG/KG	09/28/95-09/28/95	0	1	
FRHI0045	No	34670	PCB - 1260 WET WGTTISMG/KG	09/28/95-09/28/95	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0035	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-09/28/95	6	3	
FRHI0096	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/23/89-09/20/94	4	2	
FRHI0035	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/06/88-10/06/88	0	1	
FRHI0045	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/06/88-10/06/88	0	1	
FRHI0035	No	34685	ENDRIN WET WGTTISMG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	34685	ENDRIN WET WGTTISMG/KG	10/06/88-09/28/95	6	3	
FRHI0096	No	34685	ENDRIN WET WGTTISMG/KG	10/23/89-09/20/94	4	2	
FRHI0035	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/06/88-09/28/95	6	3	
FRHI0096	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/23/89-09/20/94	4	2	
FRHI0035	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/06/88-09/28/95	6	3	
FRHI0096	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/23/89-09/20/94	4	2	
FRHI0045	No	34689	PCB - 1242 WET WGTTISMG/KG	09/28/95-09/28/95	0	1	
FRHI0045	No	34690	PCB - 1254 WET WGTTISMG/KG	09/28/95-09/28/95	0	1	
FRHI0086	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	06/03/86-06/03/86	0	1	
FRHI0092	No	34790	SURFACTANTS, AS CTAS, WATER MG/L	10/10/96-10/10/96	0	1	
FRHI0092	No	34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34805	BARIUM, BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34880	IRON,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	34985	TIN,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0092	No	35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	0	1	
FRHI0043	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10/09/60-11/01/75	15	6	
FRHI0045	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/01/75-11/01/75	0	1	
FRHI0057	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-11/13/84	22	97	
FRHI0058	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/06/75-12/05/75	0	2	
FRHI0063	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	08/11/66-08/11/66	0	1	
FRHI0092	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/01/75-12/05/75	0	2	
FRHI0096	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-12/05/75	13	51	
FRHI0034	No	38823	ISOPROPALIN SEDDRYWGTUG/KG	07/08/86-07/08/86	0	2	
FRHI0035	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/27/94	0	1	
FRHI0045	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/28/95	1	2	
FRHI0096	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0035	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/27/94	0	1	
FRHI0045	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/28/95	1	2	
FRHI0096	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/27/94-09/27/94	0	1	
FRHI0045	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/27/94-09/28/95	1	2	
FRHI0096	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/27/94-09/27/94	0	1	
FRHI0045	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/27/94-09/28/95	1	2	
FRHI0096	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/23/89-09/20/94	4	2	
FRHI0035	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/06/88-09/27/94	5	2	
FRHI0045	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/06/88-09/28/95	6	3	
FRHI0096	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/23/89-09/20/94	4	2	
FRHI0092	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/30/96-04/08/97	0	11	
FRHI0035	No	39105	PERCENT FAT HEXANE EXTRACTION	10/06/88-09/27/94	5	2	
FRHI0045	No	39105	PERCENT FAT HEXANE EXTRACTION	10/06/88-09/28/95	6	3	
FRHI0096	No	39105	PERCENT FAT HEXANE EXTRACTION	10/23/89-09/20/94	4	2	
FRHI0086	No	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	06/03/86-06/03/86	0	1	
FRHI0035	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	5	2	
FRHI0045	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	6	3	
FRHI0096	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	5	2	
FRHI0045	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	6	3	
FRHI0096	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	5	2	
FRHI0045	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	6	3	
FRHI0096	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/06/88-09/28/95	6	3	
FRHI0096	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/89-09/20/94	4	2	
FRHI0035	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	5	2	
FRHI0045	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	6	3	
FRHI0096	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/06/88-09/27/94	5	2	
FRHI0045	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/06/88-09/28/95	6	3	
FRHI0096	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/89-09/20/94	4	2	
FRHI0034	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0035	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	5	2	
FRHI0045	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	6	3	
FRHI0096	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	4	2	
FRHI0035	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/06/88-09/27/94	5	2	
FRHI0096	No	39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/23/89-09/20/94	4	2	
FRHI0004	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0025	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0026	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0027	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0029	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0052	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0056	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0083	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0087	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0089	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0093	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	0	1	
FRHI0035	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/06/88-09/27/94	5	2	
FRHI0045	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/06/88-09/28/95	6	3	
FRHI0096	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/23/89-09/20/94	4	2	
FRHI0045	No	46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)	11/01/75-11/13/84	9	32	
FRHI0057	No	46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)	11/06/75-11/13/84	9	31	
FRHI0096	No	46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)	07/17/73-11/13/84	11	38	
FRHI0057	No	46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	06/19/62-10/16/80	18	30	
FRHI0096	No	46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	05/18/66-05/18/66	0	1	
FRHI0045	No	46008	PHYLUM NEMATODA, NEMATODES	11/17/76-09/08/81	4	9	
FRHI0057	No	46008	PHYLUM NEMATODA, NEMATODES	11/18/76-09/22/80	3	11	
FRHI0045	No	46014	FAMILY HIRUDIDAE, LEECHES	09/23/82-10/05/84	2	4	
FRHI0057	No	46014	FAMILY HIRUDIDAE, LEECHES	10/05/84-11/03/87	3	4	
FRHI0045	No	46018	FAMILY GAMMARIDAE, SCUD	09/23/82-10/05/84	2	5	
FRHI0057	No	46018	FAMILY GAMMARIDAE, SCUD	09/23/82-11/03/87	5	7	
FRHI0057	No	46025	FAMILY PERLODIDAE, STONEFLY W/GILLS ON SUBMENTUM	09/23/82-09/23/82	0	1	
FRHI0045	No	46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	09/23/82-10/05/84	2	2	
FRHI0057	No	46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	09/23/82-09/23/82	0	1	
FRHI0045	No	46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	10/05/84-11/13/87	3	5	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0057	No	46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	10/05/84-11/03/87	3	4	
FRHI0045	No	46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	10/19/83-10/05/84	0	3	
FRHI0057	No	46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	09/23/82-09/23/82	0	1	
FRHI0045	No	46084	FAMILY SIMULIIDAE, BLACK FLIES	10/05/84-11/13/87	3	4	
FRHI0045	No	46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	11/17/76-11/13/87	10	20	
FRHI0057	No	46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	11/18/76-11/03/87	10	19	
FRHI0045	No	46095	FAMILY PHYSIDAE, LUNG SNAILS	09/23/82-11/13/87	5	3	
FRHI0057	No	46095	FAMILY PHYSIDAE, LUNG SNAILS	10/05/84-11/03/87	3	4	
FRHI0045	No	46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	11/17/76-11/13/87	10	20	
FRHI0057	No	46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	11/18/76-11/03/87	10	19	
FRHI0045	No	46142	FAMILY POLYCENTROPIDAE, CADDISFLY NO/FT2	10/17/77-11/13/87	10	14	
FRHI0057	No	46142	FAMILY POLYCENTROPIDAE, CADDISFLY NO/FT2	09/23/82-11/03/87	5	6	
FRHI0035	No	46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	09/27/94-09/27/94	0	1	
FRHI0045	No	46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	09/27/94-09/28/95	1	2	
FRHI0096	No	46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	10/23/89-09/20/94	4	2	
FRHI0092	No	49266	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49267	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49269	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49270	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49271	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49272	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49274	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49275	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49276	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49277	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49278	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49279	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49280	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49316	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49317	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49318	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49319	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49320	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49321	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49322	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49324	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49325	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49326	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49327	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49328	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49329	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49330	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49331	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49332	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49335	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49338	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49339	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49341	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49342	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49343	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49344	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49345	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49346	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49347	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49348	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49349	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49350	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49351	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49381	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49382	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49383	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49384	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49387	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49388	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49389	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49390	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49391	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49392	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49393	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49394	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49395	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49396	INVALID PARAMETER	10/10/96-10/10/96	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0092	No	49397	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49398	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49399	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49400	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49401	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49402	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49403	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49404	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49405	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49406	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49407	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49408	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49409	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49410	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49411	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49413	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49421	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49422	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49424	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49426	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49427	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49428	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49429	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49430	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49431	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49433	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49434	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49435	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49436	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49437	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49438	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49439	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49441	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49442	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49443	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49444	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49446	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49449	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49450	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49451	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49452	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49454	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49455	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49457	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49458	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49459	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49460	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49461	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49466	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49467	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49468	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0092	No	49490	INVALID PARAMETER	10/10/96-10/10/96	0	1	
FRHI0045	No	50060	CHLORINE, TOTAL RESIDUAL (MG/L)	02/14/79-11/13/84	5	4	
FRHI0057	No	50060	CHLORINE, TOTAL RESIDUAL (MG/L)	03/14/84-11/13/84	0	3	
FRHI0096	No	50060	CHLORINE, TOTAL RESIDUAL (MG/L)	03/14/84-11/13/84	0	3	
FRHI0006	No	50700	INVALID PARAMETER	07/05/78-07/05/78	0	1	
FRHI0020	No	50700	INVALID PARAMETER	07/05/78-07/05/78	0	1	
FRHI0023	No	50700	INVALID PARAMETER	08/22/77-08/22/77	0	1	
FRHI0042	No	50700	INVALID PARAMETER	08/22/77-08/22/77	0	1	
FRHI0047	No	50700	INVALID PARAMETER	08/23/77-08/23/77	0	1	
FRHI0107	No	50700	INVALID PARAMETER	08/20/77-08/20/77	0	1	
FRHI0006	No	50760	INVALID PARAMETER	07/05/78-07/05/78	0	1	
FRHI0020	No	50760	INVALID PARAMETER	07/05/78-07/05/78	0	1	
FRHI0023	No	50760	INVALID PARAMETER	08/22/77-08/22/77	0	1	
FRHI0042	No	50760	INVALID PARAMETER	08/22/77-08/22/77	0	1	
FRHI0047	No	50760	INVALID PARAMETER	08/23/77-08/23/77	0	1	
FRHI0107	No	50760	INVALID PARAMETER	08/20/77-08/20/77	0	1	
FRHI0023	No	50761	INVALID PARAMETER	08/22/77-08/22/77	0	1	
FRHI0042	No	50761	INVALID PARAMETER	08/22/77-08/22/77	0	1	
FRHI0047	No	50761	INVALID PARAMETER	08/23/77-08/23/77	0	1	
FRHI0065	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	
FRHI0067	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0068	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	
FRHI0070	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	
FRHI0072	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	
FRHI0075	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	
FRHI0077	Yes	50788	INVALID PARAMETER	11/18/94-11/18/94	0	1	
FRHI0032	No	70222	WAVE HEIGHT (WMO CODE 1555)	06/03/75-06/03/75	0	1	
FRHI0041	No	70222	WAVE HEIGHT (WMO CODE 1555)	06/03/75-06/03/75	0	1	
FRHI0046	No	70222	WAVE HEIGHT (WMO CODE 1555)	06/03/75-06/03/75	0	1	
FRHI0060	No	70222	WAVE HEIGHT (WMO CODE 1555)	06/04/75-06/04/75	0	1	
FRHI0043	No	70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	09/26/73-12/19/73	0	4	
FRHI0001	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/28/65-10/28/65	0	1	
FRHI0002	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/03/79-08/11/81	2	5	
FRHI0012	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/12/63-07/12/63	0	1	
FRHI0024	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/07/49-02/07/49	0	1	
FRHI0028	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/10/74-10/31/74	0	2	
FRHI0033	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/27/69-03/27/69	0	1	
FRHI0043	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	16	175	
FRHI0053	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	1	4	
FRHI0055	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	0	1	
FRHI0058	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/70-12/02/70	0	1	
FRHI0062	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	0	1	
FRHI0073	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/01/68-07/01/68	0	1	
FRHI0074	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	0	1	
FRHI0078	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	1	4	
FRHI0079	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	1	4	
FRHI0080	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	0	1	
FRHI0082	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	1	4	
FRHI0084	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/19/81	1	4	
FRHI0088	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	1	4	
FRHI0090	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/19/81	1	4	
FRHI0091	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/20/81	1	4	
FRHI0092	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/01/70-04/08/97	26	15	
FRHI0094	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/20/81	1	4	
FRHI0099	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/22/80-09/04/80	0	2	
FRHI0100	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/27/81-08/27/81	0	1	
FRHI0101	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/19/81	1	4	
FRHI0103	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-09/05/80	1	3	
FRHI0104	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	1	4	
FRHI0105	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	1	4	
FRHI0106	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/19/81	1	4	
FRHI0108	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	1	4	
FRHI0109	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/26/81-08/26/81	0	1	
FRHI0110	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/03/79-08/19/81	2	8	
FRHI0111	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	1	4	
FRHI0112	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/26/81-08/26/81	0	1	
FRHI0113	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/20/81	1	4	
FRHI0012	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/12/63-07/12/63	0	1	
FRHI0024	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/07/49-02/07/49	0	1	
FRHI0043	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/25/73-06/25/73	0	1	
FRHI0058	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/02/70-12/02/70	0	1	
FRHI0073	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/01/68-07/01/68	0	1	
FRHI0079	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	1	2	
FRHI0084	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/19/81	1	2	
FRHI0088	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/19/81	1	2	
FRHI0090	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/19/81-08/19/81	0	1	
FRHI0091	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/20/81	1	2	
FRHI0092	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/01/70-08/19/81	10	3	
FRHI0101	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/19/81	1	2	
FRHI0104	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	1	2	
FRHI0105	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	1	2	
FRHI0106	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/19/81	1	2	
FRHI0108	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	1	2	
FRHI0109	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/81-08/26/81	0	1	
FRHI0110	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/19/81	1	2	
FRHI0111	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	1	2	
FRHI0112	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/81-08/26/81	0	1	
FRHI0113	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/29/79	0	1	
FRHI0001	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/28/65-10/28/65	0	1	
FRHI0002	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/03/79-08/11/81	2	5	
FRHI0033	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/69-03/27/69	0	1	
FRHI0043	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/25/67-03/27/69	1	6	
FRHI0053	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	1	4	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0073	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	07/01/68-07/01/68	0	1	
FRHI0078	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	1	4	
FRHI0079	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	1	4	
FRHI0082	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	1	4	
FRHI0084	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	1	4	
FRHI0088	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	1	4	
FRHI0090	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	1	4	
FRHI0091	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/20/81	1	4	
FRHI0092	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	1	4	
FRHI0094	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/20/81	1	4	
FRHI0099	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/22/80-09/04/80	0	2	
FRHI0101	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	1	4	
FRHI0103	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-09/05/80	1	3	
FRHI0104	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	1	4	
FRHI0105	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	1	4	
FRHI0106	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	1	4	
FRHI0108	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	1	4	
FRHI0110	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/03/79-08/19/81	2	8	
FRHI0111	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	1	4	
FRHI0113	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/20/81	1	4	
FRHI0001	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/28/65-10/28/65	0	1	
FRHI0002	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/03/79-08/11/81	2	5	
FRHI0012	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/12/63-07/12/63	0	1	
FRHI0033	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/27/69-03/27/69	0	1	
FRHI0043	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/25/67-12/19/73	6	38	
FRHI0053	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	1	2	
FRHI0058	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/02/70-12/02/70	0	1	
FRHI0073	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/01/68-07/01/68	0	1	
FRHI0078	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	1	2	
FRHI0079	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	1	3	
FRHI0082	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	1	2	
FRHI0084	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	1	4	
FRHI0088	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	1	3	
FRHI0090	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	1	2	
FRHI0091	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/20/81	1	3	
FRHI0092	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/01/70-08/19/81	10	4	
FRHI0094	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/20/81	1	2	
FRHI0101	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	1	3	
FRHI0103	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/30/79	0	1	
FRHI0104	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	1	3	
FRHI0105	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	1	4	
FRHI0106	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	1	3	
FRHI0108	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	1	3	
FRHI0110	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/03/79-08/19/81	2	8	
FRHI0111	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	1	3	
FRHI0113	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-09/05/80	1	2	
FRHI0065	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0067	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0068	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0070	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0072	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0075	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0077	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	0	1	
FRHI0035	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/06/88-09/27/94	5	2	
FRHI0045	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/06/88-09/28/95	6	3	
FRHI0096	No	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	09/20/94-09/20/94	0	1	
FRHI0092	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/30/96-09/18/96	0	6	
FRHI0043	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/18/72-12/19/73	1	4	
FRHI0057	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	01/04/72-12/18/72	0	3	
FRHI0096	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	01/04/72-01/04/72	0	1	
FRHI0005	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/08/87-04/07/88	0	2	
FRHI0013	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	0	11	
FRHI0016	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	07/19/73-09/12/74	1	4	
FRHI0021	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/18/96-09/03/97	1	6	
FRHI0028	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/24/73-10/31/74	1	4	
FRHI0032	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	12	10	
FRHI0036	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	07/19/73-10/10/74	1	8	
FRHI0041	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	12	10	
FRHI0045	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	9	117	
FRHI0046	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	12	18	
FRHI0048	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	04/26/74-10/10/74	0	7	
FRHI0050	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	0	12	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0051	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/04/75-07/29/87	12	11	
FRHI0057	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	9	115	
FRHI0060	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/04/75-07/29/87	12	17	
FRHI0063	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0081	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	07/20/73-07/20/73	0	1	
FRHI0092	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	04/30/96-04/08/97	0	11	
FRHI0095	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	0	10	
FRHI0096	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	9	118	
FRHI0032	No	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	4	5	
FRHI0041	No	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	4	5	
FRHI0046	No	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	4	10	
FRHI0051	No	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	4	5	
FRHI0060	No	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	4	10	
FRHI0061	No	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	08/15/90-08/26/92	2	2	
FRHI0002	No	71825	ACIDITY, TOTAL (MG/L AS H)	06/14/79-08/03/79	0	2	
FRHI0012	No	71825	ACIDITY, TOTAL (MG/L AS H)	07/12/63-07/12/63	0	1	
FRHI0033	No	71825	ACIDITY, TOTAL (MG/L AS H)	07/02/68-07/02/68	0	1	
FRHI0043	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/01/57-12/19/73	16	149	
FRHI0053	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	1	4	
FRHI0073	No	71825	ACIDITY, TOTAL (MG/L AS H)	07/01/68-07/01/68	0	1	
FRHI0078	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	1	4	
FRHI0079	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	1	4	
FRHI0082	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	1	4	
FRHI0084	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-09/05/80	1	3	
FRHI0088	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	1	4	
FRHI0090	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/19/81	1	4	
FRHI0091	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/20/81	1	4	
FRHI0092	No	71825	ACIDITY, TOTAL (MG/L AS H)	07/02/68-08/19/81	13	5	
FRHI0094	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/20/81	1	4	
FRHI0099	No	71825	ACIDITY, TOTAL (MG/L AS H)	04/22/80-09/04/80	0	2	
FRHI0100	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/27/81-08/27/81	0	1	
FRHI0101	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-09/04/80	1	3	
FRHI0103	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-09/05/80	1	3	
FRHI0104	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-09/05/80	1	3	
FRHI0105	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	1	4	
FRHI0106	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/19/81	1	4	
FRHI0108	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	1	4	
FRHI0109	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/26/81-08/26/81	0	1	
FRHI0110	No	71825	ACIDITY, TOTAL (MG/L AS H)	06/14/79-04/23/80	0	4	
FRHI0111	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	1	4	
FRHI0112	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/26/81-08/26/81	0	1	
FRHI0113	No	71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/20/81	1	4	
FRHI0110	No	71830	HYDROXIDE ION (MG/L AS OH)	08/19/81-08/19/81	0	1	
FRHI0043	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	06/25/73-06/25/73	0	1	
FRHI0043	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/25/73-06/25/73	0	1	
FRHI0043	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/01/57-09/21/58	0	35	
FRHI0001	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/28/65-07/02/68	2	2	
FRHI0012	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/12/63-07/12/63	0	1	
FRHI0024	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/07/49-02/07/49	0	1	
FRHI0033	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/02/68-03/27/69	0	2	
FRHI0043	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	12	185	
FRHI0058	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/02/70-12/02/70	0	1	
FRHI0073	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/01/68-07/01/68	0	1	
FRHI0092	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/02/68-12/01/70	2	2	
FRHI0043	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	06/25/73-06/25/73	0	1	
FRHI0001	No	71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	10/28/65-10/28/65	0	1	
FRHI0043	No	71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	10/04/69-09/25/70	0	36	
FRHI0001	No	71885	IRON (UG/L AS FE)	10/28/65-10/28/65	0	1	
FRHI0043	No	71885	IRON (UG/L AS FE)	10/09/60-09/25/70	9	167	
FRHI0043	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	10/04/68-09/25/70	1	69	
FRHI0043	No	71888	PHOSPHORUS, TOTAL SOLUBLE AS PO4 - MG/L	01/19/70-06/16/70	0	3	
FRHI0065	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/13/92-09/13/92	0	1	
FRHI0072	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/13/92-09/13/92	0	1	
FRHI0021	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/18/96-09/03/97	1	6	
FRHI0045	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/10/84-08/05/86	1	2	
FRHI0057	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/19/72-08/05/86	13	3	
FRHI0086	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/03/86-06/03/86	0	1	
FRHI0096	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/26/72-08/14/86	13	5	
FRHI0096	No	71918	ARSENIC,TOTAL IN FISH,DRY WEIGHT BASIS	10/23/89-10/23/89	0	1	
FRHI0002	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0034	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/08/86-07/08/86	0	2	
FRHI0065	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/13/92-09/13/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0072	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/13/92-09/13/92	0	1	
FRHI0110	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/03/79-08/03/79	0	1	
FRHI0035	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/27/94-09/27/94	0	1	
FRHI0045	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/27/94-09/28/95	1	2	
FRHI0096	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/20/94-09/20/94	0	1	
FRHI0096	No	71932	ZINC,TOTAL IN FISH,DRY WEIGHT BASIS	10/23/89-10/23/89	0	1	
FRHI0096	No	71934	LEAD TOTAL IN FISH DRY WEIGHT BASIS	10/23/89-10/23/89	0	1	
FRHI0035	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/27/94	5	2	
FRHI0045	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/28/95	6	3	
FRHI0096	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/20/94-09/20/94	0	1	
FRHI0035	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/27/94	5	2	
FRHI0045	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/28/95	6	3	
FRHI0096	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/20/94-09/20/94	0	1	
FRHI0035	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/27/94	5	2	
FRHI0045	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/28/95	6	3	
FRHI0096	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/20/94-09/20/94	0	1	
FRHI0035	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-09/27/94	5	2	
FRHI0045	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-09/28/95	6	3	
FRHI0096	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/20/94-09/20/94	0	1	
FRHI0096	No	71941	CADMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	10/23/89-10/23/89	0	1	
FRHI0096	No	71942	COPPER,TOTAL IN FISH-DRY WEIGHT BASIS	10/23/89-10/23/89	0	1	
FRHI0096	No	71943	CHROMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	10/23/89-10/23/89	0	1	
FRHI0043	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/01/57-09/21/58	0	35	
FRHI0002	No	72005	SAMPLE SOURCE CODE (BM WELL DATA)	08/03/79-08/03/79	0	1	
FRHI0110	No	72005	SAMPLE SOURCE CODE (BM WELL DATA)	08/03/79-08/03/79	0	1	
FRHI0058	No	72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	12/02/70-12/02/70	0	1	
FRHI0058	No	72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	12/02/70-12/02/70	0	1	
FRHI0092	No	72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	12/01/70-12/01/70	0	1	
FRHI0058	No	72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	12/02/70-12/02/70	0	1	
FRHI0092	No	72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	12/01/70-12/01/70	0	1	
FRHI0011	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	04/24/73-10/05/73	0	3	
FRHI0022	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	04/24/73-10/05/73	0	3	
FRHI0030	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	04/24/73-10/05/73	0	3	
FRHI0054	Yes	74010	IRON, TOTAL (MG/L AS FE)	10/27/88-07/01/93	4	21	
FRHI0055	Yes	74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0059	No	74010	IRON, TOTAL (MG/L AS FE)	11/28/89-07/01/93	3	48	
FRHI0062	No	74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0069	Yes	74010	IRON, TOTAL (MG/L AS FE)	06/21/91-06/07/96	4	45	
FRHI0071	Yes	74010	IRON, TOTAL (MG/L AS FE)	04/04/94-06/07/96	2	2	
FRHI0074	Yes	74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0076	Yes	74010	IRON, TOTAL (MG/L AS FE)	04/04/94-06/07/96	2	5	
FRHI0080	Yes	74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	0	1	
FRHI0034	No	75039	TRICHLOROBENZENE,1,2,4 SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75040	HEXACHLOROBUTADIENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75041	BHC,ALPHA- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75042	HEXACHLOROBENZENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75043	PENTACHLOROANISOLE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75044	HEPTACHLOR SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75045	HEPTACHLOR EPOXIDE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75046	DDE,P,P'-(4,4'-DDE) SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75047	DIELDRIN SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75048	ENDRIN SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75050	ALACHLOR UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75051	DICHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75052	OCTACHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75054	DECACHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	75558	BIPHENYL SEDIMENT,DRY WGT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0086	No	77041	CARBON DISULFIDE WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	77103	2-HEXANONE WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	77128	STYRENE WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	77134	1,3-DIMETHYLBENZENE(M-XYLENE) WHOLE WATER,UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	78133	4-METHYL-2-PENTANONE IN WATER UG/L	06/03/86-06/03/86	0	1	
FRHI0065	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0067	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0068	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0070	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0072	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0075	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0077	Yes	78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	0	1	
FRHI0035	No	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/27/94	0	1	
FRHI0045	No	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/28/95	1	2	
FRHI0096	No	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	10/23/89-09/20/94	4	2	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0035	No	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/27/94	0	1	
FRHI0045	No	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/28/95	1	2	
FRHI0096	No	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	10/23/89-09/20/94	4	2	
FRHI0034	No	78639	METHYLCHRYSENE METHYLBENZANTHRACENE IN SED UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	78657	NONACHLOR, TRANS, SEDIMENT, DRY WEIGHT, UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	78817	TRIMETHYL PHENANTHRENE IN SEDIMENT DRY WGT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	78828	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	78875	MONOCHLOROBIPHENYLS TOTAL IN SED DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	78924	NONACHLOR, CIS, SEDIMENT, DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79785	TRICHLOROBENZENE,1,3,5- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79786	TRICHLOROBENZENE,1,2,3- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79787	TETRACHLOROBENZENE,1,2,4,5- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79789	TETRACHLOROBENZENE,1,2,3,4- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79790	PENTACHLOROBENZENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79791	DIPHENYL DISULFIDE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79792	CHLORPYRIFOS SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79793	OCTACHLOROSTYRENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79794	OXYCHLORDANE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79795	CHLORDANE, TRANS SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79796	CHLORDANE, CIS SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79797	NITROFEN SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79798	METHOXYCHLOR SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79799	DICOFOL (KELTHANE) SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	79800	MIREX SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	0	2	
FRHI0043	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	03/08/72-03/08/72	0	1	
FRHI0043	No	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	03/08/72-03/08/72	0	1	
FRHI0043	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	03/08/72-03/08/72	0	1	
FRHI0043	No	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	03/08/72-03/08/72	0	1	
FRHI0002	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/14/79-08/11/81	2	6	
FRHI0005	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/10/88-06/10/88	0	1	
FRHI0092	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/30/96-09/18/96	0	6	
FRHI0110	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/14/79-08/11/81	2	6	
FRHI0002	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/14/79-08/11/81	2	6	
FRHI0110	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/14/79-08/11/81	2	6	
FRHI0005	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FRHI0086	No	80353	XYLENE ISOMERS, O+P, WHOLE WATER UG/L	06/03/86-06/03/86	0	1	
FRHI0044	No	81491	METHYL PALMITATE WHL WATER SMPL UG/L	07/29/76-07/29/76	0	1	
FRHI0044	No	81494	METHYL STEARATE WHL WATER SMPL UG/L	07/29/76-07/29/76	0	1	
FRHI0086	No	81552	ACETONE WHL WATER SMPL UG/L	06/03/86-06/03/86	0	1	
FRHI0086	No	81595	METHYL ETHYL KETONE WHL WATER SMPL UG/L	06/03/86-06/03/86	0	1	
FRHI0035	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/06/88-09/27/94	5	2	
FRHI0045	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/06/88-09/28/95	6	3	
FRHI0096	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/23/89-09/20/94	4	2	
FRHI0034	No	81618	TREFLAN(TRIFLURALIN) IN SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0035	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/06/88-09/27/94	5	2	
FRHI0045	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/06/88-09/28/95	6	3	
FRHI0096	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/23/89-09/20/94	4	2	
FRHI0035	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/27/94-09/27/94	0	1	
FRHI0045	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/27/94-09/28/95	1	2	
FRHI0096	No	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/23/89-09/20/94	4	2	
FRHI0034	No	81808	PENTACHLORONITROBENZENE IN SEDIMENT DRY WGT UG/KG	07/08/86-07/08/86	0	2	
FRHI0035	No	81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	09/27/94-09/27/94	0	1	
FRHI0045	No	81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	09/27/94-09/27/94	0	1	
FRHI0096	No	81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	09/20/94-09/20/94	0	1	
FRHI0034	No	81876	TRICHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	81878	TETRACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	81880	PENTACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	81882	HEXACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	81884	HEPTACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0034	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	0	2	
FRHI0035	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/27/94-09/27/94	0	1	
FRHI0045	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/27/94-09/28/95	1	2	
FRHI0096	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/23/89-09/20/94	4	2	
FRHI0002	No	82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	08/28/80-08/28/80	0	1	
FRHI0110	No	82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	08/28/80-08/28/80	0	1	
FRHI0053	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0078	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0079	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0082	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0084	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0088	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0090	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 02/07/49 To 09/03/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FRHI0091	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0092	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0094	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0100	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/27/81-08/27/81	0	1	
FRHI0101	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0104	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0105	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0106	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0108	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0109	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/26/81-08/26/81	0	1	
FRHI0110	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	0	1	
FRHI0111	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0112	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/26/81-08/26/81	0	1	
FRHI0113	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	0	1	
FRHI0045	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	5	70	
FRHI0057	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	5	67	
FRHI0096	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	5	67	
FRHI0006	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/78-07/05/78	0	1	
FRHI0020	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/78-07/05/78	0	1	
FRHI0023	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	0	1	
FRHI0042	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	0	1	
FRHI0047	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/23/77-08/23/77	0	1	
FRHI0107	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/20/77-08/20/77	0	1	
FRHI0002	No	82398	SAMPLING METHOD (CODES)	08/03/79-08/03/79	0	1	
FRHI0092	No	82398	SAMPLING METHOD (CODES)	09/18/96-09/18/96	0	1	
FRHI0110	No	82398	SAMPLING METHOD (CODES)	08/03/79-08/03/79	0	1	
FRHI0096	No	82550	OSMOTIC PRESSURE,TOTAL,UNF WHL WTR,MILLIOSMOLES/KG	06/08/81-09/17/81	0	3	
FRHI0035	No	83500	SAMPLE, AREA SQUARE CENTIMETERS	10/06/88-08/29/91	2	4	
FRHI0045	No	83500	SAMPLE, AREA SQUARE CENTIMETERS	10/06/88-09/06/91	2	6	
FRHI0096	No	83500	SAMPLE, AREA SQUARE CENTIMETERS	08/25/88-10/09/91	3	4	
FRHI0003	No	83507	POOL, AVERAGE DEPTH METER	07/29/96-07/29/96	0	1	
FRHI0009	No	83507	POOL, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0010	No	83507	POOL, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0015	No	83507	POOL, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0003	No	83508	RIFFLE, AVERAGE DEPTH METER	07/29/96-07/29/96	0	1	
FRHI0007	No	83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0009	No	83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0010	No	83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0015	No	83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	0	1	
FRHI0003	No	83509	STREAM, WIDTH METER	07/29/96-07/29/96	0	1	
FRHI0007	No	83509	STREAM, WIDTH METER	07/23/96-07/23/96	0	1	
FRHI0009	No	83509	STREAM, WIDTH METER	07/23/96-07/23/96	0	1	
FRHI0010	No	83509	STREAM, WIDTH METER	07/23/96-07/23/96	0	1	
FRHI0015	No	83509	STREAM, WIDTH METER	07/23/96-07/23/96	0	1	
FRHI0005	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/07/88-08/16/88	0	2	
FRHI0024	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	02/07/49-02/07/49	0	1	
FRHI0109	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/26/81-08/26/81	0	1	
FRHI0112	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/26/81-08/26/81	0	1	
FRHI0005	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/07/88-08/16/88	0	2	
FRHI0024	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	02/07/49-02/07/49	0	1	
FRHI0109	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/26/81-08/26/81	0	1	
FRHI0112	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/26/81-08/26/81	0	1	
FRHI0035	No	84007	ANATOMY ALPHA CODE	10/06/88-09/27/94	5	2	
FRHI0045	No	84007	ANATOMY ALPHA CODE	10/06/88-09/28/95	6	3	
FRHI0096	No	84007	ANATOMY ALPHA CODE	10/23/89-09/20/94	4	2	
FRHI0003	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	07/29/96-07/29/96	0	1	
FRHI0021	No	84030	CLOUD AMOUNT ALPHA WEATHER CODES	06/18/96-09/03/97	1	6	
FRHI0021	No	84031	PHYSICAL WEATHER ALPHA WEATHER CODES	06/18/96-06/06/97	0	3	
FRHI0021	No	84032	STREAM CONDITION ALPHA WEATHER CODES	06/18/96-09/03/97	1	6	
FRHI0035	No	84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE	10/06/88-08/07/92	3	5	
FRHI0045	No	84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE	10/06/88-08/07/92	3	8	
FRHI0096	No	84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE	08/25/88-10/09/91	3	4	

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

Station-By-Station Results

Station Inventory for Station: FRHI0001

NPS Station ID: FRHI0001
LAT/LON: 39.795559/ -79.796392
Agency: 112WRD
Date Created: / /
Location: GEORGES CREEK AT SMITHFIELD, PA.
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072590
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005027011.34
RF3 Mile Point: 11.34
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/28/65-07/02/68	2	15.75	15.75	23.	8.5	105.125	10.253	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/28/65-07/02/68	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	10/28/65-07/02/68	2	9.5	9.5	15.	4.	60.5	7.778	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/28/65-07/02/68	2	235.	235.	272.	198.	2738.	52.326	**	**	**	**
00400	PH (STANDARD UNITS)	10/28/65-07/02/68	2	7.3	7.3	7.6	7.	0.18	0.424	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/28/65-07/02/68	2	7.204	7.204	7.6	7.	0.199	0.446	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/65-07/02/68	2	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/28/65-07/02/68	2	38.	38.	48.	28.	200.	14.142	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/28/65-07/02/68	2	46.5	46.5	59.	34.	312.5	17.678	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/28/65-07/02/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/28/65-07/02/68	2	77.5	77.5	87.	68.	180.5	13.435	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/28/65-07/02/68	2	39.	39.	40.	38.	2.	1.414	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/28/65-07/02/68	2	23.	23.	26.	20.	18.	4.243	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/28/65-07/02/68	2	4.7	4.7	5.2	4.2	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/28/65-10/28/65	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/28/65-07/02/68	2	5.85	5.85	11.	0.7	53.045	7.283	**	**	**	**
00932	SODIUM, PERCENT	10/28/65-10/28/65	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/28/65-10/28/65	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/28/65-07/02/68	2	10.	10.	13.	7.	18.	4.243	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/28/65-07/02/68	2	51.5	51.5	54.	49.	12.5	3.536	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/28/65-10/28/65	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/28/65-10/28/65	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/28/65-10/28/65	1	172.	172.	172.	172.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/28/65-10/28/65	1	163.	163.	163.	163.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/28/65-10/28/65	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/28/65-07/02/68	2	5.25	5.25	6.6	3.9	3.645	1.909	**	**	**	**
71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	10/28/65-10/28/65	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	10/28/65-10/28/65	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

EPA Water Quality Criteria Analysis for Station: FRHI0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
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.	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: FRHI0002

NPS Station ID: FRHI0002
LAT/LON: 39.783615/ -79.810837
Agency: 112WRD
Date Created: 09/08/79
Location: MOUNTAIN RN AT RUBLE MILLS, PA
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072594
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005039
RF1 Mile Point: 3.030
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020003006600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/79-08/11/81	6	16.5	15.083	25.5	2.5	74.942	8.657	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/79-08/11/81	6	13.	20.333	62.	3.	461.067	21.472	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/79-08/11/81	6	147.5	157.167	255.	113.	2772.167	52.651	**	**	**	**
00400	PH (STANDARD UNITS)	06/14/79-08/11/81	6	7.6	7.483	8.	6.7	0.218	0.467	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/14/79-08/11/81	6	7.6	7.248	8.	6.7	0.284	0.533	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/79-08/11/81	6	0.025	0.056	0.2	0.01	0.005	0.073	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/24/81-08/11/81	2	8.2	8.2	8.9	7.5	0.98	0.99	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/24/81-08/11/81	2	7.784	7.784	8.9	7.5	1.326	1.152	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/81-08/11/81	2	0.016	0.016	0.032	0.001	0.	0.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/79-08/11/81	6	32.	32.167	52.	18.	138.567	11.771	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/14/79-08/03/79	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	08/28/80-08/28/80	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/79-08/11/81	6	24.5	32.	75.	18.	454.8	21.326	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/79-08/03/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	06/14/79-08/11/81	6	275.	346.667	680.	140.	49906.667	223.398	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/14/79-08/11/81	6	295.	381.667	700.	170.	46856.667	216.464	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/14/79-08/11/81	6	25.	35.	90.	10.	830.	28.81	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/79-08/03/79	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/14/79-08/11/81	6	20.	16.667	30.	0.	186.667	13.663	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/14/79-08/11/81	6	50.	68.333	160.	30.	2336.667	48.339	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/14/79-08/11/81	6	45.	53.333	160.	10.	3066.667	55.377	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/79-08/03/79	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/79-08/03/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/79-08/03/79	1	6700.	6700.	6700.	6700.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/03/79-08/11/81	5	73.	85.6	105.	73.	297.8	17.257	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/03/79-08/11/81	5	2.84	4.492	12.2	0.74	20.357	4.512	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/03/79-08/11/81	5	0.1	0.116	0.14	0.1	0.	0.022	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	06/14/79-08/03/79	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/03/79-08/03/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/14/79-08/11/81	6	6.	8.5	23.	1.	59.1	7.688	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/14/79-08/11/81	6	0.2	0.8	3.8	0.01	2.178	1.476	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	08/28/80-08/28/80	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

EPA Water Quality Criteria Analysis for Station: FRHI0002

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	6	0	0.00	3	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	3	0	0.00				3	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			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00				3	0	0.00			

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

Station Inventory for Station: FRHI0003

NPS Station ID: FRHI0003 LAT/LON: 39.693615/ -79.816670 Agency: 21WVINST Date Created: 02/01/97
Location: Darnell Hollow at Coopers Rock Forest FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): MC-02-A
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: Ohio River Elevation: 1100 Water Body Id: WVMC-2-A
Minor Basin: Monongahela River / Cheat River ECO Region: 67M
RF1 Index: 05020004001 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
Darnell Hollow below County Route 69/2 at Coopers Rock State Forest, Monongalia County, West Virginia.
> Lake Lynn, WV Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 37 30 Long. 79 45 00 **>

Parameter Inventory for Station: FRHI0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	07/29/96-07/29/96	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/96-07/29/96	1	17.2	17.2	17.2	17.2	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/29/96-07/29/96	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/29/96-07/29/96	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/96-07/29/96	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/96-07/29/96	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/96-07/29/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/29/96-07/29/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/29/96-07/29/96	1	1.477	1.477	1.477	1.477	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			30.								
83507	POOL, AVERAGE DEPTH METER	07/29/96-07/29/96	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
83508	RIFFLE, AVERAGE DEPTH METER	07/29/96-07/29/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/29/96-07/29/96	1	5.	5.	5.	5.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0004

NPS Station ID: FRHI0004 LAT/LON: 39.741670/ -79.823337 Agency: 21PAFISH Date Created: 09/22/79
Location: PT. MARION-FAYETTE CO.-GRASSY RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII38PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020004 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003801.02 RF3 Mile Point: 1.70 Distance from RF3: 0.04 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0005

NPS Station ID: FRHI0005
LAT/LON: 39.841948/ -79.825559
Agency: 112WRD
Date Created: 07/29/89
Location: MEADOW RUN AT OUTLET OF DEER LAKE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 395031079493201
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020006
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020006
RF1 Mile Point: 0.000
Distance from RF1: 11.10
On/Off RF1:
RF3 Index: 05020004026600.00
RF3 Mile Point: 0.91
Distance from RF3: 0.17
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/08/87-08/16/88	4	16.45	14.125	22.1	1.5	80.736	8.985	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/08/87-08/16/88	4	6.	8.501	22.	0.005	94.972	9.745	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/08/87-08/16/88	4	58.	102.5	242.	52.	8659.667	93.057	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/16/88	3	7.8	7.133	8.7	4.9	3.943	1.986	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-08/16/88	3	7.	7.	7.2	6.8	0.04	0.2	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-08/16/88	3	7.	6.97	7.2	6.8	0.041	0.203	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-08/16/88	3	0.1	0.107	0.158	0.063	0.002	0.048	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/08/87-04/07/88	2	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/08/87-04/07/88	2	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/08/87-04/07/88	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/08/87-08/16/88	4	13.	25.	62.	12.	609.333	24.685	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/08/87-08/16/88	4	65.	62.75	120.	1.	2660.917	51.584	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/08/87-08/16/88	4 ##	1.5	22.	84.	1.	1708.667	41.336	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/08/87-08/16/88	4	1.615	1.573	1.66	1.4	0.014	0.12	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/08/87-08/16/88	4	4.	4.5	6.	4.	1.	1.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/08/87-08/16/88	4	15.5	14.	20.	5.	44.667	6.683	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/08/87-08/16/88	4	552.	8062.	30800.	344.	229794822.	15158.985	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/08/87-08/16/88	4	158.5	1861.5	7070.	59.	12061427.	3472.957	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/08/87-08/16/88	4 ##	5.	8.25	18.	5.	42.25	6.5	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/08/87-08/16/88	4	89.	92.	165.	25.	4049.333	63.634	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/08/87-04/07/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/10/88-06/10/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0005

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------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.	3	0	0.00	1	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.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: FRHI0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	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: FRHI0006

NPS Station ID: FRHI0006
LAT/LON: 39.730198/ -79.830115
Agency: 11NPSWRD
Date Created: 10/25/97
Location: PAFA536R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FRHI_NURE_15 /4070668
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE MONITORING STATION IS LOCATED ON THE LAKE LYNN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING OUTSIDE FRIENDSHIP HILL NATIONAL HISTORIC SITE (NPS). SAMPLES WERE FILTERED THROUGH A 0.8 UM FILTER AT THE SITE. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATABASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATABASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER LABORATORY. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/78-07/05/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	3020.	3020.	3020.	3020.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/78-07/05/78	1	3010.	3010.	3010.	3010.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/78-07/05/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/78-07/05/78	1	35.	35.	35.	35.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
50700	INVALID PARAMETER	07/05/78-07/05/78	1	69.	69.	69.	69.	0.	0.	**	**	**	**
50760	INVALID PARAMETER	07/05/78-07/05/78	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/78-07/05/78	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: FRHI0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
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

Station Inventory for Station: FRHI0007

NPS Station ID: FRHI0007 | LAT/LON: 39.705198/ -79.830977 | Agency: 21WVINST | Date Created: 10/12/96
Location: Morgans Run near Cheat Neck, W.Va. | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): MC-02
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: Ohio River | Elevation: 890 | Water Body Id: WVMC-1
Minor Basin: Monongahela River / Cheat River | ECO Region: 69M
RF1 Index: 05020004001 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
Morgans Run above County Route 71 Highway Bridge about 3 Miles North- east of Community of Cheat Neck, Monongalia County, West Virginia.
> Lake Lynn, PA-WV Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 37 30 Long. 79 45 00 **>

Parameter Inventory for Station: FRHI0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	1	17.2	17.2	17.2	17.2	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	1	105.	105.	105.	105.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.49	7.49	7.49	7.49	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.49	7.49	7.49	7.49	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/96-07/23/96	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	350.	350.	350.	350.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	2.544	2.544	2.544	2.544	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			350.								
83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/23/96-07/23/96	1	12.	12.	12.	12.	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: FRHI0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
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: FRHI0008

NPS Station ID: FRHI0008 LAT/LON: 39.721115/ -79.832781 Agency: 11EPALES Date Created: / /
Location: RUBLES RUN FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 5402B1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: T/LAKE LYNN Elevation: 0 Water Body Id:
Minor Basin: BANK ALONG RD NEAR MOUTH 3 E OF LK LYNN ECO Region:
RF1 Index: 05020004 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020004000112.13 RF3 Mile Point: 12.13 Distance from RF3: 0.02 On/Off RF3:
Description:
BANK SAMPLE ALONG UNIMPROVED ROAD NEAR MOUTH APPROX 3 MI E OF LAKE LYNN

Parameter Inventory for Station: FRHI0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.016	0.02	0.058	0.003	0.	0.015	0.004	0.01	0.03	0.047
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.001	0.001	0.003	0.001	0.	0.001	0.001	0.001	0.002	0.003
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.88	0.856	1.52	0.056	0.146	0.382	0.213	0.663	1.05	1.43
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	14	0.265	0.391	2.	0.05	0.257	0.507	0.05	0.05	0.525	1.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/73-06/22/74	14	0.88	0.857	1.52	0.06	0.146	0.382	0.215	0.663	1.05	1.43
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/73-06/22/74	13	0.015	0.015	0.04	0.003	0.	0.01	0.004	0.008	0.02	0.034
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	14 ##	0.003	0.005	0.013	0.003	0.	0.003	0.003	0.003	0.007	0.012

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

EPA Water Quality Criteria Analysis for Station: FRHI0008

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	4	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

Station Inventory for Station: FRHI0009

NPS Station ID: FRHI0009 | LAT/LON: 39.680921/ -79.836753 | Agency: 21WVINST | Date Created: 09/28/96
Location: Birch Hollow near Cheat Neck, W.Va. | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): MC-02.5-A
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: Ohio River | Elevation: 1060 | Water Body Id: WVMC-2.5-A
Minor Basin: Monongahela River / Cheat River | ECO Region: 69M
RF1 Index: 05020004001 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
Birch Hollow above private bridge alongside County 69/13 Highway 1 Mile Southeast of Community of Cheat Neck, Monongalia County, West Virginia. **> Lake Lynn, PA-WV Quadrangle 7.5 Minute Topographic Map <**
<** Southeast Corner Lat. 39 37 30 Long. 79 45 00 **>

Parameter Inventory for Station: FRHI0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	1	18.1	18.1	18.1	18.1	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/96-07/23/96	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	3000.	3000.	3000.	3000.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	3.477	3.477	3.477	3.477	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3000.								
83507	POOL, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/23/96-07/23/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
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: FRHI0010

NPS Station ID: FRHI0010 | LAT/LON: 39.680921/ -79.840171 | Agency: 21WVINST | Date Created: 09/28/96
Location: Coles Run at Sunset Beach, W.Va. | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): MC-02.5
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: Ohio River | Elevation: 920 | Water Body Id: WVMC-2.5
Minor Basin: Monongahela River / Cheat River | ECO Region: 69M
RF1 Index: 05020004001 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
Coles Run above County Route 88 Highway Bridge at the Community of Sunset Beach, Monongalia County, West Virginia.
> Lake Lynn, PA-WV Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 37 30 Long. 79 45 00 **>

Parameter Inventory for Station: FRHI0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	1	18.2	18.2	18.2	18.2	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	1	208.	208.	208.	208.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.44	7.44	7.44	7.44	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.44	7.44	7.44	7.44	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/96-07/23/96	1	0.036	0.036	0.036	0.036	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	100.	100.	100.	100.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			100.								
83507	POOL, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/23/96-07/23/96	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0011

NPS Station ID: FRHI0011 | LAT/LON: 39.715281/ -79.853615 | Agency: 11EPALES | Date Created: / /
Location: LAKE LYNN RESERVOIR | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 540203
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 55 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 05020004001 | RF1 Mile Point: 4.350 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020004000109.95 | RF3 Mile Point: 10.59 | Distance from RF3: 0.03 | On/Off RF3:
Description:
MID-CHANNEL, 1/4 MILE SOUTHEAST OF DAM. CAUTION: POWERLINES NEAR DAM.
COMMENTS: ULE 10, NO AQUATIC VEGETATION NOTED; WATER SEVERAL FEET BELOW MAXIMUM POOL LEVEL.
7-28 ULE 11,LIGHT VERY CLEAR GREEN; NO SURF OR HIGHER AQATICS; 1% LIGHT AT 36FT;CONDCTIVITY HIGH BUT TURBIDITY LOW; DEPTH 81 FT 10-5 ULE 11; PEA GREEN COLOR; LIGHT BROWN SCUM FLOATING SPARCELY; LIGHT POPULATION ON WEST SHORELINE; STEEP FORESTED SHORELINE; DEPTH 78 FT
USGS MAP: LAKE LYNN QUAD

Parameter Inventory for Station: FRHI0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/73-10/05/73	19	19.8	19.026	26.6	11.1	25.961	5.095	13.2	15.1	22.7	26.5
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/24/73-07/28/73	13	92.	90.538	95.	79.	22.936	4.789	80.6	89.	93.	94.6
00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/24/73-10/05/73	3	120.	124.	144.	108.	336.	18.33	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/28/73-10/05/73	12	161.5	146.583	211.	89.	1397.174	37.379	90.8	103.	167.	198.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/73-10/05/73	19	432.	507.737	1329.	60.	181773.538	426.349	60.	80.	863.	1088.
00300	OXYGEN, DISSOLVED MG/L	04/24/73-10/05/73	16	7.6	7.175	10.6	0.2	8.653	2.942	1.6	5.25	9.65	10.25
00400	PH (STANDARD UNITS)	04/24/73-10/05/73	19	5.4	5.	6.3	3.9	0.629	0.793	3.9	4.1	5.5	5.9
00400	CONVERTED PH (STANDARD UNITS)	04/24/73-10/05/73	19	5.4	4.457	6.3	3.9	0.941	0.97	3.9	4.1	5.5	5.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/73-10/05/73	19	3.981	34.951	125.893	0.501	2017.692	44.919	1.259	3.162	79.433	125.893
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/73-10/05/73	19 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/73-10/05/73	19	0.1	0.215	1.77	0.03	0.166	0.407	0.03	0.04	0.18	0.72
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/73-10/05/73	19	0.4	0.458	2.3	0.1	0.237	0.487	0.1	0.2	0.4	1.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/73-10/05/73	19	0.36	0.368	0.52	0.03	0.017	0.13	0.22	0.29	0.5	0.51
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/73-10/05/73	19	0.006	0.009	0.044	0.004	0.	0.009	0.004	0.004	0.009	0.019
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/73-10/05/73	19	0.002	0.003	0.007	0.001	0.	0.002	0.001	0.001	0.004	0.005
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/24/73-10/05/73	3	1.6	3.317	8.1	0.25	17.616	4.197	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	04/24/73-10/05/73	3	78.	71.333	81.	55.	202.333	14.224	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	16	2	0.13	10	2	0.20				6	0	0.00			
00400	PH	Other-Hi Lim.	9.	19	0	0.00	12	0	0.00				7	0	0.00			
		Other-Lo Lim.	6.5	19	19	1.00	12	12	1.00				7	7	1.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	19	0	0.00	12	0	0.00				7	0	0.00			

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

Station Inventory for Station: FRHI0012

NPS Station ID: FRHI0012
LAT/LON: 39.720837/ -79.855560
Agency: 112WRD
Date Created: / /
Location: CHEAT RIVER @ LAKE LYNN, PA
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071600
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005027000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/63-07/12/63	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/12/63-07/12/63	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/63-07/12/63	1	122.	122.	122.	122.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/12/63-07/12/63	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/12/63-07/12/63	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/12/63-07/12/63	1	25.119	25.119	25.119	25.119	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/12/63-07/12/63	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/12/63-07/12/63	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/12/63-07/12/63	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/12/63-07/12/63	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/12/63-07/12/63	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/12/63-07/12/63	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/63-07/12/63	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/12/63-07/12/63	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/12/63-07/12/63	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/12/63-07/12/63	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/12/63-07/12/63	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/12/63-07/12/63	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/12/63-07/12/63	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/12/63-07/12/63	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/12/63-07/12/63	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/12/63-07/12/63	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/12/63-07/12/63	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/12/63-07/12/63	1	59.	59.	59.	59.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/12/63-07/12/63	1	59.	59.	59.	59.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/12/63-07/12/63	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	07/12/63-07/12/63	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/12/63-07/12/63	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: FRHI0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	1	1.00	1	1	1.00									
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: FRHI0013

NPS Station ID: FRHI0013 | LAT/LON: 39.721392/ -79.856115 | Agency: 1114ENF1 | Date Created: / /
Location: CHEAT RIVER AT LAKE LYNN DAM | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 550600 /MC-14
RMI-Indexes: 1021500 007720 21680 1910 | Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.60 003.70
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020004001 | RF1 Mile Point: 3.850 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020003000300.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.04 | On/Off RF3:
Description:
STATION LOCATED ON THE CHEAT RIVER AT THE LAKE LYNN DAM JUST US OF THE 1963 STUDY BY A.D.SIDIO, FIELD WORK BY CINN. AND WHEELING FIELD STATION.
LAKE LYNN, W.VA. 7.5 MIN QUAD MAP 3943170 07951220

Parameter Inventory for Station: FRHI0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-09/06/63	15	24.	23.767	25.	22.	0.781	0.884	22.6	23.	24.5	25.
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/28/63-08/30/63	3	70.	70.	80.	60.	100.	10.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	11	130.	133.636	182.	121.	277.855	16.669	121.6	125.	134.	172.6
00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/30/63	11	8.2	8.036	9.9	6.2	1.439	1.199	6.36	7.1	8.8	9.9
00400	PH (STANDARD UNITS)	08/26/63-08/30/63	4	4.7	4.75	5.1	4.5	0.07	0.265	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/63-08/30/63	4	4.689	4.696	5.1	4.5	0.074	0.272	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/63-08/30/63	4	20.484	20.133	31.623	7.943	107.939	10.389	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	11	4.4	4.445	5.1	4.	0.111	0.333	4.	4.3	4.6	5.06
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/63-08/30/63	11	4.4	4.345	5.1	4.	0.122	0.349	4.	4.3	4.6	5.06
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/63-08/30/63	11	39.811	45.177	100.	7.943	918.071	30.3	8.872	25.119	50.119	100.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	11	1.	1.273	5.	0.	1.818	1.348	0.	1.	1.	4.4
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	11	0.	0.455	3.	0.	1.073	1.036	0.	0.	0.	2.8
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	11	8.	8.818	19.	6.	12.764	3.573	6.2	7.	9.	17.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	11	44.	45.	52.	42.	6.6	2.569	42.4	44.	46.	50.8
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	11	9.	9.909	20.	8.	11.891	3.448	8.	8.	10.	18.

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

EPA Water Quality Criteria Analysis for Station: FRHI0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	11	0	0.00									
00400	PH	Other-Hi Lim.	9.	4	0	0.00	4	0	0.00									
		Other-Lo Lim.	6.5	4	4	1.00	4	4	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	11	0	0.00	11	0	0.00									
		Other-Lo Lim.	6.5	11	11	1.00	11	11	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: FRHI0014

NPS Station ID: FRHI0014
LAT/LON: 39.721392/ -79.856115
Agency: 1114O100
Date Created: / /
Location: CHEAT RIVER AT LAKE LYNN DAM
FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550600
RMI-Indexes: 1021500 007720 21680 1910
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.60 003.60
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004001
RF1 Mile Point: 3.850
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020004000102.59
RF3 Mile Point: 6.24
Distance from RF3: 0.05
On/Off RF3:
Description:
STATION LOCATED ON THE CHEAT RIVER AT THE LAKE LYNN DAM. LAKE LYNN, W.VA.-PA. 7.5 MIN QUAD MAP

Parameter Inventory for Station: FRHI0014

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: FRHI0015

NPS Station ID: FRHI0015 | LAT/LON: 39.678031/ -79.857448 | Agency: 21WVINST | Date Created: 09/28/96
Location: Kelly Run at Sunset Beach, W.Va. | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): MC-02.7
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: Ohio River | Elevation: 950 | Water Body Id: WVMC-2.7
Minor Basin: Monongahela River / Cheat River | ECO Region: 69M
RF1 Index: 05020004001 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
Kelly Run above County Route 88 Highway Bridge at the Community of Sunset Beach, Monongalia County, West Virginia.
> Lake Lynn, PA-WV Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 37 30 Long. 79 45 00 **>

Parameter Inventory for Station: FRHI0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	07/23/96-07/23/96	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	1	19.2	19.2	19.2	19.2	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	07/23/96-07/23/96	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.18	7.18	7.18	7.18	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/23/96-07/23/96	1	7.18	7.18	7.18	7.18	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/96-07/23/96	1	0.066	0.066	0.066	0.066	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	150.	150.	150.	150.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/23/96-07/23/96	1	2.176	2.176	2.176	2.176	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			150.								
83507	POOL, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
83508	RIFFLE, AVERAGE DEPTH METER	07/23/96-07/23/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/23/96-07/23/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0016

NPS Station ID: FRHI0016
LAT/LON: 39.720281/ -79.857365
Agency: 11COEHUN
Date Created: 06/14/80
Location: CHEAT RIVER - MILE 3.5
FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 4CRR23602
RMI-Indexes: 1021500 007720 21680 1910
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.60 003.53
HUC: 05020004
Depth of Water: 15
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004001
RF1 Mile Point: 11.250
Distance from RF1: 1.70
On/Off RF1: ON
RF3 Index: 05020003001000.99
RF3 Mile Point: 7.40
Distance from RF3: 0.04
On/Off RF3:
Description:
LOCATED ON THE CHEAT RIVER AT THE OUTFLOW OF WEST PENN POWER:S LAKE LYNN - LAKE LYNN, W.VA., PA. QUAD - SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/73-10/10/74	8	20.	19.5	24.5	11.	20.929	4.575	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/19/73-10/10/74	8	6.9	7.05	15.	1.	25.689	5.068	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/19/73-10/10/74	8	8.	10.75	30.	5.	71.929	8.481	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/73-10/10/74	8	127.5	130.125	195.	91.	995.839	31.557	**	**	**	**
00400	PH (STANDARD UNITS)	04/26/74-10/10/74	7	5.	5.171	6.6	3.7	1.178	1.085	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/26/74-10/10/74	7	5.	4.368	6.6	3.7	1.931	1.39	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/74-10/10/74	7	10.	42.832	199.526	0.251	5280.447	72.667	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/19/73-10/10/74	8	4.7	5.2	7.1	4.3	1.094	1.046	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/19/73-10/10/74	8	4.655	4.674	7.1	4.3	1.41	1.188	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/73-10/10/74	8	22.106	21.176	50.119	0.079	382.602	19.56	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	8	0.	1.75	5.	0.	5.929	2.435	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	8	13.	14.75	29.	5.	51.929	7.206	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	07/19/73-10/10/74	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	07/19/73-09/12/74	4	11.	10.	13.	5.	12.667	3.559	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/17/74-08/22/74	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	8	48.5	58.375	136.	32.	1132.268	33.649	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/74-10/10/74	5	40.	41.	60.	25.	167.5	12.942	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/19/73-10/10/74	7	450.	591.429	1250.	275.	127672.619	357.313	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/74-10/10/74	6	252.5	291.667	500.	185.	13126.667	114.572	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	07/19/73-09/12/74	4	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: FRHI0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	8	0	0.00	5	0	0.00				3	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	4	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	7	6	0.86	4	4	1.00				3	2	0.67			

& - 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: FRHI0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	8	0	0.00	5	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	8	7	0.88	5	5	1.00				3	2	0.67			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00				3	0	0.00			

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

Station Inventory for Station: FRHI0017

NPS Station ID: FRHI0017
LAT/LON: 39.678892/ -79.857781
Agency: 11EPALES
Date Created: / /
Location: COLES RUN
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5402C1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: T/LAKE LYNN
Elevation: 0
Water Body Id:
Minor Basin: SEC RD BRDG AT SUNSET BEACH
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 15.90
On/Off RF1:
RF3 Index: 05020004018301.06
RF3 Mile Point: 1.05
Distance from RF3: 0.05
On/Off RF3:
Description:
AT BRIDGE ON SECONDARY ROAD AT SUNSET BEACH

Parameter Inventory for Station: FRHI0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.144	0.186	0.4	0.056	0.013	0.115	0.067	0.1	0.289	0.385
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.005	0.006	0.025	0.001	0.	0.006	0.001	0.001	0.007	0.018
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.66	0.668	1.12	0.18	0.095	0.309	0.205	0.413	0.984	1.065
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	14	0.38	0.504	1.2	0.2	0.1	0.316	0.2	0.283	0.675	1.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/73-06/22/74	14	0.675	0.681	1.18	0.18	0.103	0.32	0.205	0.42	0.988	1.12
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/73-06/22/74	13	0.01	0.012	0.025	0.003	0.	0.006	0.004	0.01	0.015	0.023
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	14 ##	0.003	0.004	0.013	0.003	0.	0.003	0.003	0.003	0.005	0.012

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

EPA Water Quality Criteria Analysis for Station: FRHI0017

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	4	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

Station Inventory for Station: FRHI0018

NPS Station ID: FRHI0018 | LAT/LON: 39.720559/ -79.857781 | Agency: 1114O100 | Date Created: / /
Location: BELOW LAKE LYNN DAM | FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 550338 /551327
RMI-Indexes: 1021500 007720 21680 1910 | Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.60 003.50
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020004001 | RF1 Mile Point: 3.850 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 05020003000300.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.04 | On/Off RF3:
Description:
STATION LOCATED ON THE CHEAT RIVER BELOW THE DAM 0.1 MILE AT THE W.VA.- PA. LINE.
LAKE LYNN, W.VA. 7.5 MIN QUAD MAP 3943140 07951280

Parameter Inventory for Station: FRHI0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/02/67-02/02/67	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	02/02/67-02/02/67	1	7550.	7550.	7550.	7550.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/02/67-02/02/67	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	02/02/67-02/02/67	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/02/67-02/02/67	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	02/02/67-02/02/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/02/67-02/02/67	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/02/67-02/02/67	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/02/67-02/02/67	1	1.995	1.995	1.995	1.995	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/02/67-02/02/67	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	02/02/67-02/02/67	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/02/67-02/02/67	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/02/67-02/02/67	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/02/67-02/02/67	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/02/67-02/02/67	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/02/67-02/02/67	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/02/67-02/02/67	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/02/67-02/02/67	1	800.	800.	800.	800.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/02/67-02/02/67	1	100.	100.	100.	100.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	02/02/67-02/02/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	02/02/67-02/02/67	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			10.								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/02/67-02/02/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/02/67-02/02/67	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/02/67-02/02/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	02/02/67-02/02/67	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			10.								

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

EPA Water Quality Criteria Analysis for Station: FRHI0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
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						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: FRHI0019

NPS Station ID: FRHI0019
LAT/LON: 39.720281/ -79.858059
Agency: 11EPALES
Date Created: / /
Location: CHEAT RIVER
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5402A1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: O/LAKE LYNN
Elevation: 0
Water Body Id:
Minor Basin: BELO DAM .5 MI SSE OF VILLAGE OF LK LYNN
ECO Region:
RF1 Index: 05020004001
RF1 Mile Point: 3.850
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020003001703.18
RF3 Mile Point: 3.36
Distance from RF3: 0.02
On/Off RF3:
Description:
BELOW DAM APPROX 0.5 MI SSE OF VILLAGE OF LAKE LYNN (BE SURE TO AVOID INFLUENCE OF GRASSY RUN)

Parameter Inventory for Station: FRHI0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.067	0.083	0.189	0.03	0.003	0.051	0.033	0.04	0.121	0.172
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	14 ##	0.001	0.001	0.001	0.001	0.	0.	0.001	0.001	0.001	0.001
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.435	0.427	0.61	0.22	0.015	0.121	0.236	0.34	0.522	0.599
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	14	0.295	0.301	0.8	0.05	0.046	0.214	0.05	0.088	0.448	0.65
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/29/73-06/22/74	14	0.435	0.427	0.62	0.22	0.015	0.123	0.235	0.34	0.523	0.605
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/73-05/20/74	11	0.01	0.008	0.02	0.003	0.	0.005	0.003	0.003	0.01	0.018
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	14 ##	0.003	0.004	0.014	0.003	0.	0.004	0.003	0.003	0.003	0.014

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

EPA Water Quality Criteria Analysis for Station: FRHI0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	4	0	0.00	6	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	14	0	0.00	4	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

Station Inventory for Station: FRHI0020

NPS Station ID: FRHI0020
LAT/LON: 39.728115/ -79.859615
Agency: 11NPSWRD
Date Created: 10/25/97
Location: PAFA535R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FRHI_NURE_14 /4070667
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE MONITORING STATION IS LOCATED ON THE LAKE LYNN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING OUTSIDE FRIENDSHIP HILL NATIONAL HISTORIC SITE (NPS). SAMPLES WERE FILTERED THROUGH A 0.8 UM FILTER AT THE SITE. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATABASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATABASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER LABORATORY. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/78-07/05/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/05/78-07/05/78	1	575.	575.	575.	575.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/78-07/05/78	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/78-07/05/78	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/78-07/05/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/78-07/05/78	1	18930.	18930.	18930.	18930.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/78-07/05/78	1	7880.	7880.	7880.	7880.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/78-07/05/78	1	64.	64.	64.	64.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/78-07/05/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/78-07/05/78	1	67.	67.	67.	67.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/78-07/05/78	1	0.672	0.672	0.672	0.672	0.	0.	**	**	**	**
50700	INVALID PARAMETER	07/05/78-07/05/78	1	94.	94.	94.	94.	0.	0.	**	**	**	**
50760	INVALID PARAMETER	07/05/78-07/05/78	1	4200.	4200.	4200.	4200.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/78-07/05/78	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: FRHI0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
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

Station Inventory for Station: FRHI0021

NPS Station ID: FRHI0021 | LAT/LON: 39.720837/ -79.860282 | Agency: 21WVWQAS | Date Created: 06/08/96
Location: Cheat River below Lake Lynn Dam, PA. | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): WA96-M05 /MC-01
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: Ohio River | Elevation: 810 | Water Body Id: WVM-2
Minor Basin: Monongahela River / Cheat River | ECO Region: 70G
RF1 Index: 05020004001 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1: ON
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
Right Bank Sample of Cheat River below the Lake Lynn Dam and above the Community of Lake Lynn, Fayette County, Pennsylvania.
> Lake Lynn, PA-WV Quadrangle 7.5 Minute Topographic Map < <** Southeast Corner Lat. 39 37 30 Long. 79 45 00 **>

Parameter Inventory for Station: FRHI0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/96-09/03/97	6	16.7	15.017	22.7	4.9	51.382	7.168	**	**	**	**
00035	WIND VELOCITY (MILES PER HOUR)	06/18/96-09/03/97	6 ##	5.	5.	10.	2.5	7.5	2.739	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/96-09/03/97	6	91.5	106.833	169.	77.	1339.367	36.597	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/18/96-09/03/97	6	8.55	8.733	10.2	8.	0.575	0.758	**	**	**	**
00400	PH (STANDARD UNITS)	06/18/96-09/03/97	6	7.	7.033	7.5	6.6	0.179	0.423	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/18/96-09/03/97	6	6.955	6.882	7.5	6.6	0.206	0.454	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/96-09/03/97	6	0.111	0.131	0.251	0.032	0.011	0.104	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/96-09/03/97	6	13.	14.167	25.	9.	34.567	5.879	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/18/96-09/03/97	6 ##	2.5	5.5	16.	2.5	29.7	5.45	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/18/96-09/03/97	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/18/96-09/03/97	5	0.4	0.384	0.5	0.3	0.007	0.082	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/18/96-09/03/97	6 ##	0.25	0.4	0.8	0.25	0.058	0.241	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/10/96-12/10/96	1	0.37	0.37	0.37	0.37	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/18/96-09/03/97	6 ##	0.01	0.017	0.03	0.01	0.	0.01	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/18/96-09/03/97	6	39.	41.5	57.	32.	104.3	10.213	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/96-09/03/97	6	2.	1.667	2.	1.	0.267	0.516	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/96-09/03/97	6	27.5	39.5	90.	21.	720.3	26.838	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/96-06/18/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/96-09/03/97	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/18/96-09/03/97	6 ##	5.25	5.75	10.	2.5	13.075	3.616	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/18/96-09/03/97	6	385.	450.	890.	160.	75320.	274.445	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/18/96-09/03/97	6 ##	2.5	1.792	2.5	0.25	1.21	1.1	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/18/96-09/03/97	6	115.	133.667	230.	92.	2632.667	51.31	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/18/96-09/03/97	6	6.	6.5	12.	2.5	15.4	3.924	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/18/96-09/03/97	6	70.	84.	240.	10.	6672.4	81.685	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/18/96-09/03/97	6	395.	466.667	990.	240.	82466.667	287.17	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/96-09/03/97	6	11.5	246.	1400.	1.	319888.8	565.587	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/96-09/03/97	6	1.025	1.261	3.146	0.	1.161	1.077	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			18.242								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/18/96-09/03/97	6 ##	0.5	3.333	15.	0.5	33.667	5.802	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/18/96-09/03/97	6 ##	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: FRHI0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
00400	PH	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	5	0	0.00	2	0	0.00				3	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.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	250.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00	1	0	0.00	3	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.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	1300.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	15.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	100.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	6	1	0.17	2	0	0.00	1	1	1.00	3	0	0.00			
		Drinking Water	5000.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	6	1	0.17	2	1	0.50	1	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	6	0	0.00	2	0	0.00	1	0	0.00	3	0	0.00			

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

Station Inventory for Station: FRHI0022

NPS Station ID: FRHI0022 LAT/LON: 39.680005/ -79.868059 Agency: 11EPALES Date Created: / /
Location: LAKE LYNN RESERVOIR FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 540201
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 18 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020004 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020003002901.06 RF3 Mile Point: 5.52 Distance from RF3: 0.03 On/Off RF3:
Description:
NORTH OF ICES FERRY BRIDGE (BEWARE OF POWERLINES) APPR 3/4 MILE, FAVORING THE EAST SIDE, DUE WEST OF MOUTH OF COVE AT SUNSET BEACH MARINA. COMMENTS: 4-24, ULE 10.
7-28 ULE 13, CLEAR GREEN; NO SURF OR HIGHER AQUATICS; 1% LIGHT AT 30 FT; DEPTH 40 FT. 10-5 ULE 11; GREEN; NO APPARENT AQUATICS; LEVEL SEEMS HIGH; NO POPULATED AREA; HEAVY FORESTED SHORE LINE; DEPTH 25 FT. USGS MAP: LAKE LYNN QUAD

Parameter Inventory for Station: FRHI0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/73-10/05/73	12	22.3	22.033	26.6	15.9	17.33	4.163	15.9	17.325	26.15	26.57
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	04/24/73-04/24/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/24/73-07/28/73	8	90.	90.75	97.	87.	9.357	3.059	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/24/73-10/05/73	3	84.	93.667	120.	77.	532.333	23.072	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/28/73-10/05/73	9	168.	157.889	189.	85.	1274.611	35.702	85.	137.	184.	189.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/73-10/05/73	12	837.	728.667	1256.	105.	210376.424	458.668	106.5	178.	1175.25	1243.7
00300	OXYGEN, DISSOLVED MG/L	04/24/73-10/05/73	9	7.8	7.733	9.3	5.5	1.293	1.137	5.5	7.2	8.6	9.3
00400	PH (STANDARD UNITS)	04/24/73-10/05/73	12	4.55	4.758	6.	4.1	0.428	0.654	4.1	4.15	5.175	5.91
00400	CONVERTED PH (STANDARD UNITS)	04/24/73-10/05/73	12	4.525	4.452	6.	4.1	0.53	0.728	4.1	4.15	5.175	5.91
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/73-10/05/73	12	29.882	35.291	79.433	1.	1014.647	31.854	1.299	6.718	72.104	79.433
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/73-10/05/73	12 ##	5.	5.917	11.	5.	4.629	2.151	5.	5.	5.	10.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/73-10/05/73	12	0.13	0.131	0.26	0.04	0.004	0.066	0.043	0.063	0.178	0.242
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/73-10/05/73	12	0.4	0.392	0.9	0.1	0.048	0.219	0.1	0.225	0.5	0.78
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/73-10/05/73	12	0.33	0.357	0.46	0.28	0.004	0.063	0.286	0.313	0.43	0.457
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/73-10/05/73	12	0.005	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.011	0.017
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/73-10/05/73	12	0.003	0.003	0.004	0.002	0.	0.001	0.002	0.003	0.004	0.004
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/24/73-10/05/73	3	1.4	4.517	11.9	0.25	41.216	6.42	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	04/24/73-10/05/73	3	25.	27.667	40.	18.	126.333	11.24	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: FRHI0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	7	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: FRHI0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	12	0	0.00	9	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	12	12	1.00	9	9	1.00				3	3	1.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	9	0	0.00				3	0	0.00			

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

Station Inventory for Station: FRHI0023

NPS Station ID: FRHI0023
LAT/LON: 39.767698/ -79.872115
Agency: 11NPSWRD
Date Created: 10/25/97
Location: PAFA534R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FRHI_NURE_06 /4070666
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE MONITORING STATION IS LOCATED ON THE SMITHFIELD PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING OUTSIDE FRIENDSHIP HILL NATIONAL HISTORIC SITE (NPS). SAMPLES WERE FILTERED THROUGH A 0.8 UM FILTER AT THE SITE. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATABASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATABASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER LABORATORY. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/77-08/22/77	1	370.	370.	370.	370.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/22/77-08/22/77	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/22/77-08/22/77	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/77-08/22/77	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/22/77-08/22/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/22/77-08/22/77	1	10000.	10000.	10000.	10000.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	1	14130.	14130.	14130.	14130.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	1	-0.1	-0.1	-0.1	-0.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	1	103.	103.	103.	103.	0.	0.	**	**	**	**
50700	INVALID PARAMETER	08/22/77-08/22/77	1	65.	65.	65.	65.	0.	0.	**	**	**	**
50760	INVALID PARAMETER	08/22/77-08/22/77	1	13800.	13800.	13800.	13800.	0.	0.	**	**	**	**
50761	INVALID PARAMETER	08/22/77-08/22/77	1	26.	26.	26.	26.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	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: FRHI0023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									

& - 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: FRHI0024

NPS Station ID: FRHI0024
LAT/LON: 39.678615/ -79.885004
Agency: 112WRD
Date Created: 05/30/81
Location: 0904055 TASA COAL CO
FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 394043079530601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020003
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020003
RF1 Mile Point: 0.000
Distance from RF1: 2.70
On/Off RF1:
RF3 Index: 05020005003504.12
RF3 Mile Point: 8.17
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00058	FLOW, RATE GALLONS/MIN	02/07/49-02/07/49	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/07/49-02/07/49	1	169.	169.	169.	169.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/07/49-02/07/49	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/07/49-02/07/49	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/07/49-02/07/49	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	02/07/49-02/07/49	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/07/49-02/07/49	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	02/07/49-02/07/49	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	02/07/49-02/07/49	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/07/49-02/07/49	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/07/49-02/07/49	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/07/49-02/07/49	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/07/49-02/07/49	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/07/49-02/07/49	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	02/07/49-02/07/49	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/07/49-02/07/49	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/07/49-02/07/49	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/07/49-02/07/49	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/07/49-02/07/49	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	02/07/49-02/07/49	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/07/49-02/07/49	1	105.	105.	105.	105.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/07/49-02/07/49	1	116.	116.	116.	116.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	02/07/49-02/07/49	1	26.	26.	26.	26.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	1	1.00				1	1	1.00						
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						

& - 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: FRHI0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: FRHI0025

NPS Station ID: FRHI0025 LAT/LON: 39.735003/ -79.886670 Agency: 21PAFISH Date Created: 09/22/79
Location: PT.MARION-FAYETTE CO.-CHEAT RIVER FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII43PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020004001 RF1 Mile Point: 2.120 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020003009600.00 RF3 Mile Point: 0.00 Distance from RF3: 0.17 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0026

NPS Station ID: FRHI0026 LAT/LON: 39.733337/ -79.888338 Agency: 21PAFISH Date Created: 09/22/79
Location: PT.MARION-FAYETTE CO.-CONRAD RESERVOIR FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /RESERV/TYPA/MUN/INTAKE/AMBNT/SUPPLY STORET Station ID(s): PWSIII39PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020004001 RF1 Mile Point: 2.120 Distance from RF1: 23.70 On/Off RF1: OFF
RF3 Index: 05020004004101.66 RF3 Mile Point: 7.59 Distance from RF3: 0.07 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0027

NPS Station ID: FRHI0027 LAT/LON: 39.810004/ -79.890004 Agency: 21PAFISH Date Created: 09/22/79
Location: NICHOLSON TWP.-JACOBS CREEK-FAYETTE COUNTY FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII36PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 10.40 On/Off RF1:
RF3 Index: 05020005036900.00 RF3 Mile Point: 0.16 Distance from RF3: 0.06 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - DEPT. OF ENVIRONMENTAL RESOURCES - 1974-1977 - COMMONWEALTH OF PENNSYLVANIA

Parameter Inventory for Station: FRHI0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0028

NPS Station ID: FRHI0028
LAT/LON: 39.741670/ -79.891115
Agency: 1114O100
Date Created: / /
Location: CHEAT RIVER AT POINT MARION
FIPS State/County: 42000 PENNSYLVANIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 410401
RMI-Indexes: 1021500 007720 21680 1910
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.60 000.20
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004001
RF1 Mile Point: 0.720
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005000104.45
RF3 Mile Point: 4.58
Distance from RF3: 0.04
On/Off RF3:
Description:
CHEAT RIVER AT POINT MARION. SAMPLE POINT IS LOCATED ON US SIDE OF BRIDGE ON RT 166 AND IS APPROX 900 FT US FROM MOUTH. THIS POINT IS NE OF THE TOWN OF PT. MARION AND APPROX 3.6 MILES DS FROM DAM. USGS IS READ AT THE DAM.
MORGANTOWN N, W.VA.-PA. 7.5 MIN QUAD MAP 3944300 07953280

Parameter Inventory for Station: FRHI0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/65-10/31/74	18	22.5	18.806	26.	1.	57.151	7.56	5.5	13.375	24.25	25.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/24/73-07/10/73	3	14.	15.	30.	1.	211.	14.526	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	07/16/65-04/10/74	13	145.	1636.385	4500.	53.	3504774.256	1872.104	55.8	60.	3605.5	4442.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/10/74-10/31/74	2	2232.5	2232.5	4356.	109.	9018504.5	3003.082	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/16/65-01/24/73	11	25.	25.455	30.	25.	2.273	1.508	25.	25.	25.	29.
00080	COLOR (PLATINUM-COBALT UNITS)	01/24/73-01/24/73	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/65-10/31/74	18	320.	422.944	1125.	100.	91840.761	303.052	100.	195.	600.	1012.5
00300	OXYGEN, DISSOLVED MG/L	07/16/65-10/31/74	14	8.15	8.179	12.4	6.4	2.039	1.428	6.45	7.45	8.525	10.7
00310	BOD, 5 DAY, 20 DEG C MG/L	07/16/65-09/01/65	10	0.6	0.7	2.	0.	0.456	0.675	0.	0.075	1.25	1.94
00400	PH (STANDARD UNITS)	07/16/65-10/31/74	18	3.45	3.856	6.4	2.9	0.927	0.963	3.08	3.2	4.3	5.68
00400	CONVERTED PH (STANDARD UNITS)	07/16/65-10/31/74	18	3.447	3.414	6.4	2.9	1.134	1.065	3.08	3.2	4.3	5.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/16/65-10/31/74	18	357.167	385.868	1258.925	0.398	118039.449	343.569	2.301	53.602	630.957	840.788
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/16/65-10/31/74	18	0.	2.722	32.	0.	60.095	7.752	0.	0.	0.25	11.3
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/16/65-07/10/73	12	118.	117.417	281.	20.	4802.992	69.304	29.6	66.5	153.5	248.9
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	02/21/74-06/12/74	4	4.5	5.75	11.	3.	12.917	3.594	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/21/74-10/31/74	4	83.5	88.25	111.	75.	294.25	17.154	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/21/74-05/08/74	3	66.	69.333	83.	59.	152.333	12.342	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/21/74-10/31/74	4	9.	9.75	16.	5.	20.917	4.573	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/16/65-10/31/74	18	86.	100.722	371.	32.	6943.977	83.331	32.9	46.	107.	253.1
00940	CHLORIDE,TOTAL IN WATER MG/L	07/16/65-01/24/73	7	2.	6.143	33.	0.	140.81	11.866	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/16/65-10/31/74	17	110.	270.882	2500.	5.	347568.61	589.549	5.	47.	193.	900.
01045	IRON, TOTAL (UG/L AS FE)	07/16/65-10/31/74	17	2600.	4298.235	16400.	610.	19131327.941	4373.937	618.	860.	7350.	10880.
01046	IRON, DISSOLVED (UG/L AS FE)	07/10/73-07/10/73	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/16/65-10/31/74	13	400.	594.615	2300.	170.	361526.923	601.271	170.	195.	700.	1900.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/73-07/10/73	1	540.	540.	540.	540.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/17/65-10/31/74	6	870.	2876.667	10300.	300.	15737346.667	3967.032	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/16/65-10/31/74	15	10.	104.667	1200.	5.	92765.952	304.575	5.	10.	50.	546.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/16/65-10/31/74	15	1.	1.327	3.079	0.699	0.401	0.633	0.699	1.	1.699	2.457
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			21.212								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/65-10/31/74	15	2.	2.6	10.	1.	5.543	2.354	1.	2.	2.	7.6
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/65-10/31/74	15	0.301	0.319	1.	0.	0.07	0.265	0.	0.301	0.301	0.867

** - Less than 9 observations ## - 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: FRHI0028

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 =			2.086								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/16/65-09/01/65	10	2.	2.8	10.	2.	6.4	2.53	2.	2.	2.	9.2
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	07/16/65-09/01/65	10	0.301	0.371	1.	0.301	0.049	0.221	0.301	0.301	0.301	0.93
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			2.349								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/10/74-10/31/74	2	82.5	82.5	106.	59.	1104.5	33.234	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/24/73-10/31/74	4	14.5	24.5	65.	4.	827.	28.758	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	11	0	0.00	10	0	0.00	1	0	0.00						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	12	0	0.00	1	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	18	0	0.00	12	0	0.00	2	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	18	18	1.00	12	12	1.00	2	2	1.00	4	4	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	6	0	0.00	1	0	0.00						
		Drinking Water	250.	7	0	0.00	6	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	17	3	0.18	12	3	0.25	2	0	0.00	3	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	15	1	0.07	11	1	0.09	1	0	0.00	3	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	15	0	0.00	11	0	0.00	1	0	0.00	3	0	0.00			

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

Station Inventory for Station: FRHI0029

NPS Station ID: FRHI0029 LAT/LON: 39.771671/ -79.893337 Agency: 21PAFISH Date Created: 09/22/79
Location: SPRINGHILL TWP.-FAYETTE CO.-GEORGES CREEK FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII37PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005038 RF1 Mile Point: 2.470 Distance from RF1: 17.00 On/Off RF1: OFF
RF3 Index: 05020005005401.75 RF3 Mile Point: 1.96 Distance from RF3: 0.01 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0030

NPS Station ID: FRHI0030 LAT/LON: 39.688337/ -79.896115 Agency: 11EPALES Date Created: / /
Location: LAKE LYNN RESERVOIR FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 540202
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 58 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020004001 RF1 Mile Point: 7.610 Distance from RF1: 7.60 On/Off RF1: OFF
RF3 Index: 05020004000107.98 RF3 Mile Point: 8.15 Distance from RF3: 0.12 On/Off RF3:
Description:
JUST NORTH OF SHARP BEND IN LAKE, 300 DEGREES FROM NORTH EDGE OF LARGE SLAG PILE ON EAST POINT; FAVOR WEST SHORE (200 FT AWAY) FOR MAXIMUM DEPTH. COMMENTS: 4-24, ULE 14, SILTATION MAY BE RESULT OF SLAG EROSION ADJACENT TO SITE; HAS MORE EFFECT ON CLARITY THAN COLOR. 7-28 ULE 13,CLEAR LIGHT GREEN; NO SURF OR HIGHER AQUATICS; 1% LIGHT AT 30 FT; DEPTH 74 FT 10-5 ULE 13; GREEN; NO AQUATICS; MODERATELY POPULATED SHORE LINE; STEEP TIMBER LINE ON SHORE LINE; SLAG PILE ON EAST SECTION OF ELBOW; DEPTH 58 FT USGS MAP: MORGANTOWN NORTH QUAD

Parameter Inventory for Station: FRHI0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/73-10/05/73	19	19.9	19.689	26.4	11.2	23.705	4.869	11.7	15.9	22.7	26.3
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	04/24/73-07/28/73	13	85.	84.077	92.	74.	35.244	5.937	74.8	78.5	89.	91.6
00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/24/73-10/05/73	3	74.	72.667	84.	60.	145.333	12.055	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/28/73-10/05/73	12	166.	161.167	240.	100.	1829.424	42.772	101.5	114.75	194.75	227.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/73-10/05/73	19	448.	603.842	1512.	85.	247230.474	497.223	90.	100.	863.	1329.
00300	OXYGEN, DISSOLVED MG/L	04/24/73-10/05/73	16	7.9	8.206	10.2	5.3	2.291	1.514	6.	7.4	9.975	10.2
00400	PH (STANDARD UNITS)	04/24/73-10/05/73	19	4.6	4.7	6.2	3.9	0.466	0.682	3.9	4.	5.1	6.2
00400	CONVERTED PH (STANDARD UNITS)	04/24/73-10/05/73	19	4.6	4.367	6.2	3.9	0.583	0.763	3.9	4.	5.1	6.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/73-10/05/73	19	25.119	42.984	125.893	0.631	1943.845	44.089	0.631	7.943	100.	125.893
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/73-10/05/73	19 ##	5.	5.263	10.	5.	1.316	1.147	5.	5.	5.	5.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/73-10/05/73	19	0.12	0.119	0.33	0.03	0.006	0.078	0.04	0.05	0.15	0.25
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/24/73-10/05/73	19	0.4	0.342	0.7	0.1	0.048	0.219	0.1	0.1	0.5	0.7
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/73-10/05/73	19	0.31	0.373	0.51	0.27	0.009	0.094	0.29	0.29	0.46	0.51
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/73-10/05/73	19	0.006	0.008	0.03	0.004	0.	0.007	0.005	0.005	0.007	0.026
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/24/73-10/05/73	19	0.003	0.003	0.005	0.001	0.	0.001	0.001	0.002	0.004	0.005
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	04/24/73-10/05/73	3	2.2	6.117	15.9	0.25	72.736	8.529	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	04/24/73-10/05/73	3	58.	63.333	74.	58.	85.333	9.238	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	16	0	0.00	10	0	0.00				6	0	0.00			
00400	PH	Other-Hi Lim.	9.	19	0	0.00	12	0	0.00				7	0	0.00			
		Other-Lo Lim.	6.5	19	19	1.00	12	12	1.00				7	7	1.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	19	0	0.00	12	0	0.00				7	0	0.00			

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

Station Inventory for Station: FRHI0031

NPS Station ID: FRHI0031
LAT/LON: 39.676392/ -79.896392
Agency: 11EPALES
Date Created: / /
Location: UNNAMED STREAM
FIPS State/County: 54000 WEST VIRGINIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 5402E1
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: T/LAKE LYNN
Elevation: 0
Water Body Id:
Minor Basin: SEC HWY BRDG .25 MI W OF CANYON
ECO Region:
RF1 Index: 05020004001
RF1 Mile Point: 8.870
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020004076500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:
AT BRIDGE ON SECONDARY HWY APPROX 1/4 MI W OF CANYON

Parameter Inventory for Station: FRHI0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/73-06/22/74	14	0.364	0.419	0.82	0.3	0.021	0.146	0.3	0.315	0.475	0.71
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/18/73-06/22/74	7	0.045	0.071	0.16	0.026	0.002	0.049	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/27/73-05/20/74	8	0.036	0.118	0.59	0.004	0.04	0.2	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/29/73-06/22/74	14	0.7	0.657	1.	0.345	0.036	0.191	0.373	0.475	0.81	0.925
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/27/73-06/22/74	10	0.055	0.151	0.63	0.03	0.036	0.189	0.031	0.04	0.223	0.596
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/29/73-06/22/74	14	0.66	0.654	1.05	0.22	0.059	0.242	0.283	0.468	0.803	1.05
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/29/73-06/22/74	14	0.532	0.554	1.	0.101	0.079	0.281	0.159	0.323	0.77	1.

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

EPA Water Quality Criteria Analysis for Station: FRHI0031

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	7	0	0.00				4	0	0.00	3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	1	0	0.00	4	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00	1	0	0.00	5	0	0.00	4	0	0.00			

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

Station Inventory for Station: FRHI0032

NPS Station ID: FRHI0032 LAT/LON: 39.741115/ -79.896948 Agency: 11COEHUN Date Created: 07/07/79
Location: CHEAT RIVER MILE 0.3 FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 4GRP12006 /4CRR13000
RMI-Indexes: 1021500 007720 21680 1910 Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.60 000.30
HUC: 05020003 Depth of Water: 50 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER CHEAT RIVER ECO Region:
RF1 Index: 05020003 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003700.95 RF3 Mile Point: 1.15 Distance from RF3: 0.25 On/Off RF3:
Description:
LOCATED ON THE CHEAT RIVER 89.9 MILES UPSTREAM FROM PITTSBURGH, PA - IN POOL NO. 7, 0.3 MILE UPSTREAM FROM MOUTH OF CHEAT RIVER UNDER THE RAILROAD BRIDGE AT MID-CHANNEL - MORGANTOWN NORTH, W.VA -PA. QUAD. SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	64	23.95	23.617	26.8	19.9	3.669	1.915	20.5	22.925	24.8	26.2
00032	CLOUD COVER (PERCENT)	06/03/75-06/26/79	4	45.	47.5	100.	0.	2491.667	49.917	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	15	3.1	3.56	15.	1.4	10.81	3.288	1.4	1.8	3.5	8.64
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/75-06/26/79	3	132.	96.	132.	24.	3888.	62.354	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	15	7.	8.8	35.	2.	65.743	8.108	2.6	3.	10.	21.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	64	137.	176.203	338.	99.	3644.069	60.366	116.5	131.	216.	268.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/25/92	3	277.	300.333	375.	249.	4377.333	66.161	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	64	7.25	7.302	8.9	6.2	0.687	0.829	6.35	6.5	8.	8.6
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	59	6.	5.727	7.12	4.1	0.701	0.837	4.2	5.2	6.26	6.65
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	59	6.	4.939	7.12	4.1	1.332	1.154	4.2	5.2	6.26	6.65
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	59	1.	11.517	79.433	0.076	501.043	22.384	0.224	0.55	6.31	63.096
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	15	6.4	5.967	6.9	4.4	0.887	0.942	4.46	4.7	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	15	6.4	5.091	6.9	4.4	1.709	1.307	4.46	4.7	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	15	0.398	8.119	39.811	0.126	187.867	13.706	0.126	0.158	19.953	34.898
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	15	6.	6.8	23.	0.	39.029	6.247	0.	2.	10.	17.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	15	5.	6.4	15.	2.	12.257	3.501	3.2	4.	8.	13.2
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	15	0.	0.133	2.	0.	0.267	0.516	0.	0.	0.	0.8
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	15	5.	6.	12.	2.	7.286	2.699	3.2	4.	8.	10.8
00500	RESIDUE, TOTAL (MG/L)	07/30/75-07/30/75	1	115.	115.	115.	115.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	15	2.	3.76	33.	0.5	66.667	8.165	0.5	0.8	2.	16.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/16/89-08/25/92	4 ##	0.075	0.55	2.	0.05	0.935	0.967	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/16/89-08/25/92	4	0.2	0.188	0.3	0.05	0.011	0.103	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/16/89-08/25/92	3	1.	0.9	1.2	0.5	0.13	0.361	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/16/89-08/25/92	4	0.067	0.099	0.256	0.005	0.012	0.11	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	15	69.	76.2	124.	40.	1036.743	32.198	40.6	46.	109.	122.2
00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	11	26.9	23.573	37.	9.	87.594	9.359	9.6	15.2	32.4	36.3
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	11	6.6	5.955	9.8	3.	6.017	2.453	3.	3.7	8.	9.64
00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	11	6.	7.635	19.3	0.5	40.707	6.38	0.658	1.8	13.4	18.56
00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	9 ##	5.	4.6	14.9	0.5	19.665	4.435	0.5	0.5	5.	14.9
00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/16/89	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	13	60.	68.077	114.	30.	866.744	29.441	32.4	42.	96.	112.4
01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/88-07/30/91	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	10	48.	44.6	53.	30.	72.489	8.514	30.3	35.25	50.75	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 time series plot

Parameter Inventory for Station: FRHI0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	10 ##	5.	3.65	5.	0.5	4.725	2.174	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	08/06/86-07/30/91	7 ##	0.5	0.857	3.	0.5	0.893	0.945	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/30/75-08/25/92	9 ##	0.5	7.389	30.	0.5	134.486	11.597	0.5	0.5	15.	30.
01042	COPPER, TOTAL (UG/L AS CU)	07/30/75-08/25/92	9	9.	11.667	25.	2.5	70.438	8.393	2.5	5.25	19.5	25.
01044	IRON, SUSPENDED (UG/L AS FE)	06/26/79-06/26/79	1	620.	620.	620.	620.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	14	237.5	329.929	914.	50.	60492.533	245.952	88.5	188.75	415.5	847.
01051	LEAD, TOTAL (UG/L AS PB)	07/30/75-07/30/91	8 ##	1.	6.125	25.	1.	93.554	9.672	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/26/79-06/26/79	1	270.	270.	270.	270.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	14	305.5	321.429	530.	34.	19675.033	140.268	95.5	236.	442.5	525.
01067	NICKEL, TOTAL (UG/L AS NI)	08/06/86-08/25/92	8	11.5	11.063	22.	2.5	32.174	5.672	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/30/75-08/25/92	11 ##	25.	27.273	50.	25.	56.818	7.538	25.	25.	25.	45.
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	8 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/24/83-08/25/92	10	215.5	259.1	550.	25.	28631.878	169.21	34.5	132.75	387.	543.
01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/88-07/30/91	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	10	0.	1.5	15.	0.	22.5	4.743	0.	0.	0.	13.5
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	5	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: FRHI0032

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	15	0	0.00	12	0	0.00				3	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	64	0	0.00	50	0	0.00				14	0	0.00			
00400	PH	Other-Hi Lim.	9.	59	0	0.00	50	0	0.00				9	0	0.00			
		Other-Lo Lim.	6.5	59	53	0.90	50	44	0.88				9	9	1.00			
00403	PH, LAB	Other-Hi Lim.	9.	15	0	0.00	12	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	15	10	0.67	12	7	0.58				3	3	1.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	3	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	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.	13	0	0.00	10	0	0.00				3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	4	0	0.00									
		Drinking Water	50.	4	0	0.00	4	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	10	0	0.00	10	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	10	0	0.00	10	0	0.00									
		Drinking Water	4.	3 &	0	0.00	3	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7	0	0.00	7	0	0.00									
		Drinking Water	5.	7	0	0.00	7	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00	9	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	8 &	1	0.13	8	1	0.13									
		Drinking Water	1300.	9	0	0.00	9	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	8	0	0.00									
		Drinking Water	15.	7 &	1	0.14	7	1	0.14									
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	8	0	0.00									
		Drinking Water	100.	8	0	0.00	8	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	11	0	0.00	11	0	0.00									
		Drinking Water	5000.	11	0	0.00	11	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	8	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									

& - 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: 7/01 to 10/31 - Station FRHI0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	50	24.2	24.46	26.8	22.6	1.292	1.137	23.3	23.4	25.125	26.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	12	3.15	2.933	4.4	1.4	0.726	0.852	1.52	2.15	3.475	4.16
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	12	7.5	7.5	13.	3.	13.909	3.729	3.	3.5	10.	13.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	50	193.	191.56	338.	114.	3504.823	59.202	131.	131.	246.25	276.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	50	6.75	7.006	8.8	6.2	0.434	0.659	6.3	6.5	7.6	7.88
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	50	6.115	5.767	7.12	4.1	0.73	0.854	4.2	5.2	6.3	6.758
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	50	6.115	4.925	7.12	4.1	1.455	1.206	4.2	5.2	6.3	6.758
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	50	0.768	11.889	79.433	0.076	567.615	23.825	0.175	0.501	6.31	63.096
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	12	6.45	6.225	6.9	4.6	0.637	0.798	4.63	5.925	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	12	6.447	5.388	6.9	4.6	1.401	1.183	4.63	5.925	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	12	0.357	4.091	25.119	0.126	75.597	8.695	0.126	0.158	1.314	23.569
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	12	7.	8.	23.	0.	39.636	6.296	0.6	3.25	11.5	20.3
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	12	5.	5.25	12.	2.	6.023	2.454	2.6	4.	5.75	10.5
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	12	5.	5.25	12.	2.	6.023	2.454	2.6	4.	5.75	10.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	12	2.	1.842	5.	0.5	1.346	1.16	0.59	0.9	2.	4.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	12	90.	84.083	124.	41.	977.356	31.263	42.5	50.25	113.5	123.1
00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	11	26.9	23.573	37.	9.	87.594	9.359	9.6	15.2	32.4	36.3
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	11	6.6	5.955	9.8	3.	6.017	2.453	3.	3.7	8.	9.64
00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	11	6.	7.635	19.3	0.5	40.707	6.38	0.658	1.8	13.4	18.56
00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	9 ##	5.	4.6	14.9	0.5	19.665	4.435	0.5	0.5	5.	14.9
00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	10	76.	74.1	114.	30.	948.989	30.806	30.7	44.5	101.75	113.6
01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	10	48.	44.6	53.	30.	72.489	8.514	30.3	35.25	50.75	53.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	10 ##	5.	3.65	5.	0.5	4.725	2.174	0.5	0.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/30/75-08/25/92	9 ##	0.5	7.389	30.	0.5	134.486	11.597	0.5	0.5	15.	30.
01042	COPPER, TOTAL (UG/L AS CU)	07/30/75-08/25/92	9	9.	11.667	25.	2.5	70.438	8.393	2.5	5.25	19.5	25.
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	12	214.	274.583	780.	50.	36554.083	191.191	73.1	166.25	369.	675.6
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	12	322.	334.75	530.	34.	21584.023	146.915	70.9	256.	447.5	527.
01092	ZINC, TOTAL (UG/L AS ZN)	07/30/75-08/25/92	11 ##	25.	27.273	50.	25.	56.818	7.538	25.	25.	25.	45.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/24/83-08/25/92	10	215.5	259.1	550.	25.	28631.878	169.21	34.5	132.75	387.	543.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	14	20.55	20.607	21.5	19.9	0.419	0.647	19.9	19.975	21.5	21.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	3	1.8	6.067	15.	1.4	59.893	7.739	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	3	5.	14.	35.	2.	333.	18.248	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	14	131.	121.357	136.	99.	302.709	17.399	99.	99.	135.	136.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	14	8.1	8.357	8.9	7.9	0.16	0.399	7.95	8.075	8.825	8.9
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	9	5.7	5.5	6.5	4.55	0.539	0.734	4.55	4.625	6.1	6.5
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	9	5.7	5.025	6.5	4.55	0.793	0.891	4.55	4.625	6.1	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	9	1.995	9.446	28.184	0.316	150.224	12.257	0.316	0.815	24.068	28.184
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	3	4.5	4.933	5.9	4.4	0.703	0.839	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	3	4.5	4.616	5.9	4.4	0.855	0.925	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	3	31.623	24.231	39.811	1.259	412.541	20.311	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	3	0.	2.	6.	0.	12.	3.464	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	3	10.	11.	15.	8.	13.	3.606	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	3	0.	0.667	2.	0.	1.333	1.155	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	3	9.	9.	10.	8.	1.	1.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	3	0.8	11.433	33.	0.5	348.863	18.678	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	3	46.	44.667	48.	40.	17.333	4.163	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	3	48.	48.	60.	36.	144.	12.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	2	662.	662.	914.	410.	127008.	356.382	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	2	241.5	241.5	283.	200.	3444.5	58.69	**	**	**	**

** - Less than 9 observations ## - Computed 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: FRHI0033

NPS Station ID: FRHI0033
LAT/LON: 39.741948/ -79.899726
Agency: 112WRD
Date Created: / /
Location: CHEAT RIVER AT POINT MARION, PA.
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071700
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004001
RF1 Mile Point: 0.510
Distance from RF1: 18.90
On/Off RF1: OFF
RF3 Index: 05020004025701.59
RF3 Mile Point: 8.64
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/68-03/27/69	2	15.	15.	24.	6.	162.	12.728	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	03/27/69-03/27/69	1	9000.	9000.	9000.	9000.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/02/68-03/27/69	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-03/27/69	2	191.5	191.5	310.	73.	28084.5	167.584	**	**	**	**
00400	PH (STANDARD UNITS)	07/02/68-03/27/69	2	4.85	4.85	6.1	3.6	3.125	1.768	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/02/68-03/27/69	2	3.9	3.9	6.1	3.6	4.931	2.221	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/68-03/27/69	2	125.991	125.991	251.189	0.794	31348.656	177.056	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/02/68-03/27/69	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/02/68-03/27/69	2	2.	2.	4.	0.	8.	2.828	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/02/68-07/02/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/68-03/27/69	2	38.5	38.5	53.	24.	420.5	20.506	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/02/68-03/27/69	2	37.	37.	53.	21.	512.	22.627	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/68-03/27/69	2	10.6	10.6	14.	7.2	23.12	4.808	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/68-03/27/69	2	2.85	2.85	4.2	1.5	3.645	1.909	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/02/68-03/27/69	2	18.25	18.25	36.	0.5	630.125	25.102	**	**	**	**
00932	SODIUM, PERCENT	03/27/69-03/27/69	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	03/27/69-03/27/69	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/02/68-03/27/69	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/68-03/27/69	2	79.	79.	135.	23.	6272.	79.196	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/27/69-03/27/69	1	52.	52.	52.	52.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/27/69-03/27/69	1	1260.01	1260.01	1260.01	1260.01	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/27/69-03/27/69	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	07/02/68-07/02/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/02/68-03/27/69	2	1.	1.	2.	0.	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: FRHI0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	2	1.00	1	1	1.00				1	1	1.00			
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			

& - 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: FRHI0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			

& - 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: FRHI0034

NPS Station ID: FRHI0034 LAT/LON: 39.741670/ -79.900004 Agency: 11121XWQ Date Created: 05/13/89
Location: MONONGAHELA RIVER AT MOUTH OF CHEAT RIVER FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): MO76
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 11.50 On/Off RF1:
RF3 Index: 05020004024800.28 RF3 Mile Point: 1.28 Distance from RF3: 0.39 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/08/86-07/08/86	2	0.64	0.64	0.73	0.55	0.016	0.127	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/08/86-07/08/86	2	0.97	0.97	1.75	0.19	1.217	1.103	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/08/86-07/08/86	2	24.745	24.745	42.9	6.59	659.208	25.675	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/08/86-07/08/86	2	19.8	19.8	29.	10.6	169.28	13.011	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/08/86-07/08/86	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
30380	BUTACHLOR UG/KG	07/08/86-07/08/86	2	43.3	43.3	45.7	40.9	11.52	3.394	**	**	**	**
30381	CHLOROBENZILATE UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
30382	TRIPHENYL PHOSPHATE UG/KG	07/08/86-07/08/86	2	23.65	23.65	24.6	22.7	1.805	1.344	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	7.55	7.55	9.	6.1	4.205	2.051	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	43.7	43.7	52.	35.4	137.78	11.738	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	251.	251.	301.	201.	5000.	70.711	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	07/08/86-07/08/86	2	287.5	287.5	291.	284.	24.5	4.95	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	07/08/86-07/08/86	2	259.5	259.5	322.	197.	7812.5	88.388	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	462.5	462.5	575.	350.	25312.5	159.099	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	277.5	277.5	280.	275.	12.5	3.536	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	514.	514.	640.	388.	31752.	178.191	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	65.65	65.65	67.9	63.4	10.125	3.182	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	286.	286.	346.	226.	7200.	84.853	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	108.55	108.55	125.	92.1	541.205	23.264	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	07/08/86-07/08/86	2	431.	431.	500.	362.	9522.	97.581	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2 ##	200.325	200.325	399.	1.65	78943.511	280.969	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	07/08/86-07/08/86	2	5.275	5.275	7.39	3.16	8.946	2.991	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	07/08/86-07/08/86	2	204.	204.	219.	189.	450.	21.213	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	07/08/86-07/08/86	2	81.45	81.45	105.	57.9	1109.205	33.305	**	**	**	**
38823	ISOPROPALIN SEDDRYWGTUG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/08/86-07/08/86	2 ##	0.125	0.125	0.15	0.1	0.001	0.035	**	**	**	**
75039	TRICHLOROBENZENE,1,2,4 SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	2.425	2.425	3.2	1.65	1.201	1.096	**	**	**	**
75040	HEXACHLOROBUTADIENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	1.55	1.55	1.65	1.45	0.02	0.141	**	**	**	**
75041	BHC,ALPHA- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75042	HEXACHLOROBENZENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75043	PENTACHLOROANISOLE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75044	HEPTACHLOR SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75045	HEPTACHLOR EPOXIDE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75046	DDE,P,P'-(4,4'-DDE) SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75047	DIELDRIN SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75048	ENDRIN SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
75050	ALACHLOR UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**

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Parameter Inventory for Station: FRHI0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
75051	DICHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
75052	OCTACHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
75054	DECACHLOROBIPHENYL,TOTAL SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
75558	BIPHENYL SEDIMENT,DRY WGT,UG/KG	07/08/86-07/08/86	2	49.65	49.65	57.7	41.6	129.605	11.384	**	**	**	**
78639	METHYLCHRYSENE METHYLBENZANTHRACENE IN SED UG/KG	07/08/86-07/08/86	2	147.	147.	162.	132.	450.	21.213	**	**	**	**
78657	NONACHLOR, TRANS, SEDIMENT, DRY WEIGHT, UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
78817	TRIMETHYL PHENANTHRENE IN SEDIMENT DRY WGT UG/KG	07/08/86-07/08/86	2 ##	1.55	1.55	1.65	1.45	0.02	0.141	**	**	**	**
78828	BENZO(GHI)PERYLENE IN SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2	286.	286.	381.	191.	18050.	134.35	**	**	**	**
78875	MONOCHLOROBIPHENYLS TOTAL IN SED DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	2.95	2.95	5.4	0.5	12.005	3.465	**	**	**	**
78924	NONACHLOR, CIS, SEDIMENT, DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79785	TRICHLOROBENZENE,1,3,5- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	1.55	1.55	1.65	1.45	0.02	0.141	**	**	**	**
79786	TRICHLOROBENZENE,1,2,3- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2	4.2	4.2	4.4	4.	0.08	0.283	**	**	**	**
79787	TETRACHLOROBENZENE,1,2,4,5- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	1.55	1.55	1.65	1.45	0.02	0.141	**	**	**	**
79789	TETRACHLOROBENZENE,1,2,3,4- SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	1.55	1.55	1.65	1.45	0.02	0.141	**	**	**	**
79790	PENTACHLOROBENZENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	1.55	1.55	1.65	1.45	0.02	0.141	**	**	**	**
79791	DIPHENYL DISULFIDE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79792	CHLORPYRIFOS SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79793	OCTACHLOROSTYRENE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79794	OXYCHLORDANE SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79795	CHLORDANE, TRANS SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79796	CHLORDANE, CIS SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79797	NITROFEN SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	7.725	7.725	8.2	7.25	0.451	0.672	**	**	**	**
79798	METHOXYCHLOR SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
79799	DICOFOL (KELTHANE) SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	15.425	15.425	16.35	14.5	1.711	1.308	**	**	**	**
79800	MIREX SEDIMENT,DRY,WT,UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
81618	TREFLAN(TRIFLURALIN) IN SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
81808	PENTACHLORONITROBENZENE IN SEDIMENT DRY WGT UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**
81876	TRICHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	1.45	1.45	2.4	0.5	1.805	1.344	**	**	**	**
81878	TETRACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	0.9	0.9	1.3	0.5	0.32	0.566	**	**	**	**
81880	PENTACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	3.2	3.2	5.9	0.5	14.58	3.818	**	**	**	**
81882	HEXACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
81884	HEPTACHLOROBIPHENYL SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	07/08/86-07/08/86	2 ##	3.875	3.875	4.1	3.65	0.101	0.318	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	2	2	1.00	2	2	1.00									

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

Station Inventory for Station: FRHI0035

NPS Station ID: FRHI0035
LAT/LON: 39.741948/ -79.900004
Agency: 21PA
Date Created: 03/05/88
Location: CHEAT RVR-SR0119 BR AT PT MARION
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): WQN0727 /PFBC8-010
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: CHEAT RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005027000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.14
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	116	11.	11.991	28.	0.	68.061	8.25	1.7	4.	18.	24.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	72	4000.	5042.236	20600.	0.	28998353.676	5385.012	0.	240.	7275.	14600.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	112	125.	161.777	595.	62.	10905.058	104.427	87.	101.5	171.5	330.8
00300	OXYGEN, DISSOLVED MG/L	01/27/88-04/13/89	16	12.	11.519	15.	7.7	7.106	2.666	7.91	8.3	13.95	14.86
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	112	6.3	6.258	7.6	4.5	0.273	0.522	5.7	6.	6.6	6.8
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	112	6.3	5.81	7.6	4.5	0.475	0.689	5.7	6.	6.6	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	112	0.501	1.548	31.623	0.025	16.709	4.088	0.158	0.251	1.	1.995
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	114	6.1	5.861	7.2	4.1	0.569	0.754	4.7	5.2	6.4	6.65
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	114	6.1	5.162	7.2	4.1	1.061	1.03	4.7	5.2	6.4	6.65
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	114	0.794	6.884	79.433	0.063	228.815	15.127	0.225	0.398	6.31	19.953
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	111	5.	6.791	32.	0.	38.187	6.18	2.	3.	8.	14.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	83	92.	184.47	5986.	16.	420270.155	648.282	58.8	74.	130.	222.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	93	6.	9.022	120.	1.	243.869	15.616	1.	1.	10.	18.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	115	0.11	0.143	0.57	0.03	0.009	0.093	0.06	0.08	0.17	0.264
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	115 ##	0.004	0.005	0.038	0.002	0.	0.004	0.002	0.002	0.006	0.008
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	115	0.55	0.569	1.29	0.25	0.03	0.174	0.376	0.44	0.7	0.818
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	115	0.02	0.025	0.35	0.01	0.001	0.033	0.01	0.01	0.03	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	115	1.6	1.709	6.4	0.5	0.931	0.965	0.5	1.1	2.1	2.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	115	45.	56.487	193.	24.	1080.691	32.874	31.6	39.	59.	107.8
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	115	46.	56.748	236.	10.	1699.103	41.22	26.6	33.	59.	107.6
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/06/88-10/06/88	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	115 ##	5.	13.435	160.	5.	433.406	20.818	5.	5.	13.	29.2
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	115	525.	741.287	7220.	181.	709324.47	842.214	250.8	360.	819.	1410.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	115	7.	11.1	154.	0.5	274.404	16.565	1.6	4.	12.	23.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	115	244.	265.043	787.	75.	15394.954	124.076	143.6	194.	298.	429.8
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	115 ##	12.5	35.413	1210.	12.5	15220.304	123.371	12.5	12.5	12.5	40.2
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	115	34.	38.913	333.	5.	1421.098	37.697	11.6	23.	47.	54.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	115	954.	997.287	6070.	161.	550047.452	741.652	298.2	465.	1360.	1676.
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-09/27/94	2 ##	0.026	0.026	0.05	0.003	0.001	0.034	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/06/88-10/06/88	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/06/88-09/27/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/06/88-09/27/94	2 ##	0.006	0.006	0.01	0.003	0.	0.005	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/06/88-09/27/94	2 ##	0.006	0.006	0.01	0.003	0.	0.005	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/27/94	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/27/94	1	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/27/94-09/27/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/27/94-09/27/94	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/06/88-09/27/94	2 ##	0.006	0.006	0.01	0.003	0.	0.005	**	**	**	**

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

Parameter Inventory for Station: FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39105	PERCENT FAT HEXANE EXTRACTION	10/06/88-09/27/94	2	3.9	3.9	5.1	2.7	2.88	1.697	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	2 ##	0.015	0.015	0.025	0.005	0.	0.014	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	2 ##	0.015	0.015	0.025	0.005	0.	0.014	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/06/88-09/27/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	2 ##	0.013	0.013	0.016	0.01	0.	0.004	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/06/88-09/27/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/06/88-09/27/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/06/88-09/27/94	2 ##	0.173	0.173	0.22	0.125	0.005	0.067	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/06/88-09/27/94	2 ##	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	09/27/94-09/27/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/06/88-09/27/94	2	75.5	75.5	77.	74.	4.5	2.121	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/27/94-09/27/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/27/94	2 ##	0.018	0.018	0.02	0.015	0.	0.004	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/27/94	2	0.355	0.355	0.4	0.31	0.004	0.064	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/27/94	2 ##	0.055	0.055	0.06	0.05	0.	0.007	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-09/27/94	2 ##	0.002	0.002	0.003	0.001	0.	0.001	**	**	**	**
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/27/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/27/94	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/06/88-09/27/94	2	5.	5.	5.	5.	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/06/88-09/27/94	2 ##	0.038	0.038	0.05	0.025	0.	0.018	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/27/94-09/27/94	1	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	09/27/94-09/27/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/27/94-09/27/94	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

EPA Water Quality Criteria Analysis for Station: FRHI0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	16	0	0.00	4	0	0.00	8	0	0.00	4	0	0.00			
00400	PH	Other-Hi Lim.	9.	112	0	0.00	37	0	0.00	47	0	0.00	28	0	0.00			
		Other-Lo Lim.	6.5	112	79	0.71	37	17	0.46	47	39	0.83	28	23	0.82			
00403	PH, LAB	Other-Hi Lim.	9.	114	0	0.00	37	0	0.00	47	0	0.00	30	0	0.00			
		Other-Lo Lim.	6.5	114	100	0.88	37	26	0.70	47	46	0.98	30	28	0.93			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	115	0	0.00	37	0	0.00	47	0	0.00	31	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	115	0	0.00	37	0	0.00	47	0	0.00	31	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	115	0	0.00	37	0	0.00	47	0	0.00	31	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	115	22	0.19	37	9	0.24	47	10	0.21	31	3	0.10			
		Drinking Water	1300.	115	0	0.00	37	0	0.00	47	0	0.00	31	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	115	1	0.01	37	0	0.00	47	1	0.02	31	0	0.00			
		Drinking Water	15.	115	24	0.21	37	9	0.24	47	10	0.21	31	5	0.16			
01067	NICKEL, TOTAL	Fresh Acute	1400.	115	0	0.00	37	0	0.00	47	0	0.00	31	0	0.00			
		Drinking Water	100.	115	3	0.03	37	0	0.00	47	1	0.02	31	2	0.06			
01092	ZINC, TOTAL	Fresh Acute	120.	115	3	0.03	37	0	0.00	47	3	0.06	31	0	0.00			
		Drinking Water	5000.	115	0	0.00	37	0	0.00	47	0	0.00	31	0	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 1988 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	12	11.	10.917	26.	0.	92.083	9.596	0.	1.25	20.	25.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	9	180.	191.222	358.	87.	7155.944	84.593	87.	122.5	248.	358.
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	9	6.1	6.578	7.6	5.8	0.532	0.729	5.8	6.	7.35	7.6
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	9	6.1	6.206	7.6	5.8	0.687	0.829	5.8	6.	7.35	7.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	9	0.794	0.622	1.585	0.025	0.335	0.579	0.025	0.045	1.	1.585
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	12	5.75	5.508	6.3	4.1	0.443	0.665	4.34	4.9	6.075	6.24
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	12	5.747	4.97	6.3	4.1	0.759	0.871	4.34	4.9	6.075	6.24
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	1.79	10.718	79.433	0.501	493.456	22.214	0.589	0.846	12.589	59.38
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	11	4.	4.182	16.	2.	16.364	4.045	2.	2.	4.	13.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	12	7.	9.167	28.	1.	85.788	9.262	1.	1.	18.5	25.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.12	0.126	0.26	0.05	0.003	0.056	0.059	0.083	0.153	0.236
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12 ##	0.002	0.004	0.008	0.002	0.	0.002	0.002	0.002	0.006	0.007
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.566	0.598	0.88	0.25	0.036	0.19	0.295	0.48	0.785	0.856
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12	0.03	0.052	0.35	0.01	0.009	0.094	0.01	0.02	0.03	0.257
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.4	1.383	2.4	0.5	0.418	0.646	0.5	0.65	1.95	2.31
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	50.	61.583	149.	32.	1214.811	34.854	32.9	38.25	79.25	135.2
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	50.	64.083	182.	28.	2016.083	44.901	28.9	37.	83.5	161.3
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12	10.5	14.667	67.	5.	291.152	17.063	5.	5.	14.25	52.6
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	519.	511.75	1290.	206.	77948.75	279.193	224.6	293.25	570.5	1080.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	8.	11.833	28.	5.	59.788	7.732	5.3	6.25	16.25	27.1
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	293.5	356.25	787.	143.	44919.114	211.941	158.9	200.25	441.25	772.6
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	12.5	24.792	65.	12.5	337.475	18.371	12.5	12.5	35.5	61.7
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	46.	49.	154.	10.	1460.545	38.217	10.9	27.	49.75	132.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	481.5	543.667	1250.	171.	116268.242	340.981	172.8	259.5	731.25	1184.

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	12	8.	9.417	21.	0.	57.72	7.597	0.	1.25	17.5	20.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	12	107.5	143.	544.	80.	16335.455	127.81	80.	88.25	133.75	421.3
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.1	5.85	6.8	4.5	0.639	0.799	4.56	5.05	6.5	6.71
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.089	5.219	6.8	4.5	1.074	1.036	4.56	5.05	6.5	6.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.815	6.044	31.623	0.158	100.358	10.018	0.206	0.316	9.077	28.122
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	11	6.1	5.655	6.8	4.3	0.857	0.926	4.32	5.	6.5	6.76
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	11	6.1	4.953	6.8	4.3	1.398	1.183	4.32	5.	6.5	6.76
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	11	0.794	11.149	50.119	0.158	303.102	17.41	0.177	0.316	10.	48.057
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	9	6.	4.778	8.	2.	5.444	2.333	2.	2.	6.5	8.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	11	6.	7.182	18.	1.	25.364	5.036	1.2	4.	10.	17.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.08	0.079	0.09	0.06	0.	0.012	0.06	0.07	0.09	0.09
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12 ##	0.002	0.002	0.004	0.002	0.	0.001	0.002	0.002	0.002	0.003
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.47	0.527	0.79	0.37	0.02	0.141	0.37	0.425	0.643	0.778
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12	0.03	0.031	0.05	0.02	0.	0.011	0.02	0.02	0.038	0.05
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.35	1.65	3.3	1.	0.51	0.714	1.	1.1	2.1	3.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	42.5	44.167	59.	31.	52.333	7.234	33.1	40.5	49.5	56.9
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	45.5	44.5	59.	27.	100.091	10.005	28.5	37.5	51.75	59.
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12 ##	5.	6.167	19.	5.	16.333	4.041	5.	5.	5.	14.8
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	759.	743.25	1540.	292.	125424.023	354.153	312.4	413.25	965.	1390.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	9.	8.583	17.	2.	28.629	5.351	2.	2.5	12.75	16.4
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	261.	247.75	371.	125.	4128.205	64.251	137.3	208.5	287.25	348.8
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	12.5	18.333	70.	12.5	277.652	16.663	12.5	12.5	12.5	56.5
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	32.	28.5	50.	5.	178.455	13.359	5.	21.75	37.5	46.7
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	590.5	569.667	1010.	161.	87583.879	295.946	180.2	297.	831.25	995.

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	12	10.5	9.583	18.	0.	41.538	6.445	0.6	4.	16.25	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	3	1200.	1803.333	3910.	300.	3531033.333	1879.104	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	12	101.5	121.083	314.	62.	4188.083	64.715	69.8	92.	124.	264.8
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.5	6.333	6.8	5.8	0.102	0.32	5.86	6.	6.5	6.77
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.5	6.225	6.8	5.8	0.115	0.34	5.86	6.	6.5	6.77
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.316	0.596	1.585	0.158	0.201	0.448	0.171	0.316	1.	1.409
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	12	6.35	6.133	6.9	4.5	0.462	0.68	4.65	6.2	6.475	6.78
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	12	6.347	5.418	6.9	4.5	1.021	1.01	4.65	6.2	6.475	6.78
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.45	3.82	31.623	0.126	84.262	9.179	0.183	0.337	0.631	25.136
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	5.5	6.333	28.	0.	50.606	7.114	0.3	4.	6.	21.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	4	96.	94.5	104.	82.	107.667	10.376	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	8	2.	13.875	58.	1.	436.411	20.89	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.105	0.105	0.2	0.05	0.002	0.041	0.053	0.068	0.128	0.182
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12 ##	0.002	0.004	0.01	0.002	0.	0.003	0.002	0.002	0.006	0.009
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.675	0.711	1.29	0.4	0.057	0.239	0.424	0.57	0.863	1.176
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12	0.025	0.028	0.07	0.01	0.	0.016	0.01	0.02	0.03	0.061
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.7	1.733	3.4	0.5	0.573	0.757	0.65	1.15	2.175	3.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	46.	52.917	123.	28.	604.447	24.586	31.3	39.	60.	105.9
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	45.5	52.917	139.	23.	854.992	29.24	25.4	41.25	57.75	115.6
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12	20.	21.417	45.	5.	151.902	12.325	5.	12.25	30.25	42.
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	564.	730.	1800.	388.	238328.727	488.189	390.4	417.75	718.5	1764.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	13.	15.25	36.	6.	89.477	9.459	6.	7.25	22.	33.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	293.	303.833	434.	182.	7275.97	85.299	185.6	242.	375.5	431.9
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	19.25	27.5	98.	12.5	589.591	24.281	12.5	12.5	33.75	79.7
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	31.	35.25	69.	17.	244.386	15.633	17.6	23.5	48.5	63.3
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	545.5	652.083	1380.	251.	135779.538	368.483	269.6	360.	809.	1362.

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Annual Analysis for 1991 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	13	10.	11.154	18.	2.	27.474	5.242	3.2	7.5	17.	17.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	12	1600.	2633.333	8000.	0.	9009696.97	3001.616	0.	100.	5000.	8000.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	13	147.	213.462	425.	68.	16774.769	129.517	77.2	116.	351.	423.8
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	13	6.2	6.223	6.8	5.	0.265	0.515	5.28	6.	6.75	6.8
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	13	6.2	5.863	6.8	5.	0.406	0.637	5.28	6.	6.75	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	13	0.631	1.372	10.	0.158	6.987	2.643	0.158	0.179	1.	6.798
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	13	6.3	6.162	7.2	4.4	0.803	0.896	4.52	5.65	7.	7.12
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	13	6.3	5.282	7.2	4.4	1.642	1.281	4.52	5.65	7.	7.12
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	13	0.501	5.23	39.811	0.063	136.772	11.695	0.078	0.1	2.254	31.867
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	13	6.	8.769	22.	0.	53.692	7.328	0.4	3.	15.5	20.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	13	100.	580.308	5986.	60.	2643215.897	1625.797	64.8	82.	222.	3710.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	13	0.11	0.111	0.15	0.07	0.001	0.024	0.074	0.09	0.13	0.146
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	13	0.004	0.005	0.012	0.002	0.	0.003	0.002	0.002	0.007	0.011
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	13	0.63	0.624	0.85	0.33	0.034	0.185	0.354	0.42	0.805	0.846
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	13	0.02	0.022	0.05	0.01	0.	0.011	0.01	0.015	0.03	0.042
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	13	1.9	1.7	3.8	0.5	0.917	0.957	0.5	0.75	2.05	3.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	13	55.	75.231	153.	32.	1841.192	42.909	34.8	40.	119.	149.
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	13	50.	76.308	190.	29.	3136.064	56.001	29.	42.	116.5	183.6
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	13	19.	19.846	45.	5.	204.474	14.299	5.	5.	31.5	42.6
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	13	357.	631.615	1690.	181.	295839.756	543.912	184.6	202.	1158.	1594.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	13	8.	12.	52.	2.	162.833	12.761	2.8	6.	12.	38.8
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	13	247.	243.462	343.	168.	2820.103	53.105	170.8	197.	292.5	325.
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	13 ##	12.5	18.154	45.	12.5	124.933	11.177	12.5	12.5	21.25	41.4
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	13	36.	33.615	54.	5.	277.59	16.661	7.8	18.	48.5	53.6

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Annual Analysis for 1991 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	13	551.	713.769	1650.	223.	201286.359	448.649	265.	337.5	1075.	1522.

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Annual Analysis for 1992 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	11	14.	12.727	26.	0.	75.418	8.684	0.4	4.	20.	25.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	12	4000.	3646.667	8000.	0.	6634042.424	2575.663	3.	1425.	5962.5	7400.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	11	118.	132.	230.	77.	2397.	48.959	79.	99.	173.	224.6
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	11	6.2	6.136	6.7	5.7	0.077	0.277	5.72	6.	6.3	6.62
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	11	6.2	6.062	6.7	5.7	0.083	0.288	5.72	6.	6.3	6.62
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	11	0.631	0.868	1.995	0.2	0.28	0.529	0.26	0.501	1.	1.913
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	11	5.9	5.736	6.6	5.	0.403	0.634	5.	5.	6.4	6.58
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	11	5.9	5.395	6.6	5.	0.531	0.729	5.	5.	6.4	6.58
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	11	1.259	4.028	10.	0.251	18.071	4.251	0.264	0.398	10.	10.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	11	5.	4.909	10.	1.	8.491	2.914	1.2	2.	7.	9.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	11	82.	100.455	179.	60.	1688.073	41.086	61.2	67.	118.	176.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	6 ##	2.	4.	11.	1.	17.2	4.147	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	11	0.09	0.11	0.21	0.03	0.003	0.054	0.038	0.07	0.16	0.202
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	11 ##	0.002	0.003	0.006	0.002	0.	0.002	0.002	0.002	0.002	0.006
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	11	0.48	0.54	0.75	0.33	0.017	0.132	0.352	0.44	0.64	0.74
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	11	0.02	0.019	0.03	0.01	0.	0.005	0.01	0.02	0.02	0.028
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	11	1.2	1.427	3.7	0.5	0.674	0.821	0.6	1.1	1.3	3.34
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	11	43.	49.273	91.	28.	482.618	21.969	28.2	34.	71.	89.4
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	11	42.	47.364	95.	13.	596.855	24.431	15.8	30.	72.	91.6
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	11	10.	36.182	160.	5.	3085.564	55.548	5.	5.	50.	153.8
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	11	411.	487.182	997.	214.	64475.764	253.921	221.	280.	626.	964.6
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	11	8.	11.909	32.	2.	88.091	9.386	2.6	5.	19.	30.2
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	11	244.	288.091	558.	125.	21342.891	146.092	132.8	194.	404.	553.4
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	11 ##	12.5	46.591	298.	12.5	7194.091	84.818	12.5	12.5	42.	250.2
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	11	36.	53.091	218.	27.	3077.091	55.472	27.	27.	47.	184.6
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	11	1300.	1223.091	2560.	299.	491532.291	701.094	340.	523.	1760.	2422.

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Annual Analysis for 1993 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	12	12.	13.917	28.	2.	88.811	9.424	2.6	4.75	23.5	27.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	12	3300.	4625.	19900.	0.	34054772.727	5835.647	0.	0.	7650.	16330.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	12	155.	254.167	595.	96.	33494.879	183.016	102.3	118.5	405.5	587.2
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.5	6.3	6.8	4.8	0.382	0.618	5.07	5.9	6.8	6.8
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.455	5.732	6.8	4.8	0.733	0.856	5.07	5.9	6.8	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.35	1.852	15.849	0.158	19.795	4.449	0.158	0.158	1.346	11.693
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	12	5.9	5.7	7.	4.1	0.987	0.994	4.22	4.85	6.7	6.94
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	12	5.9	4.9	7.	4.1	1.685	1.298	4.22	4.85	6.7	6.94
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	1.259	12.59	79.433	0.1	532.996	23.087	0.118	0.2	14.387	65.09
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	4.	10.333	32.	0.	140.788	11.865	0.	2.	21.	31.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	12	103.5	167.25	405.	48.	14510.568	120.46	58.2	82.	269.5	389.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	12	3.5	5.167	15.	1.	24.333	4.933	1.	1.	8.	14.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.11	0.136	0.38	0.04	0.009	0.095	0.043	0.08	0.158	0.341
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.004	0.007	0.026	0.002	0.	0.007	0.002	0.002	0.009	0.022
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.62	0.661	0.94	0.4	0.031	0.176	0.412	0.52	0.835	0.913
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12	0.02	0.023	0.08	0.01	0.	0.019	0.01	0.013	0.02	0.065

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Annual Analysis for 1993 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.45	1.692	3.2	0.5	0.797	0.893	0.5	1.025	2.575	3.05
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	53.5	86.083	193.	34.	3563.538	59.695	35.8	42.	136.5	192.4
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	54.5	91.083	236.	26.	5829.356	76.35	27.2	36.25	150.5	233.3
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12 ##	5.	8.	18.	5.	17.818	4.221	5.	5.	10.75	16.2
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	478.5	607.417	2370.	192.	329550.447	574.065	210.6	372.	579.25	1879.8
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	5.	18.417	154.	2.	1863.174	43.165	2.	2.	8.25	115.3
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	229.	229.417	381.	75.	11007.538	104.917	79.5	120.25	331.25	373.5
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	12.5	15.917	39.	12.5	70.22	8.38	12.5	12.5	12.5	35.4
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	44.	41.5	56.	18.	121.182	11.008	21.6	34.5	49.	55.1
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	1465.	1512.5	2530.	1060.	130693.182	361.515	1105.	1337.5	1617.5	2257.

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Annual Analysis for 1994 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	13	12.	12.692	26.	1.	84.064	9.169	1.4	2.5	22.	25.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	12	6300.	5950.833	17460.	0.	20650349.242	4544.266	0.	3300.	7275.	14622.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	12	148.5	162.75	348.	66.	6997.659	83.652	72.	104.25	176.75	333.9
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	13	6.3	6.366	6.8	5.7	0.103	0.321	5.88	6.2	6.705	6.8
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	13	6.3	6.253	6.8	5.7	0.117	0.342	5.88	6.2	6.705	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	13	0.501	0.558	1.995	0.158	0.229	0.479	0.158	0.197	0.631	1.48
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	12	6.1	5.825	6.6	4.5	0.477	0.69	4.53	5.35	6.2	6.57
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	12	6.1	5.235	6.6	4.5	0.856	0.925	4.53	5.35	6.2	6.57
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.794	5.821	31.623	0.251	115.506	10.747	0.271	0.631	5.128	29.672
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	5.5	7.483	22.	0.	42.512	6.52	0.24	3.	12.75	19.9
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	12	98.	110.333	186.	48.	2231.152	47.235	52.2	75.	155.5	185.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	12	7.	16.417	120.	1.	1084.992	32.939	1.3	4.	11.	89.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.13	0.173	0.44	0.06	0.017	0.129	0.063	0.09	0.253	0.428
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.005	0.008	0.038	0.002	0.	0.01	0.002	0.003	0.008	0.029
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.515	0.507	0.74	0.31	0.015	0.123	0.328	0.408	0.58	0.716
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12 ##	0.015	0.022	0.08	0.01	0.	0.02	0.01	0.01	0.02	0.068
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.6	2.042	6.4	1.	2.197	1.482	1.	1.15	2.325	5.32
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	47.5	52.667	124.	24.	702.97	26.514	24.6	34.75	62.75	107.5
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	41.	49.583	119.	10.	1120.992	33.481	10.	30.5	60.75	115.1
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12 ##	5.	8.167	23.	5.	37.424	6.118	5.	5.	11.	21.2
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	661.	1042.75	5000.	211.	1731735.841	1315.954	223.3	291.	1262.5	3932.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	6.5	10.75	34.	3.	89.295	9.45	3.3	4.25	17.75	30.1
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	266.	276.75	485.	113.	12536.386	111.966	129.2	180.5	359.25	467.6
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	12.5	13.625	26.	12.5	15.188	3.897	12.5	12.5	12.5	21.95
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	37.5	62.583	333.	5.	7588.811	87.114	9.8	24.5	58.5	252.6
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	1325.	1840.833	6070.	1080.	1881335.606	1371.618	1113.	1217.5	1942.5	4864.

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Annual Analysis for 1995 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	12	17.	14.167	26.	0.	81.242	9.013	0.6	4.75	21.5	25.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	12	4980.	6285.083	20000.	0.	47782175.538	6912.465	0.	0.	11900.	18800.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	12	140.	150.75	222.	96.	1756.568	41.911	99.9	112.	191.75	215.7
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.35	6.228	6.7	4.9	0.279	0.528	5.086	6.14	6.6	6.7
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	12	6.347	5.785	6.7	4.9	0.494	0.703	5.086	6.14	6.6	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.45	1.642	12.589	0.2	12.479	3.533	0.2	0.251	0.727	9.718
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	12	6.3	5.917	6.5	4.1	0.576	0.759	4.37	5.35	6.4	6.5

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Annual Analysis for 1995 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	12	6.3	5.075	6.5	4.1	1.348	1.161	4.37	5.35	6.4	6.5
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.501	8.408	79.433	0.316	509.575	22.574	0.316	0.398	5.128	58.603
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	6.5	6.083	13.	0.	11.174	3.343	0.9	3.25	7.75	11.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	12	109.	119.667	304.	16.	5094.424	71.375	31.	79.	149.5	263.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	12	8.	12.333	68.	1.	346.424	18.612	1.	1.	14.5	53.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.225	0.274	0.57	0.16	0.014	0.119	0.166	0.193	0.343	0.519
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.004	0.004	0.008	0.002	0.	0.002	0.002	0.004	0.004	0.007
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.54	0.532	0.83	0.37	0.016	0.128	0.376	0.43	0.565	0.785
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12	0.02	0.025	0.06	0.01	0.	0.014	0.01	0.013	0.03	0.054
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.8	1.75	3.3	0.5	0.514	0.717	0.65	1.125	2.1	2.94
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	47.5	50.75	90.	29.	308.205	17.556	30.8	36.5	64.5	83.7
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	44.	51.667	98.	25.	516.97	22.737	26.2	33.5	67.75	93.8
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12 ##	5.	7.167	24.	5.	32.152	5.67	5.	5.	5.	20.4
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	430.5	1015.333	7220.	223.	3863540.242	1965.589	236.8	273.	683.75	5336.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	9.	12.417	59.	4.	226.629	15.054	4.	5.	11.5	45.8
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	222.5	290.333	653.	144.	26466.788	162.686	145.5	197.	418.5	611.3
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	35.5	33.583	56.	5.	155.538	12.471	10.4	26.25	41.	51.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	1270.	1404.083	2750.	989.	237810.992	487.659	1004.3	1047.5	1625.	2435.

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Annual Analysis for 1996 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	12	11.5	13.25	26.	0.	86.75	9.314	0.6	5.5	23.75	26.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/18/90-09/17/96	9	8000.	8882.222	20600.	220.	58082744.444	7621.204	220.	1310.	16600.	20600.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	12	115.	116.417	170.	70.	1163.72	34.113	71.5	84.	145.25	169.1
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	11	6.5	6.309	6.7	5.7	0.129	0.359	5.7	6.1	6.6	6.68
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	11	6.5	6.159	6.7	5.7	0.154	0.392	5.7	6.1	6.6	6.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	11	0.316	0.694	1.995	0.2	0.452	0.673	0.21	0.251	0.794	1.995
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	12	6.05	5.842	6.4	4.7	0.375	0.613	4.73	5.325	6.35	6.4
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	12	6.047	5.386	6.4	4.7	0.602	0.776	4.73	5.325	6.35	6.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	12	0.897	4.113	19.953	0.398	44.907	6.701	0.398	0.456	5.231	18.722
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	7.	7.	14.	2.	16.909	4.112	2.	3.25	10.75	13.1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	12	83.5	81.583	130.	50.	498.447	22.326	52.4	60.5	92.	122.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	12	5.5	6.5	16.	1.	34.455	5.87	1.	1.	11.5	16.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.14	0.173	0.33	0.05	0.011	0.106	0.053	0.073	0.265	0.33
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.004	0.005	0.01	0.002	0.	0.003	0.002	0.002	0.008	0.009
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	12	0.44	0.469	0.77	0.3	0.021	0.145	0.306	0.348	0.54	0.749
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	12 ##	0.01	0.013	0.02	0.01	0.	0.005	0.01	0.01	0.018	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	12	1.9	2.258	4.8	0.5	2.059	1.435	0.5	1.2	3.5	4.71
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	12	40.5	43.167	74.	27.	182.152	13.496	27.3	33.	53.	68.6
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	12	44.	43.833	96.	18.	486.152	22.049	18.9	25.25	57.5	85.8
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	12 ##	5.	5.583	12.	5.	4.083	2.021	5.	5.	5.	9.9
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	12	1007.	1002.25	1740.	388.	144034.932	379.519	458.8	710.25	1257.5	1653.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	12	1.	3.833	19.	0.5	30.47	5.52	0.5	1.	4.75	16.3
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	12	201.	207.667	341.	106.	6261.152	79.127	106.9	123.5	277.	325.4
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	12 ##	12.5	157.042	1210.	12.5	130806.839	361.672	12.5	12.5	36.875	1002.1
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	12	19.5	23.667	52.	5.	274.242	16.56	5.	10.25	36.25	51.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	12	891.5	908.583	1950.	325.	243732.265	493.692	338.5	430.75	1307.5	1788.

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Annual Analysis for 1997 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	7	11.	12.286	28.	3.	83.238	9.123	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	7	103.	113.286	159.	91.	534.905	23.128	**	**	**	**
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	7	6.4	6.371	6.7	5.8	0.109	0.33	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	7	6.4	6.255	6.7	5.8	0.125	0.354	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	7	0.398	0.556	1.585	0.2	0.24	0.49	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	7	6.2	6.229	6.3	6.1	0.006	0.076	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	7	6.2	6.223	6.3	6.1	0.006	0.076	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	7	0.631	0.599	0.794	0.501	0.012	0.108	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	7	7.	7.143	9.	5.	2.476	1.574	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	7	68.	76.857	138.	50.	953.143	30.873	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	7	6.	4.143	8.	1.	9.143	3.024	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	7	0.15	0.15	0.2	0.07	0.002	0.044	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	7 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	7	0.49	0.483	0.57	0.38	0.005	0.067	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	7 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	7	1.5	1.229	1.7	0.5	0.309	0.556	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	7	36.	40.	62.	28.	137.667	11.733	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	7	33.	34.429	57.	21.	133.286	11.545	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	7	544.	549.286	770.	214.	44901.905	211.901	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	7	1.	2.357	8.	0.5	7.476	2.734	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	7	161.	171.714	231.	109.	1802.238	42.453	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	7 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	7	19.	23.571	45.	10.	134.619	11.603	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	7	414.	396.857	668.	173.	30335.81	174.172	**	**	**	**

** - Less than 9 observations ## - Computed 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: 7/01 to 10/31 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	37	20.	20.378	28.	10.	23.297	4.827	14.	17.	25.	26.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	37	164.	209.243	595.	77.	17061.523	130.62	88.4	117.5	251.	423.2
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	37	6.6	6.528	7.4	5.	0.18	0.425	6.08	6.25	6.8	6.84
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	37	6.6	6.206	7.4	5.	0.287	0.536	6.08	6.25	6.8	6.84
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	37	0.251	0.623	10.	0.04	2.605	1.614	0.147	0.158	0.566	0.835
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	37	6.4	6.208	7.	4.1	0.48	0.693	4.98	6.05	6.65	6.92
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	37	6.4	5.354	7.	4.1	1.231	1.109	4.98	6.05	6.65	6.92
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	37	0.398	4.429	79.433	0.1	207.781	14.415	0.121	0.225	0.897	10.518
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	35	8.	10.8	32.	2.	60.224	7.76	2.6	6.	14.	24.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	27	114.	157.037	405.	60.	8999.191	94.864	79.8	92.	218.	313.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	31	5.	7.452	68.	1.	156.989	12.53	1.	1.	8.	12.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	37	0.13	0.159	0.57	0.03	0.013	0.114	0.058	0.09	0.19	0.356
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	37	0.004	0.005	0.026	0.002	0.	0.004	0.002	0.002	0.006	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	37	0.46	0.501	0.94	0.3	0.024	0.156	0.33	0.4	0.571	0.794
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	37	0.02	0.024	0.06	0.01	0.	0.011	0.01	0.02	0.03	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	37	2.1	2.246	4.8	0.5	0.677	0.823	1.3	1.8	2.7	3.38
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	37	62.	77.27	193.	28.	1874.758	43.298	37.8	48.5	97.	149.8
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	37	59.	81.108	236.	21.	3184.821	56.434	31.6	47.5	102.5	183.6
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	37 ##	5.	11.973	45.	5.	126.583	11.251	5.	5.	17.	32.6
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	37	393.	442.919	1050.	190.	57084.743	238.924	203.4	262.5	577.	848.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	37	8.	11.581	52.	0.5	118.827	10.901	1.8	5.	15.5	26.4
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	37	264.	306.649	787.	75.	30587.956	174.894	112.2	188.	415.5	558.6
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	37 ##	12.5	16.905	54.	12.5	95.553	9.775	12.5	12.5	12.5	29.2
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	37	27.	29.459	82.	5.	300.033	17.321	5.	16.5	41.	48.2
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	37	952.	866.514	1870.	177.	252548.868	502.542	240.2	382.5	1270.	1572.

** - Less than 9 observations ## - Computed 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 3/14 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	48	3.5	4.792	18.	0.	20.126	4.486	0.	2.	8.	12.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	44	117.5	130.727	351.	62.	3207.552	56.635	83.	93.	147.75	202.
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	47	6.2	6.16	7.6	4.5	0.256	0.506	5.664	6.	6.5	6.7
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	47	6.2	5.745	7.6	4.5	0.432	0.657	5.664	6.	6.5	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	47	0.631	1.799	31.623	0.025	23.678	4.866	0.2	0.316	1.	2.2
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	47	5.9	5.677	7.	4.1	0.504	0.71	4.58	5.	6.2	6.42
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	47	5.9	5.101	7.	4.1	0.842	0.918	4.58	5.	6.2	6.42
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	47	1.259	7.924	79.433	0.1	221.903	14.896	0.382	0.631	10.	26.42
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	46	4.	4.604	17.	0.	11.388	3.375	0.94	2.	6.	8.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	34	82.	93.912	226.	48.	1499.295	38.721	58.	67.5	106.	151.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	37	6.	8.946	58.	1.	107.053	10.347	1.	1.	14.	18.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	47	0.11	0.133	0.4	0.05	0.006	0.08	0.068	0.08	0.16	0.274
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	47 ##	0.002	0.004	0.01	0.002	0.	0.002	0.002	0.002	0.005	0.008
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	47	0.62	0.643	1.29	0.31	0.034	0.184	0.398	0.51	0.77	0.842
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	47	0.02	0.02	0.07	0.01	0.	0.012	0.01	0.01	0.02	0.032
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	47	1.3	1.453	4.5	0.5	0.687	0.829	0.5	1.	1.8	2.16
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	47	43.	45.574	115.	26.	270.728	16.454	28.8	36.	49.	62.8
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	47	40.	43.17	106.	10.	388.405	19.708	22.6	30.	50.	63.6
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	47 ##	5.	17.957	160.	5.	908.302	30.138	5.	5.	16.	46.
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	47	626.	894.064	7220.	181.	1068066.887	1033.473	279.8	392.	1180.	1468.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	47	8.	13.021	154.	0.5	548.663	23.424	1.	4.	14.	24.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	47	240.	257.809	558.	90.	9333.028	96.608	157.6	198.	292.	375.8
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	47 ##	12.5	24.074	298.	12.5	1843.	42.93	12.5	12.5	12.5	42.6
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	47	37.	49.574	333.	5.	2961.989	54.424	17.4	27.	51.	61.
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	47	1190.	1121.468	2750.	161.	370378.602	608.587	327.6	619.	1450.	1954.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/27/88-07/14/97	31	12.	13.129	26.	4.	30.383	5.512	7.	9.	17.	22.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/88-07/14/97	31	114.	149.194	544.	66.	10921.028	104.504	87.2	100.	140.	323.4
00400	PH (STANDARD UNITS)	01/27/88-07/14/97	28	6.2	6.066	6.8	4.7	0.29	0.539	4.98	5.8	6.4	6.71
00400	CONVERTED PH (STANDARD UNITS)	01/27/88-07/14/97	28	6.2	5.629	6.8	4.7	0.488	0.698	4.98	5.8	6.4	6.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	28	0.631	2.348	19.953	0.158	22.931	4.789	0.195	0.398	1.585	10.585
00403	PH, LAB, STANDARD UNITS SU	01/27/88-07/14/97	30	6.05	5.72	7.2	4.1	0.593	0.77	4.53	5.	6.3	6.4
00403	CONVERTED PH, LAB, STANDARD UNITS	01/27/88-07/14/97	30	6.047	5.082	7.2	4.1	1.014	1.007	4.53	5.	6.3	6.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/27/88-07/14/97	30	0.897	8.282	79.433	0.063	270.207	16.438	0.398	0.501	10.	30.045
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	30	4.	5.467	22.	0.	27.775	5.27	0.1	2.	7.	9.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/17/90-07/14/97	22	80.5	358.091	5986.	16.	1581732.277	1257.669	48.6	59.5	121.	181.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/88-07/14/97	25	6.	11.08	120.	1.	570.41	23.883	1.	1.	8.	24.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/27/88-07/14/97	31	0.11	0.14	0.4	0.05	0.007	0.083	0.062	0.08	0.17	0.258
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	31 ##	0.002	0.005	0.038	0.002	0.	0.007	0.002	0.002	0.005	0.008
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/27/88-07/14/97	31	0.54	0.54	0.91	0.25	0.018	0.136	0.384	0.44	0.62	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/27/88-07/14/97	31	0.02	0.034	0.35	0.01	0.004	0.062	0.01	0.01	0.03	0.074
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/27/88-07/14/97	31	1.3	1.455	6.4	0.5	1.147	1.071	0.5	1.	1.7	2.28
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/27/88-07/14/97	31	41.	48.226	143.	24.	651.981	25.534	31.	36.	50.	74.
00945	SULFATE, TOTAL (MG/L AS SO4)	01/27/88-07/14/97	31	42.	48.258	174.	10.	944.065	30.726	27.	31.	50.	81.4
01042	COPPER, TOTAL (UG/L AS CU)	01/27/88-07/14/97	31 ##	5.	8.323	28.	5.	40.626	6.374	5.	5.	11.	18.6
01045	IRON, TOTAL (UG/L AS FE)	01/27/88-07/14/97	31	602.	865.774	5000.	211.	826852.247	909.314	268.2	450.	835.	1730.
01051	LEAD, TOTAL (UG/L AS PB)	01/27/88-07/14/97	31	6.	7.613	26.	0.5	40.228	6.343	1.2	2.	10.	17.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/27/88-07/14/97	31	224.	226.355	381.	111.	3721.037	61.	155.8	175.	260.	310.2
01067	NICKEL, TOTAL (UG/L AS NI)	01/27/88-07/14/97	31 ##	12.5	74.694	1210.	12.5	52678.295	229.518	12.5	12.5	30.	90.2
01092	ZINC, TOTAL (UG/L AS ZN)	01/27/88-07/14/97	31	34.	34.032	57.	5.	185.499	13.62	16.6	23.	47.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	01/27/88-07/14/97	31	689.	965.097	6070.	171.	1172885.49	1082.998	260.2	414.	1180.	1618.

** - Less than 9 observations ## - Computed 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: FRHI0036

NPS Station ID: FRHI0036
LAT/LON: 39.739726/ -79.903892
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 89.8
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4GRP11008 /4MON13090
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 089.80
HUC: 05020003
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020003
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003700.95
RF3 Mile Point: 1.15
Distance from RF3: 0.26
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 89.8 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 7, 4.8 MILES UPSTREAM OF LOCK AND DAM NO. 7 UNDER THE POINT MARION HIGHWAY BRIDGE AT MID-CHANNEL - MORGANTOWN NORTH, W.VA. -PA. QUAD. SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/73-08/25/92	72	25.25	24.385	27.8	13.	7.827	2.798	20.3	23.	26.1	27.
00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	2	55.	55.	100.	10.	4050.	63.64	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/19/73-10/10/74	8	5.35	9.088	24.	1.5	73.761	8.588	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	2	33.	33.	36.	30.	18.	4.243	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/19/73-10/10/74	8	11.5	13.625	25.	7.	47.125	6.865	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/73-08/25/92	72	398.	410.472	795.	200.	16537.943	128.6	250.	306.	457.25	595.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	64	8.05	8.111	9.9	6.6	0.708	0.841	7.05	7.525	8.7	9.6
00400	PH (STANDARD UNITS)	04/26/74-08/25/92	63	6.43	6.377	7.26	4.7	0.302	0.55	5.6	6.	6.8	7.162
00400	CONVERTED PH (STANDARD UNITS)	04/26/74-08/25/92	63	6.43	5.976	7.26	4.7	0.466	0.683	5.6	6.	6.8	7.162
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/74-08/25/92	63	0.372	1.056	19.953	0.055	6.662	2.581	0.069	0.158	1.	2.512
00403	PH, LAB, STANDARD UNITS SU	07/19/73-10/10/74	8	5.7	5.575	6.3	4.1	0.591	0.769	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/19/73-10/10/74	8	5.655	4.901	6.3	4.1	1.11	1.054	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/73-10/10/74	8	2.211	12.562	79.433	0.501	740.667	27.215	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	8	4.5	5.375	14.	0.	17.411	4.173	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	8	13.5	13.5	22.	5.	30.571	5.529	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	07/19/73-10/10/74	8	0.	1.25	10.	0.	12.5	3.536	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	07/19/73-10/10/74	8	10.5	11.5	20.	5.	19.143	4.375	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/17/74-10/10/74	4	8.5	12.725	33.	0.9	223.703	14.957	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/19/73-10/10/74	8	146.5	156.5	298.	78.	4509.143	67.15	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/74-10/10/74	6	133.5	123.167	155.	62.	1204.567	34.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/19/73-10/10/74	6	1070.	1143.333	1680.	890.	74866.667	273.618	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/74-10/10/74	5	460.	535.	790.	450.	20975.	144.827	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	07/19/73-10/10/74	8	0.	7.	22.	0.	98.286	9.914	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	8	0	0.00	5	0	0.00				3	0	0.00			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	64	0	0.00	51	0	0.00				13	0	0.00			
00400	PH	Other-Hi Lim.	9.	63	0	0.00	55	0	0.00				8	0	0.00			
		Other-Lo Lim.	6.5	63	41	0.65	55	38	0.69				8	3	0.38			
00403	PH, LAB	Other-Hi Lim.	9.	8	0	0.00	5	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	8	8	1.00	5	5	1.00				3	3	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00				3	0	0.00			

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

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/73-08/25/92	56	25.5	25.357	27.8	15.	3.69	1.921	24.1	24.7	26.3	27.31
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/73-08/25/92	56	401.	424.446	795.	229.	17847.27	133.594	279.9	306.	457.25	598.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	51	7.9	7.8	8.7	6.6	0.343	0.586	6.84	7.5	8.3	8.58
00400	PH (STANDARD UNITS)	04/26/74-08/25/92	55	6.4	6.361	7.26	4.7	0.326	0.571	5.6	6.	6.9	7.174
00400	CONVERTED PH (STANDARD UNITS)	04/26/74-08/25/92	55	6.4	5.943	7.26	4.7	0.503	0.709	5.6	6.	6.9	7.174
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/74-08/25/92	55	0.398	1.14	19.953	0.055	7.557	2.749	0.067	0.126	1.	2.512

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/73-08/25/92	16	22.7	20.981	23.	13.	7.632	2.763	17.13	18.925	23.	23.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/73-08/25/92	16	385.	361.563	491.	200.	9558.929	97.77	235.	250.	456.25	489.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	13	9.6	9.331	9.9	8.7	0.264	0.514	8.7	8.7	9.8	9.86
00400	PH (STANDARD UNITS)	04/26/74-08/25/92	8	6.67	6.493	6.8	5.8	0.149	0.386	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/26/74-08/25/92	8	6.669	6.316	6.8	5.8	0.185	0.43	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/74-08/25/92	8	0.214	0.483	1.585	0.158	0.278	0.527	**	**	**	**

** - Less than 9 observations ## - Computed 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: FRHI0037

NPS Station ID: FRHI0037 LAT/LON: 39.782642/ -79.905865 Agency: 11NPSWRD Date Created: 09/27/97
Location: GEORGE'S CREEK UPSTREAM FROM STATE HIGHWAY 166 FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_CSU_GEOCR
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS OUTSIDE OF THE NPS FRIENDSHIP HILL NATIONAL HISTORIC SITE ON GEORGE'S CREEK UPSTREAM FROM THE STATE HIGHWAY 166 BRIDGE. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	51.7	51.7	51.7	51.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	18.8	18.8	18.8	18.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	15.4	15.4	15.4	15.4	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	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: FRHI0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									

& - 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: FRHI0038

NPS Station ID: FRHI0038
LAT/LON: 39.753754/ -79.907226
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 88.1
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4GRP11804
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 088.10
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 88.1 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 7, 3.1 MILES UPSTREAM OF LOCK AND DAM NO. 7, OPPOSITE CROW FERRY LIGHT AND DAYMARK AT 0.25 POINT LEFT BANK - MASONTOWN PA QUAD - SAMPLED BY U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA

Parameter Inventory for Station: FRHI0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	64	24.9	24.083	27.6	17.5	5.959	2.441	20.8	22.825	25.575	26.4
00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	2	55.	55.	100.	10.	4050.	63.64	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	2	81.	81.	96.	66.	450.	21.213	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	64	261.5	278.297	475.	187.	4581.196	67.685	220.	230.25	318.	354.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	64	7.3	7.78	11.	6.3	1.294	1.137	6.8	7.125	8.3	8.95
00400	PH (STANDARD UNITS)	06/04/75-07/30/91	56	6.	5.95	6.9	4.95	0.309	0.556	5.	5.672	6.425	6.695
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-07/30/91	56	6.	5.614	6.9	4.95	0.423	0.651	5.	5.672	6.425	6.695
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-07/30/91	56	1.	2.43	11.22	0.126	10.023	3.166	0.204	0.377	2.126	10.

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

EPA Water Quality Criteria Analysis for Station: FRHI0038

				Total	Exceed	Prop.	7/01-10/31			11/01-3/14			3/15-6/30			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.	64	0	0.00	48	0	0.00				16	0	0.00			
00400	PH	Other-Hi Lim.	9.	56	0	0.00	48	0	0.00				8	0	0.00			
		Other-Lo Lim.	6.5	56	48	0.86	48	44	0.92				8	4	0.50			

& - 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: 7/01 to 10/31 - Station FRHI0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	48	25.25	25.265	27.6	23.8	1.192	1.092	23.9	24.3	25.6	27.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	48	276.	291.875	475.	187.	5281.559	72.674	217.3	235.	336.75	367.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	48	7.3	7.271	8.9	6.3	0.292	0.541	6.4	7.025	7.4	7.85
00400	PH (STANDARD UNITS)	06/04/75-07/30/91	48	6.	5.946	6.8	5.	0.235	0.485	5.27	5.68	6.335	6.51
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-07/30/91	48	6.	5.668	6.8	5.	0.314	0.56	5.27	5.68	6.335	6.51
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-07/30/91	48	1.	2.146	10.	0.158	7.633	2.763	0.31	0.462	2.089	5.511

** - 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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	16	20.95	20.538	22.5	17.5	3.414	1.848	17.57	18.825	22.5	22.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	16	235.	237.563	273.	215.	332.263	18.228	218.5	220.5	247.75	272.3
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	16	8.85	9.306	11.	8.3	1.203	1.097	8.3	8.3	10.8	10.86
00400	PH (STANDARD UNITS)	06/04/75-07/30/91	8	6.05	5.975	6.9	4.95	0.844	0.919	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-07/30/91	8	5.588	5.384	6.9	4.95	1.244	1.115	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-07/30/91	8	2.585	4.133	11.22	0.126	23.635	4.862	**	**	**	**

** - 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: FRHI0039

NPS Station ID: FRHI0039 | LAT/LON: 39.754449/ -79.907782 | Agency: 11COEHUN | Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 88.1 | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 4GRP11004
RMI-Indexes: 1021500 007720 21680 | Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 088.10
HUC: 05020004 | Depth of Water: 50 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020004 | RF1 Mile Point: 0.000 | Distance from RF1: 25.00 | On/Off RF1:
RF3 Index: 05020004025200.00 | RF3 Mile Point: 0.15 | Distance from RF3: 0.17 | On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 88.1 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 7, 3.1 MILES UPSTREAM OF LOCK AND DAM NO. 7, OPPOSITE CROW FERRY LIGHT AND DAYMARK AT MID-CHANNEL - MASONTOWN PA QUAD - SAMPLED BY U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA

Parameter Inventory for Station: FRHI0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	72	24.5	24.125	27.6	18.5	4.931	2.221	21.16	23.125	25.55	26.4
00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	2	55.	55.	100.	10.	4050.	63.64	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	2	84.	84.	108.	60.	1152.	33.941	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	72	264.	280.	500.	176.	5259.239	72.521	196.4	233.	318.	345.8
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	72	7.5	7.797	10.8	6.4	1.064	1.031	6.8	7.1	8.3	8.97
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	64	5.95	5.984	7.05	4.8	0.346	0.588	5.15	5.7	6.418	6.805
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	64	5.947	5.612	7.05	4.8	0.486	0.697	5.15	5.7	6.418	6.805
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	64	1.129	2.441	15.849	0.089	12.391	3.52	0.157	0.382	1.995	7.126

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

EPA Water Quality Criteria Analysis for Station: FRHI0039

				Total	Exceed	Prop.	7/01-10/31			11/01-3/14			3/15-6/30			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.	72	0	0.00	56	0	0.00				16	0	0.00			
00400	PH	Other-Hi Lim.	9.	64	0	0.00	56	0	0.00				8	0	0.00			
		Other-Lo Lim.	6.5	64	54	0.84	56	50	0.89				8	4	0.50			

& - 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: 7/01 to 10/31 - Station FRHI0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	56	24.9	25.082	27.6	22.9	1.459	1.208	23.87	24.	25.775	27.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	56	284.5	290.714	500.	176.	6160.462	78.489	192.7	239.25	330.75	378.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	56	7.3	7.368	8.5	6.4	0.263	0.512	6.77	7.	7.7	8.2
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	56	5.95	5.981	7.05	4.8	0.309	0.556	5.21	5.703	6.393	6.825
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	56	5.947	5.628	7.05	4.8	0.436	0.66	5.21	5.703	6.392	6.825
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	56	1.129	2.354	15.849	0.089	12.792	3.577	0.15	0.405	1.984	6.508

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	16	21.3	20.775	22.5	18.5	2.602	1.613	18.5	18.625	22.375	22.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	16	234.	242.5	273.	220.	376.8	19.411	223.5	225.	264.25	272.3
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	16	8.9	9.3	10.8	8.4	0.975	0.987	8.4	8.4	10.6	10.8
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	8	6.025	6.006	6.8	5.1	0.682	0.826	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	8	5.632	5.516	6.8	5.1	0.957	0.978	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	8	2.333	3.051	7.943	0.158	10.519	3.243	**	**	**	**

** - 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 box-and-whisker plot

Station Inventory for Station: FRHI0040

NPS Station ID: FRHI0040
LAT/LON: 39.754865/ -79.908338
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 88.1
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4GRP11704
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 088.10
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020004000100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 88.1 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 7, 3.1 MILES UPSTREAM OF LOCK AND DAM NO. 7, OPPOSITE CROW FERRY LIGHT AND DAYMARK AT 0.25 POINT RIGHT BANK - MASONTOWN PA QUAD - SAMPLED BY U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA

Parameter Inventory for Station: FRHI0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	67	24.8	23.96	26.4	18.7	4.505	2.122	20.86	22.5	25.4	26.
00032	CLOUD COVER (PERCENT)	06/21/78-06/26/79	2	55.	55.	100.	10.	4050.	63.64	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/26/79	2	87.	87.	108.	66.	882.	29.698	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	67	232.	272.104	475.	184.	6173.489	78.572	201.2	216.	331.	373.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	67	7.3	7.924	11.	6.7	1.321	1.149	6.8	7.1	8.6	10.1
00400	PH (STANDARD UNITS)	06/04/75-07/30/91	58	6.29	6.068	7.6	5.	0.398	0.631	5.19	5.4	6.5	6.82
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-07/30/91	58	6.29	5.67	7.6	5.	0.559	0.748	5.19	5.4	6.5	6.82
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-07/30/91	58	0.513	2.139	10.	0.025	8.126	2.851	0.153	0.316	3.981	6.473

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

EPA Water Quality Criteria Analysis for Station: FRHI0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	67	0	0.00	50	0	0.00				17	0	0.00			
00400	PH	Other-Hi Lim.	9.	58	0	0.00	50	0	0.00				8	0	0.00			
		Other-Lo Lim.	6.5	58	47	0.81	50	43	0.86				8	4	0.50			

& - 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: 7/01 to 10/31 - Station FRHI0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	50	25.15	25.026	26.4	23.8	0.704	0.839	23.9	24.2	25.6	26.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	50	269.5	287.5	475.	184.	7315.194	85.529	189.1	216.	333.	465.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	50	7.3	7.508	10.3	6.7	0.869	0.932	6.8	7.1	7.425	9.78
00400	PH (STANDARD UNITS)	06/04/75-07/30/91	50	6.29	6.078	7.6	5.	0.377	0.614	5.12	5.7	6.44	6.96
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-07/30/91	50	6.29	5.689	7.6	5.	0.531	0.729	5.12	5.7	6.44	6.96
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-07/30/91	50	0.513	2.045	10.	0.025	8.244	2.871	0.115	0.363	1.995	7.65

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-07/30/91	17	21.	20.824	22.5	18.7	2.422	1.556	18.7	18.7	22.5	22.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-07/30/91	17	230.	226.824	239.	190.	143.654	11.986	201.2	228.	232.	237.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-07/30/91	17	8.9	9.147	11.	8.4	0.659	0.812	8.4	8.4	10.1	10.28
00400	PH (STANDARD UNITS)	06/04/75-07/30/91	8	6.05	6.006	6.8	5.2	0.596	0.772	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-07/30/91	8	5.68	5.564	6.8	5.2	0.819	0.905	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-07/30/91	8	2.09	2.728	6.31	0.158	8.004	2.829	**	**	**	**

** - Less than 9 observations ## - Computed 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: FRHI0041

NPS Station ID: FRHI0041
LAT/LON: 39.728198/ -79.910837
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 90.7
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4PMP11201
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 090.70
HUC: 05020003
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020003
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020003007000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 90.7 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 7, 0.1 MILE DOWNSTREAM OF LOCK AND DAM NO. 8 AT MID-CHANNEL - MORGANTOWN NORTH, W.VA. -PA. QUAD SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	67	25.6	25.255	28.	18.9	5.669	2.381	22.5	24.4	26.9	28.
00032	CLOUD COVER (PERCENT)	06/03/75-06/26/79	5	100.	72.	100.	10.	1670.	40.866	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	15	4.1	7.28	50.	0.6	143.196	11.966	1.5	3.1	5.8	24.86
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/75-06/26/79	6	60.	57.667	72.	34.	272.667	16.513	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	15	15.	13.467	25.	3.	45.267	6.728	4.2	8.	20.	22.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	67	398.	408.597	741.	200.	16865.578	129.868	248.	299.	423.	600.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/90-07/30/91	2	541.5	541.5	740.	343.	78804.5	280.721	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	67	8.	7.912	9.8	5.9	1.281	1.132	6.	7.2	8.6	9.6
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	59	6.62	6.695	7.3	5.85	0.134	0.366	6.1	6.6	6.9	7.2
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	59	6.62	6.538	7.3	5.85	0.159	0.398	6.1	6.6	6.9	7.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	59	0.24	0.29	1.413	0.05	0.084	0.29	0.063	0.126	0.251	0.794
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	15	7.	6.88	7.3	6.4	0.07	0.265	6.46	6.6	7.1	7.24
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	15	7.	6.802	7.3	6.4	0.077	0.277	6.46	6.6	7.1	7.24
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	15	0.1	0.158	0.398	0.05	0.01	0.102	0.058	0.079	0.251	0.349
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	15	22.	21.4	37.	7.	67.4	8.21	7.6	14.	27.	32.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	15	5.	4.867	8.	2.	2.41	1.552	2.6	4.	6.	7.4
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	15	5.	4.867	8.	2.	2.41	1.552	2.6	4.	6.	7.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	16	5.	6.438	32.	2.	50.796	7.127	2.	4.	5.	17.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	12	0.1	0.144	0.5	0.025	0.018	0.132	0.033	0.05	0.2	0.41
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	12	0.2	0.221	0.5	0.05	0.027	0.163	0.05	0.063	0.3	0.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/78-08/25/92	11	0.6	0.55	0.8	0.05	0.056	0.236	0.1	0.3	0.7	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/78-08/25/92	11	0.014	0.017	0.06	0.005	0.	0.016	0.005	0.005	0.02	0.054
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	15	150.	157.333	252.	84.	2592.81	50.92	85.2	114.	186.	246.6
00916	CALCIUM, TOTAL (MG/L AS CA)	07/22/80-08/25/92	11	45.6	44.573	69.1	15.	246.23	15.692	17.02	32.2	56.	66.48
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/80-08/25/92	11	10.4	10.991	19.2	5.6	15.753	3.969	5.68	7.8	14.	18.16
00929	SODIUM, TOTAL (MG/L AS NA)	07/22/80-08/25/92	11	20.	21.925	55.9	1.58	186.992	13.674	4.064	16.	22.3	51.58
00937	POTASSIUM, TOTAL MG/L AS K)	07/22/80-08/25/92	9 ##	5.	4.367	10.8	0.5	9.41	3.068	0.5	1.5	5.	10.8
00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/25/92	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/78-08/25/92	12	152.	164.417	283.	92.	3705.902	60.876	95.	107.75	214.75	269.2
01002	ARSENIC, TOTAL (UG/L AS AS)	08/16/89-07/30/91	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/23/83-08/25/92	10	50.	48.5	58.	35.	53.389	7.307	35.5	43.75	54.25	58.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/23/83-08/25/92	10 ##	5.	3.65	5.	0.5	4.725	2.174	0.5	0.5	5.	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

Parameter Inventory for Station: FRHI0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	07/22/80-07/30/91	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/22/80-08/25/92	9 ##	0.5	3.389	20.	0.5	43.424	6.59	0.5	0.5	3.75	20.
01042	COPPER, TOTAL (UG/L AS CU)	07/22/80-08/25/92	9	13.	14.	29.	2.5	80.688	8.983	2.5	5.75	21.	29.
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	15	454.	571.467	1589.	50.	180752.552	425.15	174.8	300.	730.	1463.6
01051	LEAD, TOTAL (UG/L AS PB)	07/22/80-07/30/91	8 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	15	180.	212.	337.	70.	8594.429	92.706	77.8	135.	310.	326.8
01067	NICKEL, TOTAL (UG/L AS NI)	07/22/80-08/25/92	9 ##	2.5	7.944	48.	2.5	226.965	15.065	2.5	2.5	4.25	48.
01092	ZINC, TOTAL (UG/L AS ZN)	07/22/80-08/25/92	11 ##	25.	27.818	56.	25.	87.364	9.347	25.	25.	25.	49.8
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/23/83-08/25/92	8 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/22/80-08/25/92	11	180.	191.182	320.	78.	5038.364	70.981	84.2	160.	210.	316.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/16/89-07/30/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	5	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: FRHI0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	15	1	0.07	12	0	0.00				3	1	0.33			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	67	0	0.00	54	0	0.00				13	0	0.00			
00400	PH	Other-Hi Lim.	9.	59	0	0.00	52	0	0.00				7	0	0.00			
		Other-Lo Lim.	6.5	59	13	0.22	52	13	0.25				7	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	15	0	0.00	12	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	15	2	0.13	12	2	0.17				3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	9	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	12	1	0.08	10	1	0.10				2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	10	0	0.00	10	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	10	0	0.00	10	0	0.00									
		Drinking Water	4.	3 &	0	0.00	3	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	8	0	0.00									
		Drinking Water	5.	8	0	0.00	8	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00	9	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	9	4	0.44	9	4	0.44									
		Drinking Water	1300.	9	0	0.00	9	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	8	0	0.00									
		Drinking Water	15.	8	0	0.00	8	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	9	0	0.00									
		Drinking Water	100.	9	0	0.00	9	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	11	0	0.00	11	0	0.00									
		Drinking Water	5000.	11	0	0.00	11	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	8	0	0.00									
		Drinking Water	6.	0 &	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									

& - 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: 7/01 to 10/31 - Station FRHI0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	54	26.5	26.189	28.	24.4	1.526	1.235	24.55	24.7	27.1	28.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	12	3.8	4.175	8.1	0.6	4.184	2.045	1.05	3.025	5.375	7.71
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	12	10.	12.25	25.	3.	48.023	6.93	3.6	5.75	19.	23.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	54	398.	420.148	741.	200.	17990.959	134.13	290.5	301.	423.	600.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	54	7.7	7.533	8.9	5.9	0.814	0.902	6.	7.	8.2	8.6
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	52	6.6	6.685	7.3	5.85	0.149	0.386	6.1	6.525	7.123	7.221
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	52	6.6	6.515	7.3	5.85	0.178	0.422	6.1	6.525	7.122	7.221
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	52	0.251	0.305	1.413	0.05	0.093	0.306	0.06	0.075	0.3	0.794
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	12	7.	6.917	7.3	6.4	0.08	0.282	6.43	6.65	7.1	7.27
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	12	7.	6.825	7.3	6.4	0.089	0.298	6.43	6.65	7.1	7.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	12	0.1	0.15	0.398	0.05	0.012	0.112	0.054	0.079	0.228	0.374
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	12	22.5	21.833	37.	7.	79.97	8.943	7.3	14.25	28.5	34.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	12	4.5	4.75	7.	2.	1.841	1.357	2.6	4.	6.	6.7
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	12	4.5	4.75	7.	2.	1.841	1.357	2.6	4.	6.	6.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	13	5.	4.769	11.	2.	4.359	2.088	2.4	4.	5.	8.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	10	0.15	0.16	0.5	0.05	0.019	0.139	0.05	0.05	0.2	0.47
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	10	0.25	0.235	0.5	0.05	0.031	0.175	0.05	0.05	0.35	0.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/78-08/25/92	9	0.6	0.572	0.8	0.05	0.061	0.246	0.05	0.45	0.75	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/78-08/25/92	9	0.011	0.017	0.06	0.005	0.	0.018	0.005	0.005	0.023	0.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	12	150.	159.667	252.	86.	2623.697	51.222	91.4	117.5	184.25	249.3
00916	CALCIUM, TOTAL (MG/L AS CA)	07/22/80-08/25/92	11	45.6	44.573	69.1	15.	246.23	15.692	17.02	32.2	56.	66.48
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/22/80-08/25/92	11	10.4	10.991	19.2	5.6	15.753	3.969	5.68	7.8	14.	18.16
00929	SODIUM, TOTAL (MG/L AS NA)	07/22/80-08/25/92	11	20.	21.925	55.9	1.58	186.992	13.674	4.064	16.	22.3	51.58
00937	POTASSIUM, TOTAL MG/L AS K)	07/22/80-08/25/92	9 ##	5.	4.367	10.8	0.5	9.41	3.068	0.5	1.5	5.	10.8
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/78-08/25/92	10	140.	152.2	283.	92.	3505.067	59.204	93.	104.25	182.75	276.2
01007	BARIUM, TOTAL (UG/L AS BA)	08/23/83-08/25/92	10	50.	48.5	58.	35.	53.389	7.307	35.5	43.75	54.25	58.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/23/83-08/25/92	10 ##	5.	3.65	5.	0.5	4.725	2.174	0.5	0.5	5.	5.
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/22/80-08/25/92	9 ##	0.5	3.389	20.	0.5	43.424	6.59	0.5	0.5	3.75	20.
01042	COPPER, TOTAL (UG/L AS CU)	07/22/80-08/25/92	9	13.	14.	29.	2.5	80.688	8.983	2.5	5.75	21.	29.
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	12	318.	469.25	1589.	50.	150812.75	388.346	112.4	295.5	575.	1307.3
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	12	173.5	187.583	320.	70.	7581.72	87.073	73.9	127.5	290.	317.
01067	NICKEL, TOTAL (UG/L AS NI)	07/22/80-08/25/92	9 ##	2.5	7.944	48.	2.5	226.965	15.065	2.5	2.5	4.25	48.
01092	ZINC, TOTAL (UG/L AS ZN)	07/22/80-08/25/92	11 ##	25.	27.818	56.	25.	87.364	9.347	25.	25.	25.	49.8
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/22/80-08/25/92	11	180.	191.182	320.	78.	5038.364	70.981	84.2	160.	210.	316.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	13	22.5	21.377	23.8	18.9	4.227	2.056	18.9	18.9	23.15	23.56
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	3	5.8	19.7	50.	3.3	690.13	26.27	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	3	20.	18.333	20.	15.	8.333	2.887	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	13	378.	360.615	486.	248.	10206.09	101.025	248.	248.	477.5	484.4
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	13	9.6	9.485	9.8	8.9	0.125	0.353	8.94	9.05	9.8	9.8
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	7	6.8	6.774	6.9	6.6	0.015	0.121	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	7	6.8	6.759	6.9	6.6	0.015	0.122	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	7	0.158	0.174	0.251	0.126	0.003	0.051	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	3	6.8	6.733	6.8	6.6	0.013	0.115	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	3	6.8	6.723	6.8	6.6	0.014	0.116	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	3	0.158	0.189	0.251	0.158	0.003	0.054	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	3	21.	19.667	24.	14.	26.333	5.132	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	3	5.	5.333	8.	3.	6.333	2.517	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	3	5.	5.333	8.	3.	6.333	2.517	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	3	7.	13.667	32.	2.	258.333	16.073	**	**	**	**

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	2 ##	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/78-08/25/92	2	0.45	0.45	0.6	0.3	0.045	0.212	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/78-08/25/92	2	0.018	0.018	0.02	0.015	0.	0.004	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	3	158.	148.	202.	84.	3556.	59.632	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/78-08/25/92	2	225.5	225.5	237.	214.	264.5	16.263	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	3	831.	980.333	1380.	730.	122350.333	349.786	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	3	300.	309.667	337.	292.	576.333	24.007	**	**	**	**

** - 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

Station Inventory for Station: FRHI0042

NPS Station ID: FRHI0042 | LAT/LON: 39.776392/ -79.911115 | Agency: 11NPSWRD | Date Created: 10/25/97
Location: PAFA502R | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): FRHI_NURE_07 /4070634
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THE MONITORING STATION IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING OUTSIDE FRIENDSHIP HILL NATIONAL HISTORIC SITE (NPS). SAMPLES WERE FILTERED THROUGH A 0.8 UM FILTER AT THE SITE. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATABASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATABASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER LABORATORY. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/22/77-08/22/77	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/22/77-08/22/77	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/22/77-08/22/77	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/77-08/22/77	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/22/77-08/22/77	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/22/77-08/22/77	1	3290.	3290.	3290.	3290.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	1	13260.	13260.	13260.	13260.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/77-08/22/77	1	79.	79.	79.	79.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	1	-0.1	-0.1	-0.1	-0.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	1	121.	121.	121.	121.	0.	0.	**	**	**	**
50700	INVALID PARAMETER	08/22/77-08/22/77	1	31.	31.	31.	31.	0.	0.	**	**	**	**
50760	INVALID PARAMETER	08/22/77-08/22/77	1	9100.	9100.	9100.	9100.	0.	0.	**	**	**	**
50761	INVALID PARAMETER	08/22/77-08/22/77	1	61.	61.	61.	61.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	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: FRHI0042

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									

& - 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: FRHI0043

NPS Station ID: FRHI0043 LAT/LON: 39.732504/ -79.911670 Agency: 112WRD Date Created: / /
Location: MONONGAHELA R AT LOCK & DAM 8, AT PNT MARION, PA FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03063000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020003 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020003001 RF1 Mile Point: 0.690 Distance from RF1: 10.50 On/Off RF1: ON
RF3 Index: 05020005065300.00 RF3 Mile Point: 1.46 Distance from RF3: 0.20 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	163	13.5	13.92	27.8	0.	76.794	8.763	2.7	6.	23.	25.56
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/18/69-04/18/73	28	18.5	15.732	31.	-2.	111.639	10.566	1.9	-1.25	24.875	28.
00060	FLOW, STREAM, MEAN DAILY CFS	03/27/69-03/27/69	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/17/70-08/27/76	17	5.	16.529	68.	2.9	401.422	20.036	2.98	3.3	31.	53.6
00080	COLOR (PLATINUM-COBALT UNITS)	10/01/57-06/25/73	4	1.	1.25	3.	0.	2.25	1.5	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	216	412.	466.583	1360.	106.	64777.091	254.513	187.8	257.	619.	878.3
00300	OXYGEN, DISSOLVED MG/L	07/31/69-05/28/76	42	9.2	9.567	13.9	4.8	5.38	2.319	7.	7.775	11.05	13.35
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/31/69-07/31/69	1	83.	83.	83.	83.	0.	0.	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/31/69-12/19/73	5	0.4	0.52	1.	0.2	0.092	0.303	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	209	4.1	4.615	7.7	3.2	1.244	1.115	3.5	3.8	5.4	6.4
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	209	4.1	3.939	7.7	3.2	1.704	1.305	3.5	3.8	5.4	6.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	209	79.433	115.104	630.957	0.02	18732.777	136.868	0.398	3.981	158.489	316.228
00405	CARBON DIOXIDE (MG/L AS CO2)	10/24/72-12/19/73	9	5.1	10.156	32.	0.6	143.383	11.974	0.6	3.2	18.3	32.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/67-08/27/76	51	2.	7.608	95.	0.	220.283	14.842	0.	0.	12.	21.6
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/31/69-12/19/73	31	9.	13.839	62.	1.	218.006	14.765	2.4	5.	15.	39.
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	11/01/75-06/30/76	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/18/69-08/27/76	32	6.5	11.281	50.	0.	210.015	14.492	0.	0.	14.25	38.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	103	0.	3.223	116.	0.	168.665	12.987	0.	0.	2.	7.6
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	79	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	03/08/72-02/27/76	5	185.	185.	215.	150.	562.5	23.717	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/08/72-03/12/73	3	16.	16.333	30.	3.	182.333	13.503	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/16/70-12/19/73	7	0.25	0.277	0.42	0.23	0.004	0.066	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	09/24/69-06/25/73	8	0.205	0.233	0.53	0.08	0.023	0.152	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/18/72-08/27/76	14	0.249	0.235	0.47	0.02	0.016	0.127	0.06	0.128	0.335	0.435
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/25/73-06/25/73	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/14/76-08/27/76	8	0.029	0.027	0.042	0.01	0.	0.012	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/25/73-06/25/73	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	12/18/72-08/27/76	11	0.87	0.772	1.319	0.13	0.147	0.383	0.158	0.43	1.019	1.291
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/24/69-12/19/73	9	0.38	0.488	0.81	0.26	0.038	0.194	0.26	0.345	0.685	0.81
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/25/73-06/25/73	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/09/60-06/16/70	52	0.08	0.121	0.49	0.	0.014	0.12	0.	0.043	0.18	0.32
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/69-06/25/73	3	0.	0.05	0.15	0.	0.008	0.087	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/70-08/27/76	14	0.09	0.687	8.5	0.03	5.058	2.249	0.032	0.055	0.123	4.35
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/19/70-06/16/70	2	0.035	0.035	0.06	0.01	0.001	0.035	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/25/73-06/25/73	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/18/69-12/19/73	29	3.	3.31	7.5	0.	3.043	1.744	1.	2.	4.5	5.5
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	09/26/73-09/26/73	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

Parameter Inventory for Station: FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	09/26/73-05/28/76	5	0.01	0.014	0.02	0.01	0.	0.005	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	168	134.	148.494	385.	35.	5963.689	77.225	61.9	84.25	192.	268.3
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	103	136.	151.456	385.	0.	6426.721	80.167	58.8	94.	196.	273.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/57-08/27/76	41	30.	32.649	64.	14.	159.902	12.645	17.	23.	39.5	52.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/57-08/27/76	41	8.6	9.488	27.5	4.	20.835	4.564	4.8	6.	11.	15.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/57-06/25/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/27/69-06/25/73	2	1.	1.	1.1	0.9	0.02	0.141	**	**	**	**
00932	SODIUM, PERCENT	03/27/69-06/25/73	2	28.5	28.5	32.	25.	24.5	4.95	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	03/27/69-03/12/73	3	19.	21.	31.	13.	84.	9.165	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/57-06/25/73	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	154	6.5	6.838	16.	2.	9.274	3.045	3.	4.	9.	11.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	170	167.5	190.365	574.	20.	13411.121	115.806	62.	100.75	261.25	367.9
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	123	0.2	0.241	1.6	0.	0.038	0.195	0.	0.1	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/01/57-06/25/73	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/26/73-09/26/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/26/73-12/19/73	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/76-07/27/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/19/73-12/19/73	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/26/73-09/26/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/76-07/27/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/26/73-12/19/73	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/27/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/01/57-08/27/76	14	775.	1151.429	3300.	320.	932982.418	965.91	390.	502.5	1337.5	3085.
01046	IRON, DISSOLVED (UG/L AS FE)	12/18/72-12/19/73	3	580.	600.	770.	450.	25900.	160.935	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/26/73-12/19/73	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/27/76	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/57-07/27/76	96	770.	901.354	3800.	10.	399138.147	631.774	214.	437.5	1275.	1800.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/18/72-12/19/73	4	395.	504.5	950.	278.	91267.667	302.105	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/26/73-09/26/73	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/27/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	03/08/72-03/08/72	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/26/73-12/19/73	2	80.	80.	100.	60.	800.	28.284	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/27/76	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/01/57-07/27/76	1	1990.	1990.	1990.	1990.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/26/73-12/19/73	2 ##	125.	125.	200.	50.	11250.	106.066	**	**	**	**
01501	ALPHA, TOTAL	04/29/76-05/28/76	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	03/08/72-03/08/72	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	03/08/72-03/08/72	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
03501	BETA, TOTAL	04/29/76-05/28/76	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	03/08/72-03/08/72	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	03/08/72-03/08/72	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	07/31/69-12/19/73	36	92.5	274.972	1500.	0.	132206.828	363.603	7.9	26.5	415.	818.
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	07/31/69-12/19/73	36	1.961	1.932	3.176	0.	0.687	0.829	0.843	1.423	2.618	2.908
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			85.597								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/24/69-12/19/73	28	16.	80.143	650.	0.	25444.72	159.514	0.	3.	71.25	323.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/24/69-12/19/73	28	1.171	1.185	2.813	0.	0.739	0.86	0.	0.477	1.851	2.502
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			15.327								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/01/62-05/28/76	44	3800.	3634.636	6100.	0.	1780573.493	1334.381	1607.	3400.	4100.	5100.
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10/09/60-11/01/75	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
70299	SOLIDS, SUSP. - RESIDUE ON EVAP. AT 180 C (MG/L)	09/26/73-12/19/73	4	4.5	139.	544.	3.	72900.667	270.001	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	100	275.	313.65	822.	69.	31307.26	176.939	115.2	162.5	424.5	568.9
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/25/73-06/25/73	1	323.	323.	323.	323.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/25/67-03/27/69	6	0.95	1440.792	8640.	0.95	12438864.15	3526.877	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/25/67-12/19/73	38	0.275	0.314	0.71	0.11	0.028	0.166	0.11	0.188	0.458	0.572
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/18/72-12/19/73	4	0.021	2.112	8.4	0.007	17.573	4.192	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	10/01/57-12/19/73	86	0.6	0.785	2.8	0.02	0.413	0.643	0.1	0.3	1.025	1.83
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	06/25/73-06/25/73	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	06/25/73-06/25/73	1	0.33	0.33	0.33	0.33	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	145	2.2	2.443	7.7	0.1	3.209	1.791	0.5	1.05	3.5	5.12
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	06/25/73-06/25/73	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71883	MANGANESE, TOTAL ELEMENTAL (UG/L AS MN)	10/04/69-09/25/70	36	875.	975.833	2800.	80.	408567.857	639.193	307.	462.5	1375.	1960.
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	128	990.	1691.153	12000.1	30.	3483698.143	1866.467	208.	480.	2275.01	4200.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	10/04/68-09/25/70	69	0.03	0.145	5.6	0.	0.461	0.679	0.	0.	0.07	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

Parameter Inventory for Station: FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71888	PHOSPHORUS, TOTAL SOLUBLE AS PO4 - MG/L	01/19/70-06/16/70	3	0.17	0.213	0.44	0.03	0.043	0.208	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	03/08/72-03/08/72	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	03/08/72-03/08/72	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	03/08/72-03/08/72	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	03/08/72-03/08/72	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	17	2	0.12	4	0	0.00	8	2	0.25	5	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	42	0	0.00	15	0	0.00	15	0	0.00	12	0	0.00			
00400	PH	Other-Hi Lim.	9.	209	0	0.00	63	0	0.00	72	0	0.00	74	0	0.00			
		Other-Lo Lim.	6.5	209	193	0.92	63	61	0.97	72	63	0.88	74	69	0.93			
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.	8	0	0.00	2	0	0.00	2	0	0.00	4	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	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.	1	0	0.00							1	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	0.2	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	154	0	0.00	44	0	0.00	51	0	0.00	59	0	0.00			
		Drinking Water	250.	154	0	0.00	44	0	0.00	51	0	0.00	59	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	170	47	0.28	50	25	0.50	56	3	0.05	64	19	0.30			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	123	0	0.00	36	0	0.00	37	0	0.00	50	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	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	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						
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
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.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	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.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	0 &	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									
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.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	36	3	0.08	14	1	0.07	12	2	0.17	10	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	28	3	0.11	11	2	0.18	8	1	0.13	9	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	145	0	0.00	43	0	0.00	45	0	0.00	57	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	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

Annual Analysis for 1962 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	8	497.5	462.875	892.	106.	89183.554	298.636	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	8	3.9	4.125	5.4	3.2	0.651	0.807	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	8	3.804	3.69	5.4	3.2	0.867	0.931	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	8	157.142	204.205	630.957	3.981	50559.916	224.855	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	5	0.	1.2	4.	0.	3.2	1.789	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	5	141.	135.	244.	35.	8588.5	92.674	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	5	141.	134.2	244.	32.	8783.2	93.719	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	5	8.	6.6	11.	2.	15.3	3.912	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	5	192.	175.4	376.	37.	19221.8	138.643	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	5	0.	0.1	0.4	0.	0.03	0.173	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	5	302.	269.4	532.	69.	34940.8	186.925	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	5	1.5	1.4	2.1	0.8	0.265	0.515	**	**	**	**
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	3	2200.01	2566.673	4400.	1100.01	2823315.	1680.272	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	18	415.5	460.222	1140.	128.	86277.007	293.729	156.8	252.75	580.5	1014.
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	18	3.85	3.983	5.2	3.4	0.274	0.524	3.4	3.575	4.2	5.02
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	18	3.847	3.778	5.2	3.4	0.319	0.565	3.4	3.575	4.2	5.02
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	18	142.191	166.725	398.107	6.31	17881.786	133.723	9.631	67.48	267.448	398.107
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	12	0.	0.5	4.	0.	1.545	1.243	0.	0.	0.	3.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	12	104.5	125.833	376.	44.	9065.788	95.214	46.7	55.	146.	329.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	12	104.5	125.417	376.	41.	9137.538	95.59	44.3	54.25	146.	329.5
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	12	4.	4.	8.	2.	3.273	1.809	2.	2.25	5.	7.4
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	12	132.5	162.	508.	45.	18353.091	135.474	48.6	58.	184.25	452.8
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	12	0.2	0.242	0.6	0.	0.03	0.173	0.	0.125	0.375	0.54
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	12	186.5	242.667	746.	86.	37472.061	193.577	87.8	102.25	285.5	659.
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	12	0.65	0.775	1.9	0.1	0.253	0.503	0.13	0.5	1.05	1.75
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	6	3700.005	4683.338	9600.	2500.01	7053644.867	2655.87	**	**	**	**

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

Annual Analysis for 1966 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	20	8.9	13.135	27.8	1.1	97.362	9.867	1.75	4.7	24.125	27.15
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	37	569.	599.676	1120.	148.	80491.336	283.71	226.2	356.5	889.5	1001.6
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	37	3.8	4.065	6.6	3.3	0.683	0.827	3.4	3.6	4.1	5.76
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	37	3.8	3.745	6.6	3.3	0.789	0.888	3.4	3.6	4.1	5.76
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	37	158.489	179.901	501.187	0.251	18784.812	137.058	1.796	79.433	251.189	398.107
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	37	0.	1.865	54.	0.	79.62	8.923	0.	0.	0.	2.2
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	37	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	37	164.	180.297	350.	50.	6825.326	82.616	71.6	107.	259.	290.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	37	164.	178.757	350.	48.	6798.911	82.456	71.4	106.	259.	290.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	37	8.	7.189	14.	2.	8.435	2.904	3.	4.5	10.	10.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	37	208.	243.	474.	55.	15937.111	126.242	87.6	134.	365.	426.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	37	0.3	0.27	0.5	0.	0.025	0.158	0.08	0.1	0.4	0.5
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	37	344.	371.243	716.	102.	33896.3	184.109	144.4	203.	557.	645.6
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	37	1.9	2.114	7.7	0.1	2.912	1.707	0.28	0.8	2.9	4.52
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	36	665.	1234.448	4800.	30.	1483964.646	1218.181	165.	380.	1750.01	3490.01

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Annual Analysis for 1967 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	13	18.3	19.323	26.1	10.6	38.784	6.228	10.8	13.35	25.6	25.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	14	571.	655.5	1360.	175.	124201.192	352.422	223.	372.5	915.75	1225.
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	13	3.8	3.962	6.1	3.2	0.764	0.874	3.2	3.3	4.1	5.82
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	13	3.8	3.58	6.1	3.2	0.922	0.96	3.2	3.3	4.1	5.82
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	13	158.489	262.99	630.957	0.794	54767.903	234.025	2.069	79.433	501.187	630.957
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	13	0.	0.462	4.	0.	1.436	1.198	0.	0.	0.	3.2
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	13	142.	179.154	385.	63.	8564.308	92.544	79.4	111.5	247.5	349.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	13	142.	178.846	385.	62.	8621.974	92.855	77.6	111.5	247.5	349.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	13	3.	4.462	10.	2.	6.603	2.57	2.	2.5	6.5	9.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	13	218.	253.077	574.	68.	21873.577	147.897	85.6	143.	357.	519.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	13	0.3	0.3	0.6	0.1	0.025	0.158	0.1	0.2	0.45	0.56
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	13	316.	385.	822.	115.	43993.333	209.746	130.6	241.	558.	750.
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	13	1.6	1.585	3.	0.6	0.865	0.93	0.6	0.6	2.5	2.88
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	13	1800.01	2220.775	4600.	610.	1534173.749	1238.618	726.	1280.005	2750.01	4520.

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Annual Analysis for 1968 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	8	8.5	9.625	19.	3.	37.696	6.14	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	9	616.	549.111	928.	215.	71065.611	266.581	215.	273.5	795.5	928.
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	9	3.8	4.056	5.9	3.4	0.565	0.752	3.4	3.6	4.25	5.9
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	9	3.8	3.786	5.9	3.4	0.647	0.804	3.4	3.6	4.25	5.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	9	158.489	163.664	398.107	1.259	15629.078	125.016	1.259	56.607	251.189	398.107
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	9	176.	167.333	318.	66.	7469.	86.423	66.	92.	233.	318.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	3	196.	168.	208.	100.	3504.	59.195	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	9	7.	7.333	16.	3.	15.	3.873	3.	4.5	9.	16.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	9	245.	225.889	422.	78.	14162.861	119.008	78.	120.	321.	422.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	9	0.3	0.267	0.5	0.1	0.028	0.166	0.1	0.1	0.4	0.5
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	3	420.	356.667	432.	218.	14457.333	120.239	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	9	1.2	1.3	3.3	0.2	0.96	0.98	0.2	0.6	1.9	3.3
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	8	1900.01	3210.02	12000.1	680.	13381604.687	3658.088	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	43	13.	13.605	26.	1.	74.102	8.608	3.	6.	22.	24.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	43	328.	388.488	1020.	172.	40783.684	201.95	173.4	230.	472.	666.4
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	43	4.5	4.754	7.7	3.5	1.146	1.07	3.8	3.8	5.3	6.26
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	43	4.5	4.136	7.7	3.5	1.537	1.24	3.8	3.8	5.3	6.26
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	43	31.623	73.177	316.228	0.02	6843.858	82.728	0.553	5.012	158.489	158.489
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	14	0.	11.357	116.	0.	964.863	31.062	0.	0.	4.	72.
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	38	105.	126.737	314.	52.	4359.388	66.026	59.8	78.	152.	230.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	15	104.	104.867	210.	0.	2210.552	47.017	36.	78.	136.	175.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	37	6.	6.676	12.	3.	6.781	2.604	3.	5.	8.	11.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	43	129.	149.884	438.	22.	8175.2	90.417	62.	79.	188.	265.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	31	0.2	0.181	0.4	0.	0.015	0.122	0.	0.1	0.3	0.4
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	14	211.	225.643	438.	134.	7322.709	85.573	137.	149.5	273.75	383.

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

Annual Analysis for 1969 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	38	2.7	3.097	7.5	0.3	4.905	2.215	0.49	1.375	5.3	6.92
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	35	890.	1463.146	7000.	30.	3035295.365	1742.21	130.	470.	2000.01	4420.006

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

Annual Analysis for 1970 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	34	15.	14.853	27.5	0.	96.932	9.845	2.25	4.	25.	25.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	41	465.	482.585	919.	129.	43425.649	208.388	228.8	329.5	633.5	819.4
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	41	4.2	4.634	7.4	3.5	1.145	1.07	3.7	3.8	5.4	6.52
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	41	4.2	4.044	7.4	3.5	1.501	1.225	3.7	3.8	5.4	6.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	41	63.096	90.294	316.228	0.04	8376.309	91.522	0.327	4.087	158.489	199.526
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	10	0.	2.3	10.	0.	15.122	3.889	0.	0.	3.75	9.9
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	30	159.	156.	295.	54.	4602.966	67.845	71.1	101.5	207.	258.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	10	157.	146.8	249.	70.	2897.511	53.829	70.3	106.75	173.25	243.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	27	8.	7.852	16.	3.	7.439	2.727	3.8	6.	9.	11.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	34	186.	195.5	400.	40.	9124.561	95.523	84.	117.75	262.75	345.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	12	0.2	0.283	1.6	0.	0.18	0.424	0.03	0.1	0.275	1.21
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	9	316.	291.111	522.	140.	16402.111	128.071	140.	172.	371.	522.
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	30	3.5	3.62	6.3	1.4	1.036	1.018	2.41	3.	4.15	4.87
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	27	730.	1128.409	4200.	69.	1472887.779	1213.626	137.6	320.	1200.01	3560.008

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

Annual Analysis for 1971 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	12	15.	13.833	26.	1.	72.333	8.505	1.3	6.625	19.875	25.55
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	11	245.	366.182	875.	205.	49590.964	222.69	208.2	225.	600.	820.
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	12	4.95	5.008	6.4	3.5	0.781	0.884	3.65	4.5	5.7	6.37
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	12	4.925	4.342	6.4	3.5	1.266	1.125	3.65	4.5	5.7	6.37
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	12	11.896	45.53	316.228	0.398	8043.81	89.687	0.429	2.184	31.623	251.359
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	2	73.5	73.5	85.	62.	264.5	16.263	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	1	75.	75.	75.	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 box-and-whisker plot

Annual Analysis for 1972 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	13	12.5	12.231	24.5	2.	72.734	8.528	2.	3.75	21.75	24.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	13	263.	333.	648.	173.	28864.	169.894	173.4	214.5	467.5	636.8
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	13	6.2	5.588	6.7	3.65	1.195	1.093	3.71	4.65	6.4	6.7
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	13	6.2	4.468	6.7	3.65	2.555	1.598	3.71	4.65	6.4	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	13	0.631	34.038	223.872	0.2	5124.602	71.586	0.2	0.398	23.736	197.719
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	2	4.5	4.5	7.	2.	12.5	3.536	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	7	97.	90.714	130.	55.	651.571	25.526	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	3	105.	94.667	130.	49.	1720.333	41.477	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	2	171.5	171.5	280.	63.	23544.5	153.442	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	1	103.	103.	103.	103.	0.	0.	**	**	**	**

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

Annual Analysis for 1973 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	12	13.5	14.167	27.	1.	92.606	9.623	1.3	4.375	25.125	26.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	12	328.5	372.5	660.	185.	19513.545	139.691	197.6	282.75	497.5	618.
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	11	6.4	6.091	6.9	4.7	0.507	0.712	4.8	5.5	6.7	6.86
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	11	6.4	5.515	6.9	4.7	0.872	0.934	4.8	5.5	6.7	6.86
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	11	0.398	3.055	19.953	0.126	35.008	5.917	0.141	0.2	3.162	17.224
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	7	6.	7.714	18.	1.	35.238	5.936	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	5	129.	136.4	190.	63.	2971.3	54.51	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	5	126.	131.2	189.	58.	2975.7	54.55	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	3	9.	9.667	14.	6.	16.333	4.041	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	4	147.	144.75	230.	55.	5463.583	73.916	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	3	0.2	0.2	0.3	0.1	0.01	0.1	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	6	197.5	235.5	413.	109.	17042.3	130.546	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	1	1.1	1.1	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 box-and-whisker plot

Annual Analysis for 1975 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	2	9.5	9.5	14.	5.	40.5	6.364	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	2	300.	300.	315.	285.	450.	21.213	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	2	117.5	117.5	130.	105.	312.5	17.678	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	2	107.5	107.5	110.	105.	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 box-and-whisker plot

Annual Analysis for 1976 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	6	12.	12.333	19.	5.	31.467	5.61	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	8	327.5	321.25	500.	170.	12062.5	109.829	**	**	**	**
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	3	7.	6.733	7.6	5.6	1.053	1.026	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	3	7.	6.056	7.6	5.6	1.741	1.32	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	3	0.1	0.879	2.512	0.025	2.001	1.415	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	8	137.	132.625	218.	59.	3370.554	58.056	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	8	9.5	9.625	13.	6.	7.411	2.722	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	8	117.5	115.375	194.	20.	3653.982	60.448	**	**	**	**

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Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	55	24.4	22.884	27.8	13.5	12.915	3.594	18.3	20.	25.5	26.34
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	65	539.	617.646	1360.	170.	77744.013	278.826	291.	400.5	880.5	1003.2
00300	OXYGEN, DISSOLVED MG/L	07/31/69-05/28/76	15	7.8	7.947	9.6	6.4	0.941	0.97	6.76	7.	9.	9.36
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	63	3.8	4.198	7.4	3.2	0.9	0.948	3.34	3.5	4.5	5.7
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	63	3.8	3.746	7.4	3.2	1.107	1.052	3.34	3.5	4.5	5.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	63	158.489	179.32	630.957	0.04	28515.967	168.867	1.995	31.623	316.228	459.955
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/67-08/27/76	15	2.	6.067	24.	0.	67.924	8.242	0.	0.	11.	23.4
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	30	0.	2.233	28.	0.	34.944	5.911	0.	0.	0.	9.9
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/09/60-06/16/70	17	0.11	0.126	0.4	0.	0.017	0.132	0.	0.005	0.23	0.352
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	50	193.	197.92	385.	52.	6833.953	82.668	100.	131.5	268.75	308.7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	30	219.	216.8	385.	104.	6476.097	80.474	109.1	136.	279.5	320.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/57-08/27/76	10	32.	31.72	49.	16.8	103.246	10.161	16.92	23.25	38.8	48.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/57-08/27/76	10	8.55	8.49	14.5	4.	9.872	3.142	4.03	6.175	10.25	14.15
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	44	8.	8.25	14.	3.	6.238	2.498	5.	6.	10.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	50	251.	264.64	574.	44.	17156.194	130.982	107.1	158.25	374.25	438.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	36	0.4	0.336	0.6	0.1	0.017	0.131	0.17	0.2	0.4	0.5
01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/57-07/27/76	33	1300.	1301.212	3800.	370.	527854.735	726.536	442.	745.	1800.	2080.
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/01/62-05/28/76	8	3300.	2950.	3700.	0.	1448571.429	1203.566	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	29	478.	456.069	822.	117.	34863.709	186.718	210.	280.	597.5	700.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/25/67-12/19/73	12	0.33	0.355	0.57	0.11	0.021	0.144	0.125	0.275	0.48	0.555
71825	ACIDITY, TOTAL (MG/L AS H)	10/01/57-12/19/73	29	1.1	1.222	2.8	0.05	0.55	0.742	0.2	0.6	1.85	2.
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	43	3.4	3.27	7.5	0.3	4.677	2.163	0.6	1.1	4.9	6.82
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	42	480.	773.74	4600.	69.	708943.458	841.988	173.	320.	795.	1770.01

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

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	60	4.	4.773	14.	0.	9.457	3.075	1.14	2.275	6.075	9.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	74	288.	320.27	928.	106.	21351.899	146.123	173.	220.5	413.5	523.
00300	OXYGEN, DISSOLVED MG/L	07/31/69-05/28/76	15	11.	11.387	13.9	4.8	5.74	2.396	7.68	10.2	13.5	13.9
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	72	4.9	5.103	7.7	3.6	1.216	1.103	3.8	4.1	6.175	6.7
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	72	4.9	4.32	7.7	3.6	1.838	1.356	3.8	4.1	6.175	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	72	12.589	47.897	251.189	0.02	4281.872	65.436	0.2	0.672	79.433	158.489
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/67-08/27/76	20	2.	9.7	95.	0.	438.326	20.936	0.	0.	12.	16.9
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	33	1.	7.091	116.	0.	476.71	21.834	0.	0.	3.5	14.
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/09/60-06/16/70	10	0.065	0.078	0.23	0.02	0.004	0.06	0.02	0.043	0.095	0.218
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	57	88.	107.175	318.	35.	2944.397	54.262	59.	68.5	133.5	180.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	32	86.5	100.063	208.	0.	2660.706	51.582	43.1	61.5	139.25	185.5
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/57-08/27/76	18	27.5	26.111	39.	14.	61.869	7.866	14.	18.5	32.	37.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/57-08/27/76	18	7.35	7.311	13.	4.5	5.53	2.352	4.77	4.875	8.9	10.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	51	6.	7.02	16.	2.	9.1	3.017	3.	5.	8.	11.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	56	109.	125.5	422.	22.	5082.255	71.29	54.1	78.	169.25	214.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	37	0.1	0.132	0.5	0.	0.015	0.123	0.	0.05	0.2	0.32
01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/57-07/27/76	26	535.	584.231	2000.	10.	160401.385	400.501	83.	352.5	795.	951.
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/01/62-05/28/76	14	3950.	3943.857	5400.	14.	1608005.209	1268.071	1807.	3750.	4700.	5200.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	30	175.	204.867	432.	69.	9669.844	98.335	102.1	130.5	279.5	343.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/25/67-12/19/73	13	0.2	0.268	0.59	0.14	0.017	0.13	0.144	0.185	0.325	0.534
71825	ACIDITY, TOTAL (MG/L AS H)	10/01/57-12/19/73	24	0.2	0.295	0.8	0.02	0.042	0.204	0.075	0.1	0.4	0.6
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	45	2.3	2.609	7.7	0.2	2.907	1.705	0.7	1.35	3.5	5.46
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	39	2000.01	2528.983	12000.1	190.	4548770.966	2132.785	790.	1100.01	3400.01	4400.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/05/66-07/27/76	48	13.95	15.081	26.	4.	35.78	5.982	7.	10.7	20.375	24.55
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/57-08/27/76	77	443.	479.675	1140.	148.	56738.38	238.198	187.2	273.	650.5	821.8
00300	OXYGEN, DISSOLVED MG/L	07/31/69-05/28/76	12	9.	9.317	13.	7.2	3.385	1.84	7.2	7.8	11.	12.52
00400	PH (STANDARD UNITS)	10/01/57-04/29/76	74	4.	4.495	7.6	3.2	1.199	1.095	3.5	3.7	5.325	6.3
00400	CONVERTED PH (STANDARD UNITS)	10/01/57-04/29/76	74	4.	3.9	7.6	3.2	1.558	1.248	3.5	3.7	5.325	6.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/57-04/29/76	74	100.	125.823	630.957	0.025	16861.836	129.853	0.515	4.754	199.526	316.228
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/25/67-08/27/76	16	0.	6.438	30.	0.	105.996	10.295	0.	0.	17.	24.4
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/57-12/19/73	40	0.	0.775	10.	0.	4.435	2.106	0.	0.	0.	2.
00445	CARBONATE ION (MG/L AS CO3)	01/05/66-06/25/73	32	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/09/60-06/16/70	25	0.08	0.135	0.49	0.	0.017	0.129	0.018	0.05	0.2	0.36
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/57-08/27/76	61	140.	146.59	376.	50.	4608.446	67.886	59.	97.	191.	243.4
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/57-12/19/73	41	138.	143.756	376.	48.	4254.739	65.228	63.4	99.5	190.5	218.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/57-08/27/76	13	44.	42.415	64.	20.8	199.756	14.134	21.28	29.9	53.5	62.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/57-08/27/76	13	13.	13.269	27.5	5.7	30.782	5.548	6.54	9.5	16.25	23.3
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/57-08/27/76	59	5.	5.627	14.	2.	8.962	2.994	2.	3.	8.	10.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/57-08/27/76	64	179.	189.094	508.	20.	10075.261	100.376	61.5	106.75	261.5	331.5
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/57-09/26/73	50	0.2	0.252	1.6	0.	0.056	0.236	0.1	0.1	0.3	0.4
01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/57-07/27/76	37	750.	767.568	2300.	110.	235096.697	484.868	128.	370.	980.	1420.
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/01/62-05/28/76	22	3900.	3686.818	6100.	5.	1922487.013	1386.538	963.5	3400.	4100.	5340.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/57-12/19/73	41	272.	292.512	746.	92.	22031.606	148.43	116.8	168.	404.5	516.4
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/25/67-12/19/73	13	0.26	0.322	0.71	0.11	0.045	0.212	0.11	0.11	0.54	0.666
71825	ACIDITY, TOTAL (MG/L AS H)	10/01/57-12/19/73	33	0.6	0.758	2.4	0.1	0.231	0.481	0.2	0.45	1.	1.46
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/09/60-06/25/73	57	1.5	1.688	4.7	0.1	1.332	1.154	0.28	0.6	2.55	3.22
71885	IRON (UG/L AS FE)	10/09/60-09/25/70	47	1000.	1815.748	9600.	30.	3849010.055	1961.889	104.	540.	2600.01	4480.

** - Less than 9 observations ## - Computed 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: FRHI0044

NPS Station ID: FRHI0044 | LAT/LON: 39.732504/ -79.911670 | Agency: 111TSILL | Date Created: 04/14/78
Location: POINT MARION | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 150
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020003 | Depth of Water: 3276 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020003001 | RF1 Mile Point: 0.700 | Distance from RF1: 10.20 | On/Off RF1: OFF
RF3 Index: 05020005005700.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.04 | On/Off RF3:
Description:
UPSTREAM FROM LOCK AND DAM 8 POINT MARION PA. MIDSTREAM OTS STUDY BY THE INST. FOR ENVIRONMENTAL STUDIES UNIV. OF ILLINOIS

Parameter Inventory for Station: FRHI0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32106	CHLOROFORM,WHOLE WATER,UG/L	07/29/76-07/29/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	07/29/76-07/29/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
81491	METHYL PALMITATE WHL WATER SMPL UG/L	07/29/76-07/29/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**
81494	METHYL STEARATE WHL WATER SMPL UG/L	07/29/76-07/29/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0045

NPS Station ID: FRHI0045 LAT/LON: 39.732504/ -79.911670 Agency: 21PA Date Created: 04/19/77
Location: MONONGAHELA RVR-AT LOCK & DAM #8-POINT MARION FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM/BIO STORET Station ID(s): WQN0725 /ABMS0725 /03063000 /PFBC8-042
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020003 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020003001 RF1 Mile Point: 0.450 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 05020005001600.00 RF3 Mile Point: 0.46 Distance from RF3: 0.02 On/Off RF3:
Description:
MONONGAHELA RIVER ON WEST BANK ALONG LAND WALL AT LOCK AND DAM #8, NEAR POINT MARION, GREENE COUNTY. 2.1 KM UPSTREAM OF CONFLUENCE WITH THE CHEAT RIVER, 0.6 KM DOWNSTREAM OF STATE LINE. SAMPLED AT WEST BANK. MONTHLY CHEMICAL AND ANNUAL QUALITATIVE BIOLOGICAL. SPECIAL PARAMETERS: GROSS ALPHA AND BETA.

Parameter Inventory for Station: FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	191	13.5	14.02	29.	0.	61.972	7.872	4.	7.	21.2	25.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	254	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	254	4465.	8029.024	42400.	251.	75217934.434	8672.827	1100.	1987.5	11100.	21700.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	88	5945.	9061.227	33600.	332.	80232085.258	8957.236	808.9	1462.5	14950.	22740.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	108	10.95	11.491	16.57	6.5	4.38	2.093	9.3	9.6	13.283	14.365
00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/75-12/13/77	18	3.5	8.061	40.	2.5	116.868	10.811	2.5	3.	6.95	34.6
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	46	5.65	19.498	200.	1.	1346.143	36.69	3.	4.	22.	42.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	103	230.	269.078	750.	80.	23937.621	154.718	114.	150.	350.	490.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	248	305.	350.581	1475.	135.	25535.362	159.798	200.	239.25	419.75	566.4
00300	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	160	10.	9.956	15.	5.4	3.688	1.92	7.5	8.25	11.75	12.49
00400	PH (STANDARD UNITS)	12/05/75-07/08/97	187	7.2	7.165	8.7	5.	0.232	0.482	6.6	7.	7.5	7.7
00400	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	187	7.2	6.717	8.7	5.	0.434	0.658	6.6	7.	7.5	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	187	0.063	0.192	10.	0.002	0.627	0.792	0.02	0.032	0.1	0.251
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	251	6.7	6.702	7.7	5.9	0.11	0.332	6.3	6.5	6.9	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	251	6.7	6.581	7.7	5.9	0.125	0.353	6.3	6.5	6.9	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	251	0.2	0.262	1.259	0.02	0.045	0.212	0.063	0.126	0.316	0.501
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	251	26.	27.255	166.	3.	176.895	13.3	15.	20.	32.	40.
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/24/75-04/13/83	48	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/24/75-12/13/77	20	0.	2.1	42.	0.	88.2	9.391	0.	0.	0.	0.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	212	217.	250.552	636.	16.	13466.021	116.043	138.	164.	314.	421.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	94	8.	20.553	206.	1.	994.83	31.541	1.	2.	26.	54.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	250	0.12	0.169	6.93	0.01	0.195	0.441	0.05	0.09	0.17	0.25
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	249	0.01	0.015	0.62	0.001	0.002	0.047	0.002	0.006	0.014	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	248	0.61	0.632	1.32	0.19	0.031	0.175	0.439	0.513	0.728	0.861
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	250	0.05	0.067	0.92	0.01	0.01	0.1	0.02	0.03	0.07	0.119
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	113	2.	2.07	4.4	1.1	0.41	0.64	1.34	1.6	2.4	3.06
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/30/82-09/12/83	16	0.005	0.052	0.26	0.001	0.008	0.091	0.001	0.001	0.035	0.232
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/01/75-09/12/83	24	0.01	0.106	0.84	0.001	0.04	0.201	0.001	0.005	0.103	0.4
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	251	110.	126.359	311.	46.	2579.007	50.784	76.2	89.	154.	200.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/24/75-12/13/77	19	30.	36.447	80.	14.	299.494	17.306	16.8	24.8	48.8	60.
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	116	30.95	36.387	218.	0.	559.286	23.649	20.97	24.	42.85	58.45

** - Less than 9 observations ## - 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: FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/24/75-12/13/77	19	9.5	11.516	27.5	4.3	41.655	6.454	5.8	6.5	15.8	24.8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	116	8.	10.296	90.	1.	88.603	9.413	5.14	6.325	12.	16.15
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	137	7.	9.438	204.	3.	295.027	17.176	5.	5.	10.	13.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	251	105.	127.618	435.	5.	4921.349	70.152	62.2	76.	156.	235.
00951	FLUORIDE, TOTAL (MG/L AS F)	03/19/80-03/19/80	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/10/84-08/05/86	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/06/88-10/06/88	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/76-08/17/87	11 ##	0.5	0.664	2.	0.1	0.369	0.607	0.1	0.1	1.	1.9
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/76-08/17/87	11 ##	5.	7.727	35.	2.	93.818	9.686	2.	2.	10.	30.
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	125 ##	5.	9.34	50.	0.5	74.748	8.646	5.	5.	11.	18.
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	253	710.	1355.308	13190.	81.	3043317.897	1744.511	278.	449.5	1570.	3254.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	125 ##	2.	2.564	25.	0.5	11.197	3.346	0.5	2.	2.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	132	207.5	203.106	648.	25.	8901.943	94.35	76.8	140.	250.75	309.8
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	125 ##	12.5	16.192	78.	5.	108.035	10.394	12.5	12.5	12.5	28.
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	139	29.	36.698	160.	5.	975.691	31.236	5.	11.	52.	80.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	127	417.	927.717	8480.	50.	1837641.681	1355.596	140.	220.	1080.	2232.
01501	ALPHA, TOTAL	03/29/76-04/11/84	46 ##	1.	1.	6.	0.5	0.722	0.85	0.5	0.5	1.	1.5
01502	ALPHA, TOTAL, COUNTING ERROR	04/29/76-02/26/81	6	1.	1.167	2.	1.	0.167	0.408	**	**	**	**
03501	BETA, TOTAL	03/29/76-04/11/84	45 ##	2.	2.644	10.	1.	2.984	1.728	1.	1.5	4.	4.
03502	BETA, TOTAL, COUNTING ERROR	03/29/76-04/11/84	20	2.	1.7	3.	1.	0.326	0.571	1.	1.	2.	2.
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/16/80-04/11/84	13 ##	148.5	149.308	168.5	135.	93.189	9.653	137.	140.	156.5	165.1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	122	310.	1236.148	20000.	5.	7701288.135	2775.119	20.	100.	1225.	3000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	122	2.491	2.491	4.301	0.699	0.644	0.802	1.301	2.	3.088	3.477
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			310.022								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	04/29/76-11/01/83	26	0.	0.923	5.	0.	2.554	1.598	0.	0.	1.	5.
34664	PCB - 1221 WET WGTTISMG/KG	09/28/95-09/28/95	1 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	09/28/95-09/28/95	1 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	09/28/95-09/28/95	1 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	09/28/95-09/28/95	1 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-09/28/95	3 ##	0.006	0.019	0.05	0.003	0.001	0.027	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/06/88-10/06/88	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/06/88-09/28/95	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/06/88-09/28/95	3 ##	0.006	0.006	0.01	0.003	0.	0.004	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/06/88-09/28/95	3 ##	0.006	0.006	0.01	0.003	0.	0.004	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	09/28/95-09/28/95	1 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	09/28/95-09/28/95	1 ##	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/01/75-11/01/75	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/28/95	2 ##	0.01	0.01	0.014	0.006	0.	0.006	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/27/94-09/28/95	2 ##	0.039	0.039	0.072	0.006	0.002	0.047	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/27/94-09/28/95	2 ##	0.005	0.005	0.006	0.005	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/27/94-09/28/95	2 ##	0.02	0.02	0.034	0.006	0.	0.02	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/06/88-09/28/95	3 ##	0.006	0.006	0.01	0.003	0.	0.004	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	10/06/88-09/28/95	3	3.2	3.333	4.4	2.4	1.013	1.007	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	3 ##	0.005	0.012	0.025	0.005	0.	0.012	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	3 ##	0.02	0.017	0.025	0.005	0.	0.01	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/06/88-09/28/95	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/06/88-09/28/95	3 ##	0.006	0.007	0.01	0.005	0.	0.003	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/06/88-09/28/95	3 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/06/88-09/27/94	2	0.319	0.319	0.447	0.19	0.033	0.182	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/06/88-09/28/95	3 ##	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
46008	PHYLUM NEMATODA, NEMATODES	11/17/76-09/08/81	9	3.	5.111	14.	1.	20.361	4.512	1.	1.	8.5	14.
46014	FAMILY HIRUDIDAE, LEECHES	09/23/82-10/05/84	4	2.	2.25	4.	1.	2.25	1.5	**	**	**	**
46018	FAMILY GAMMARIDAE, SCUD	09/23/82-10/05/84	5	8.	6.2	10.	1.	13.2	3.633	**	**	**	**
46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	09/23/82-10/05/84	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	10/05/84-11/13/87	5	1.	1.6	3.	1.	0.8	0.894	**	**	**	**
46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	10/19/83-10/05/84	3	1.	1.	1.	1.	0.	0.	**	**	**	**
46084	FAMILY SIMULIIDAE, BLACK FLIES	10/05/84-11/13/87	4	1.5	2.5	6.	1.	5.667	2.38	**	**	**	**
46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	11/17/76-11/13/87	20	35.5	53.3	214.	2.	2713.063	52.087	6.8	18.	79.	132.6
46095	FAMILY PHYSIDAE, LUNG SNAILS	09/23/82-11/13/87	3	1.	1.667	3.	1.	1.333	1.155	**	**	**	**
46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	11/17/76-11/13/87	20	199.5	367.45	1000.	8.	146512.155	382.769	10.6	30.25	608.5	1000.
46142	FAMILY POLYCENTROPIDAE, CADDISFLY NO/FT2	10/17/77-11/13/87	14	2.	3.	13.	1.	9.692	3.113	1.	1.	4.	8.5

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

Parameter Inventory for Station: FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	09/27/94-09/28/95	2 ##	0.005	0.005	0.006	0.005	0.	0.	**	**	**	**
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	02/14/79-11/13/84	4	0.	0.	0.	0.	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	10/06/88-09/28/95	3	77.	76.333	78.	74.	4.333	2.082	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	117	0.	2.564	46.	0.	61.248	7.826	0.	0.	0.	8.
71900	MERCURY, TOTAL (UG/L AS HG)	10/10/84-08/05/86	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/27/94-09/28/95	2	0.12	0.12	0.13	0.11	0.	0.014	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/28/95	3	0.03	0.035	0.06	0.015	0.001	0.023	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/28/95	3	0.42	0.533	0.77	0.41	0.042	0.205	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-09/28/95	3 ##	0.05	0.067	0.13	0.02	0.003	0.057	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-09/28/95	3	0.003	0.005	0.01	0.002	0.	0.004	**	**	**	**
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/28/95	2 ##	0.005	0.005	0.006	0.005	0.	0.	**	**	**	**
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	09/27/94-09/28/95	2 ##	0.005	0.005	0.006	0.005	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/06/88-09/28/95	3	5.	4.	5.	2.	3.	1.732	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/06/88-09/28/95	3 ##	0.028	0.034	0.05	0.025	0.	0.014	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/27/94-09/28/95	2 ##	0.012	0.012	0.018	0.006	0.	0.009	**	**	**	**
81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	09/27/94-09/27/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/27/94-09/28/95	2 ##	0.005	0.005	0.006	0.005	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	70	6.	13.281	143.	0.5	561.686	23.7	1.3	2.3	13.425	27.6

** - 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: FRHI0045

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	18	0	0.00	5	0	0.00	6	0	0.00	7	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	46	4	0.09	13	0	0.00	18	1	0.06	15	3	0.20			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	160	0	0.00	55	0	0.00	59	0	0.00	46	0	0.00			
00400	PH	Other-Hi Lim.	9.	187	0	0.00	64	0	0.00	70	0	0.00	53	0	0.00			
		Other-Lo Lim.	6.5	187	14	0.07	64	5	0.08	70	4	0.06	53	5	0.09			
00403	PH, LAB	Other-Hi Lim.	9.	251	0	0.00	83	0	0.00	98	0	0.00	70	0	0.00			
		Other-Lo Lim.	6.5	251	92	0.37	83	36	0.43	98	33	0.34	70	23	0.33			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	249	0	0.00	83	0	0.00	96	0	0.00	70	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	248	0	0.00	83	0	0.00	95	0	0.00	70	0	0.00			
00719	CYANIDE, FREE,IN WATER&WASTEWATERS, HBG	Fresh Acute	22.	16	0	0.00	5	0	0.00	6	0	0.00	5	0	0.00			
		Drinking Water	200.	16	0	0.00	5	0	0.00	6	0	0.00	5	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	24	9	0.38	8	4	0.50	8	4	0.50	8	1	0.13			
		Drinking Water	0.2	24	5	0.21	8	4	0.50	8	1	0.13	8	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	137	0	0.00	46	0	0.00	53	0	0.00	38	0	0.00			
		Drinking Water	250.	137	0	0.00	46	0	0.00	53	0	0.00	38	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	251	19	0.08	83	12	0.14	98	4	0.04	70	3	0.04			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	11	0	0.00	8	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5.	11	0	0.00	8	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	11	0	0.00	8	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	121 &	9	0.07	41	4	0.10	47	2	0.04	33	3	0.09			
		Drinking Water	1300.	125	0	0.00	45	0	0.00	47	0	0.00	33	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	125	0	0.00	45	0	0.00	47	0	0.00	33	0	0.00			
		Drinking Water	15.	124 &	1	0.01	44	1	0.02	47	0	0.00	33	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	125	0	0.00	45	0	0.00	47	0	0.00	33	0	0.00			
		Drinking Water	100.	125	0	0.00	45	0	0.00	47	0	0.00	33	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	139	3	0.02	51	1	0.02	52	1	0.02	36	1	0.03			
		Drinking Water	5000.	139	0	0.00	51	0	0.00	52	0	0.00	36	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	13	0	0.00	6	0	0.00	6	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	122	78	0.64	42	21	0.50	45	31	0.69	35	26	0.74			
50060	CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	4	0	0.00				3	0	0.00	1	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

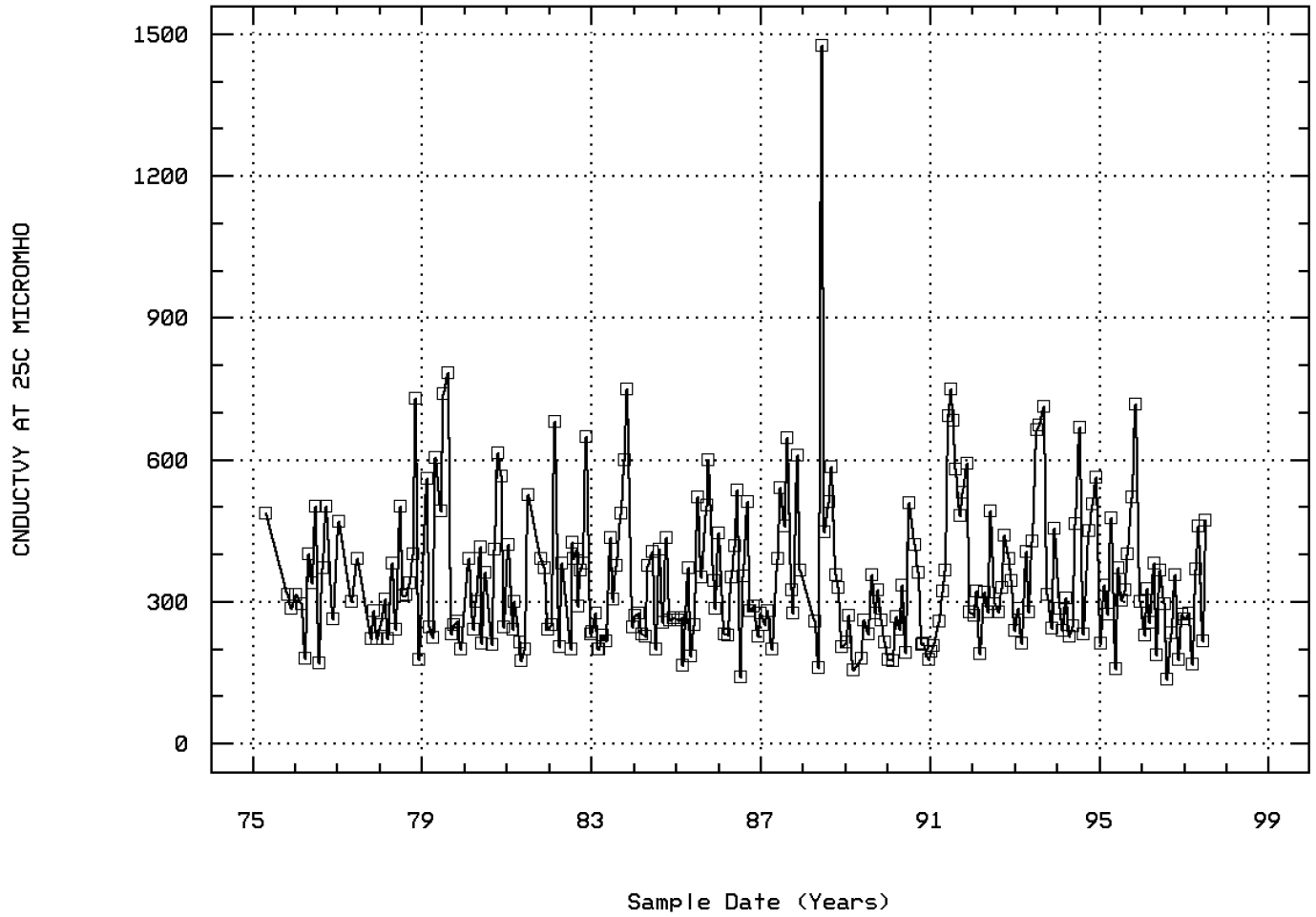
EPA Water Quality Criteria Analysis for Station: FRHI0045

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	70	4	0.06	27	1	0.04	27	2	0.07	16	1	0.06			

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

Station: FRHI0045 Parameter Code: 00095

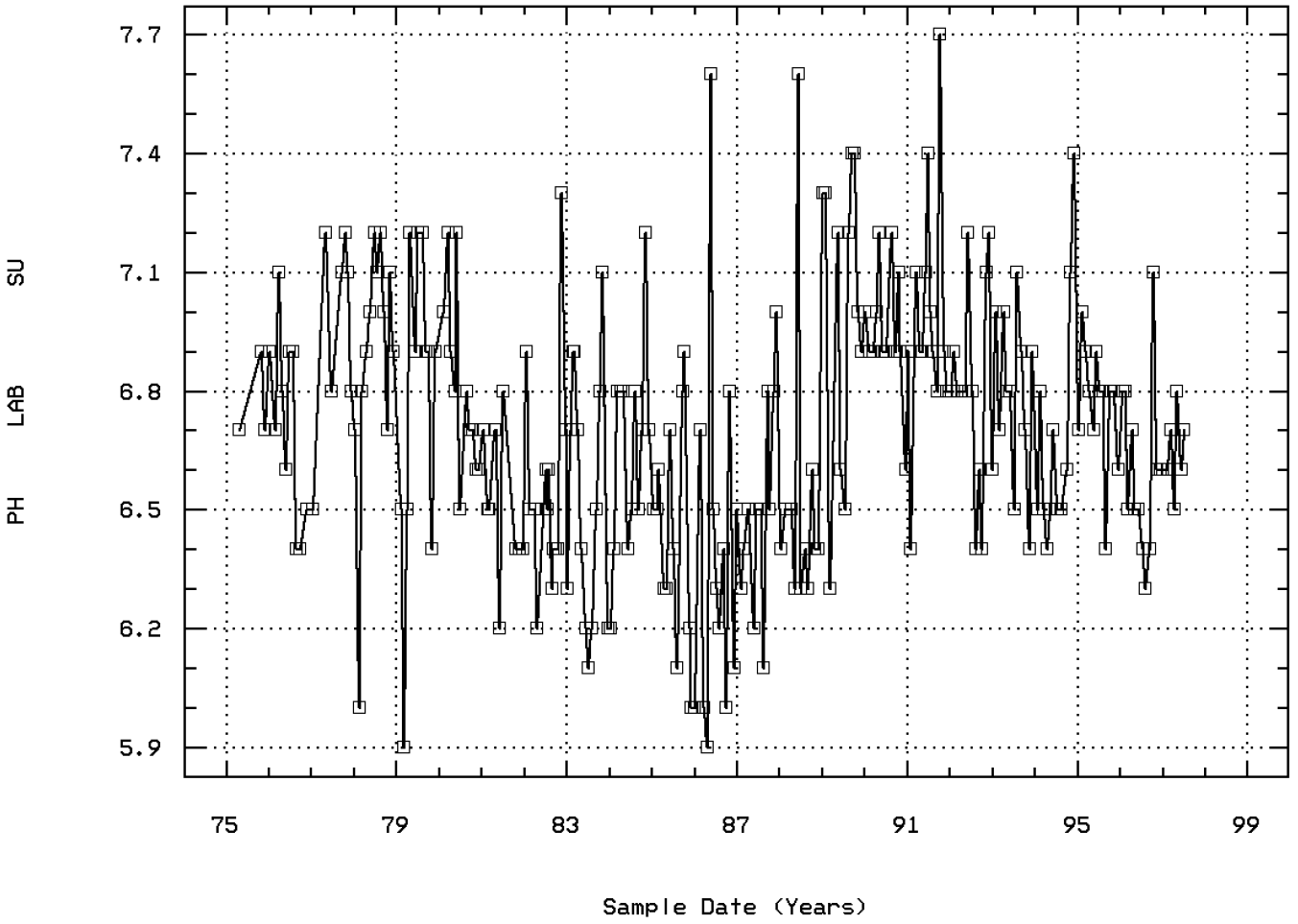
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00403

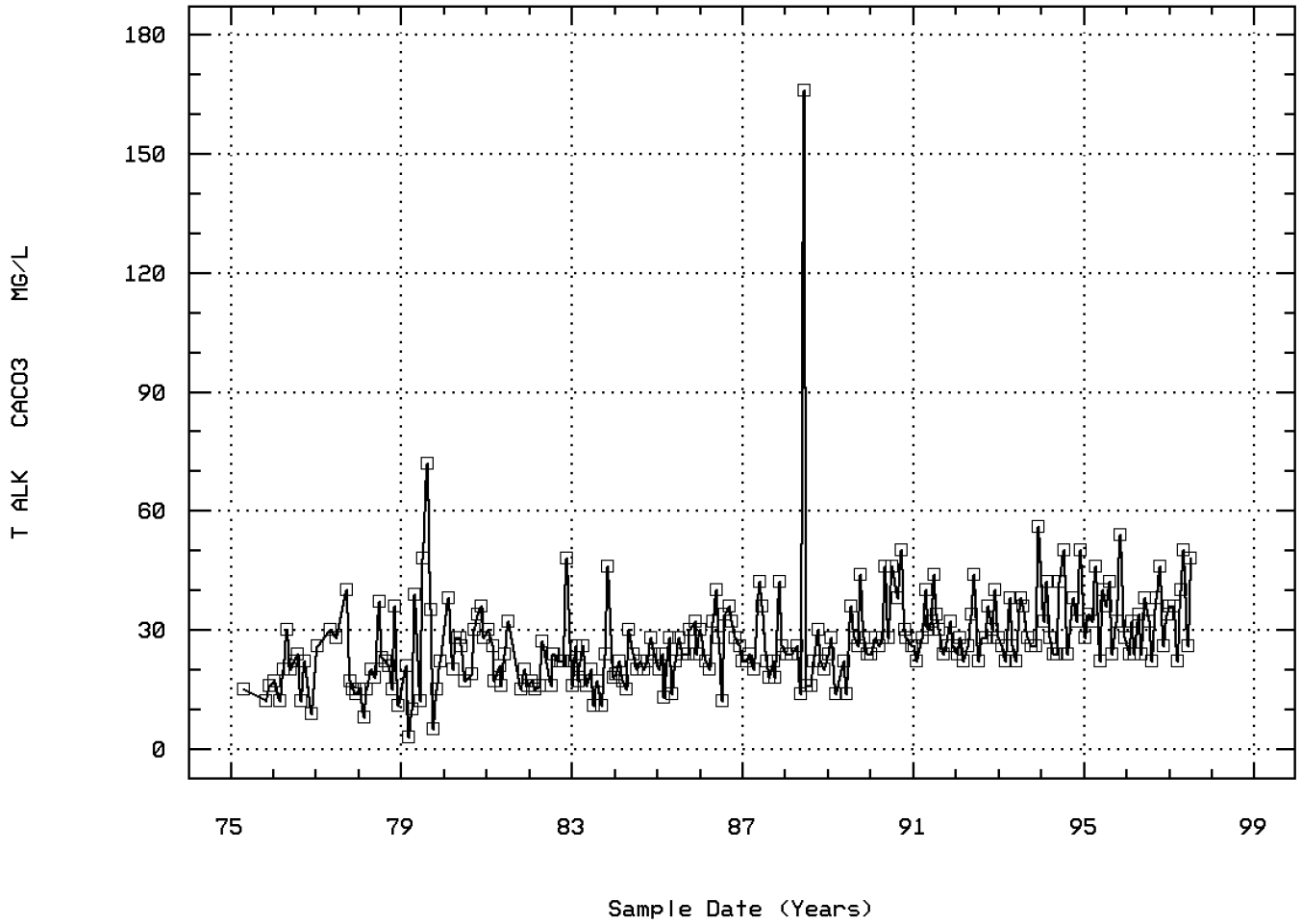
PH, LAB, STANDARD UNITS



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00410

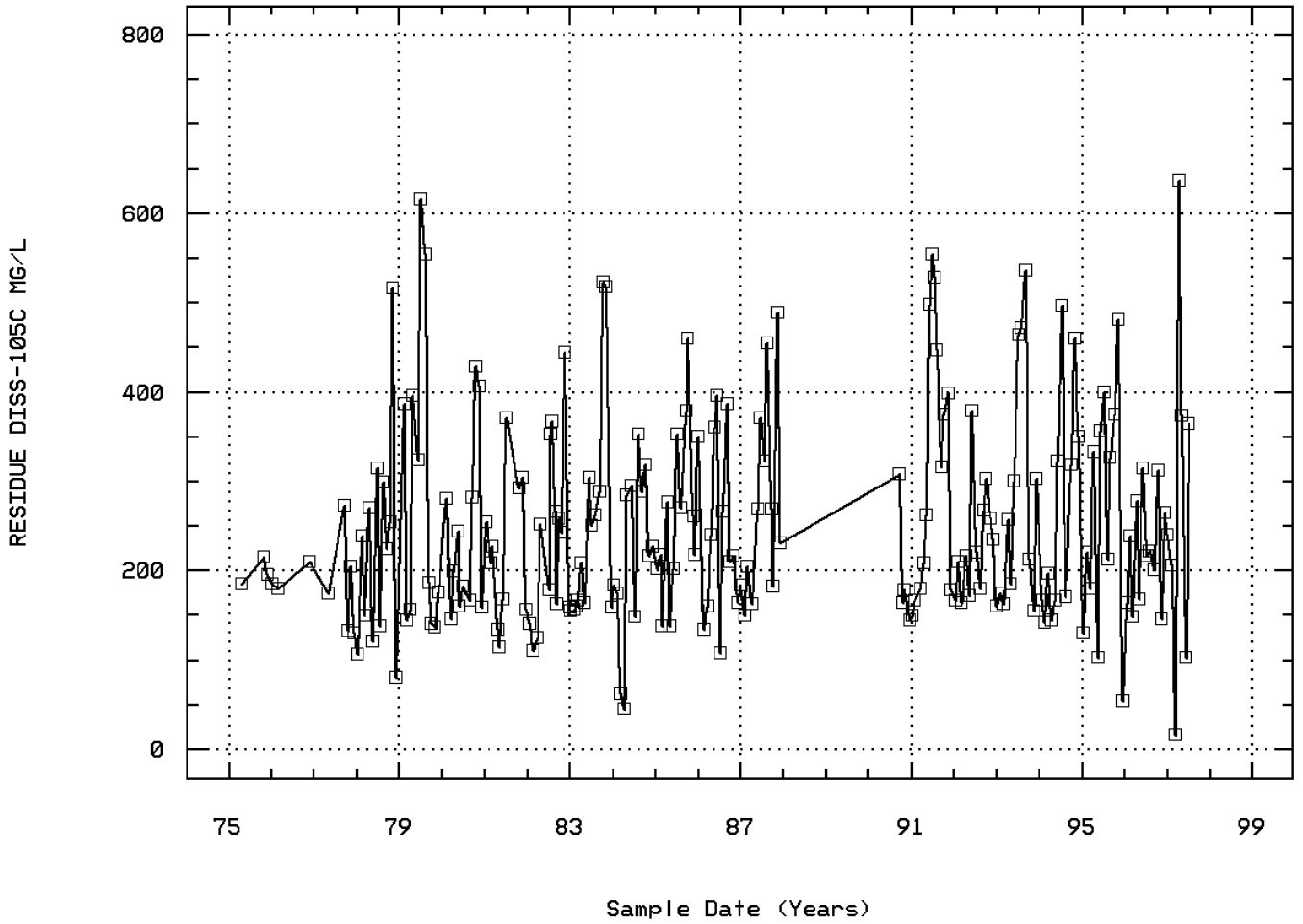
ALKALINITY, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00515

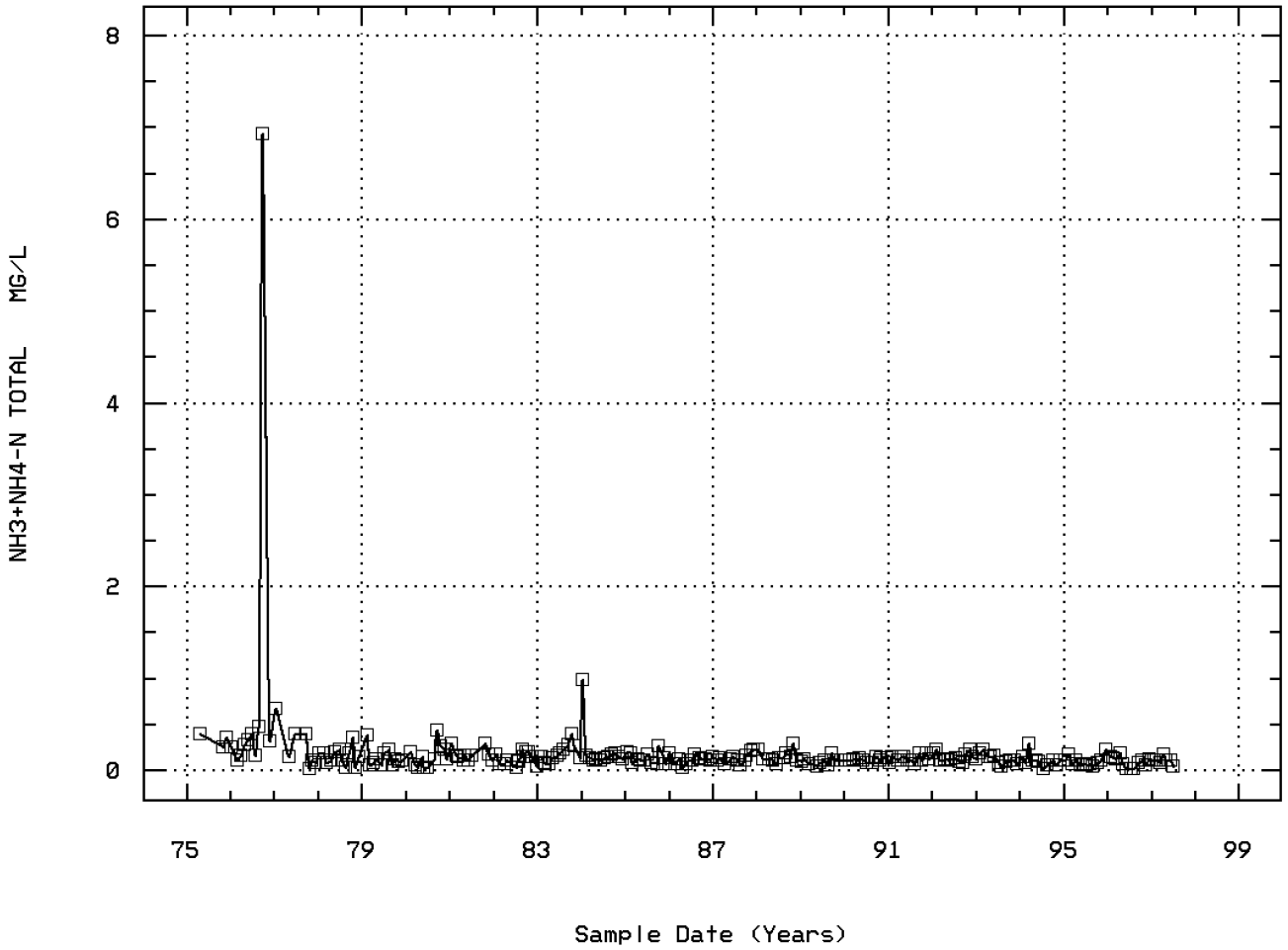
RESIDUE, TOTAL FILTRABLE (DRIED AT 105



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00610

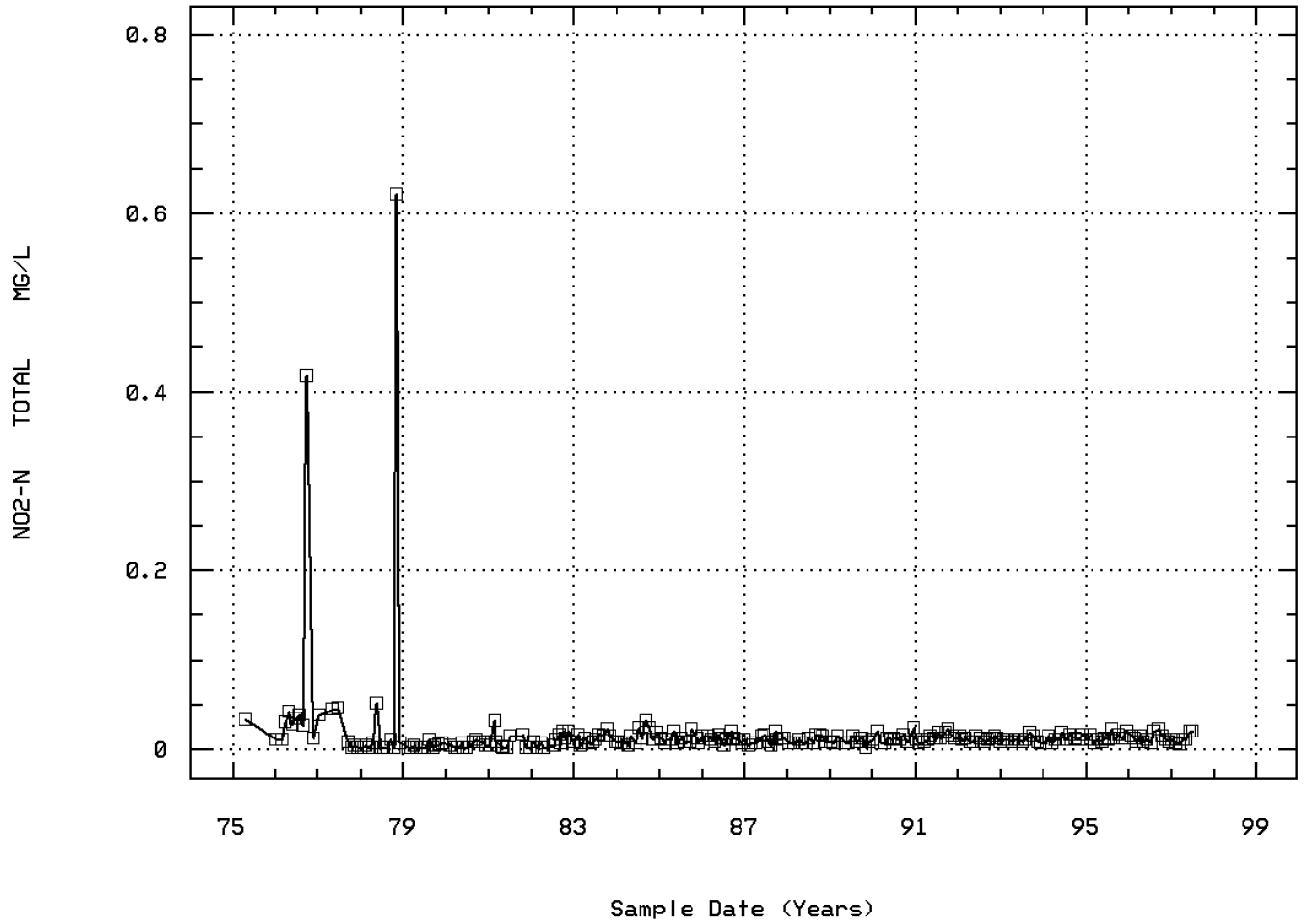
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00615

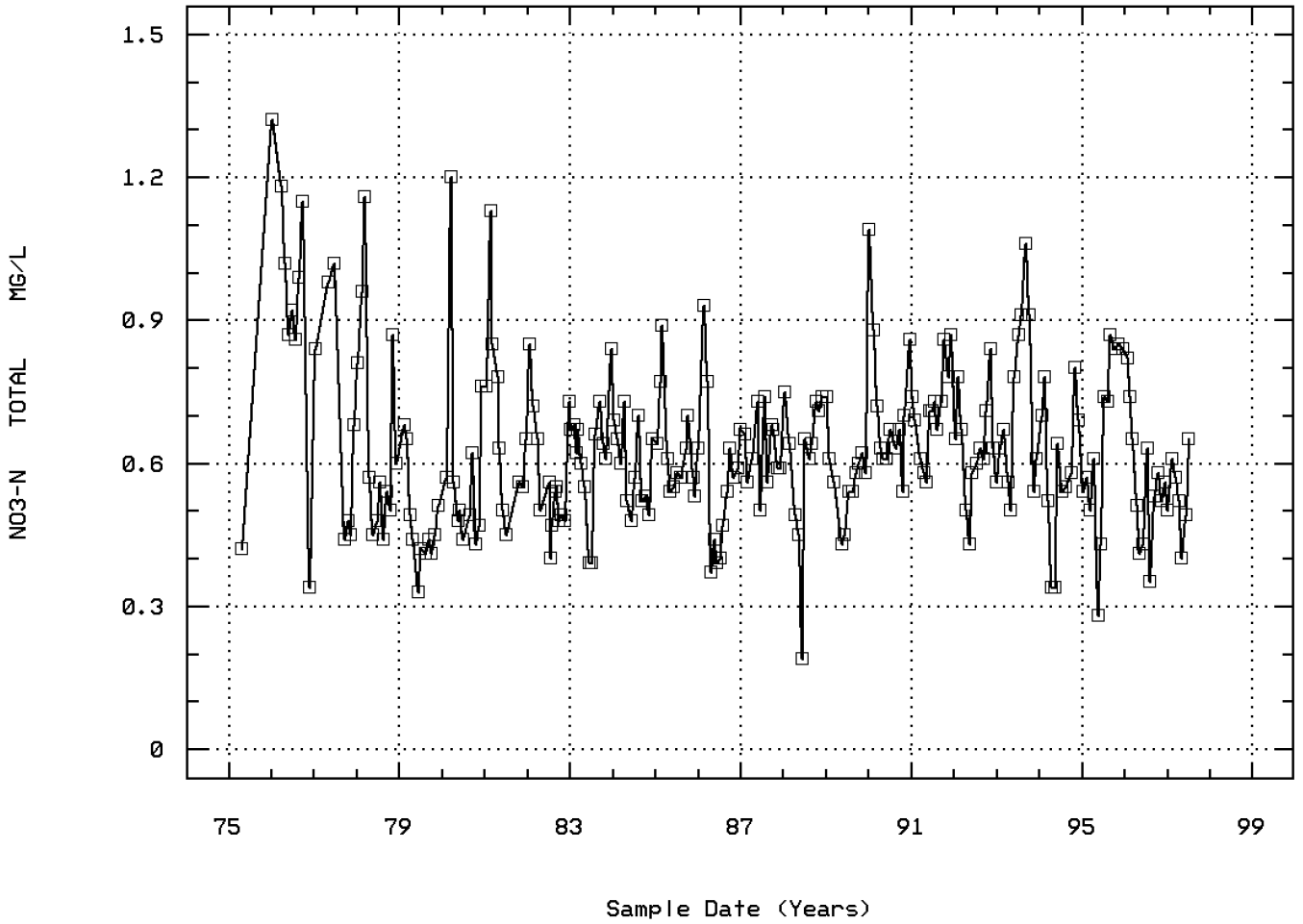
NITRITE NITROGEN, TOTAL (MG/L AS N)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00620

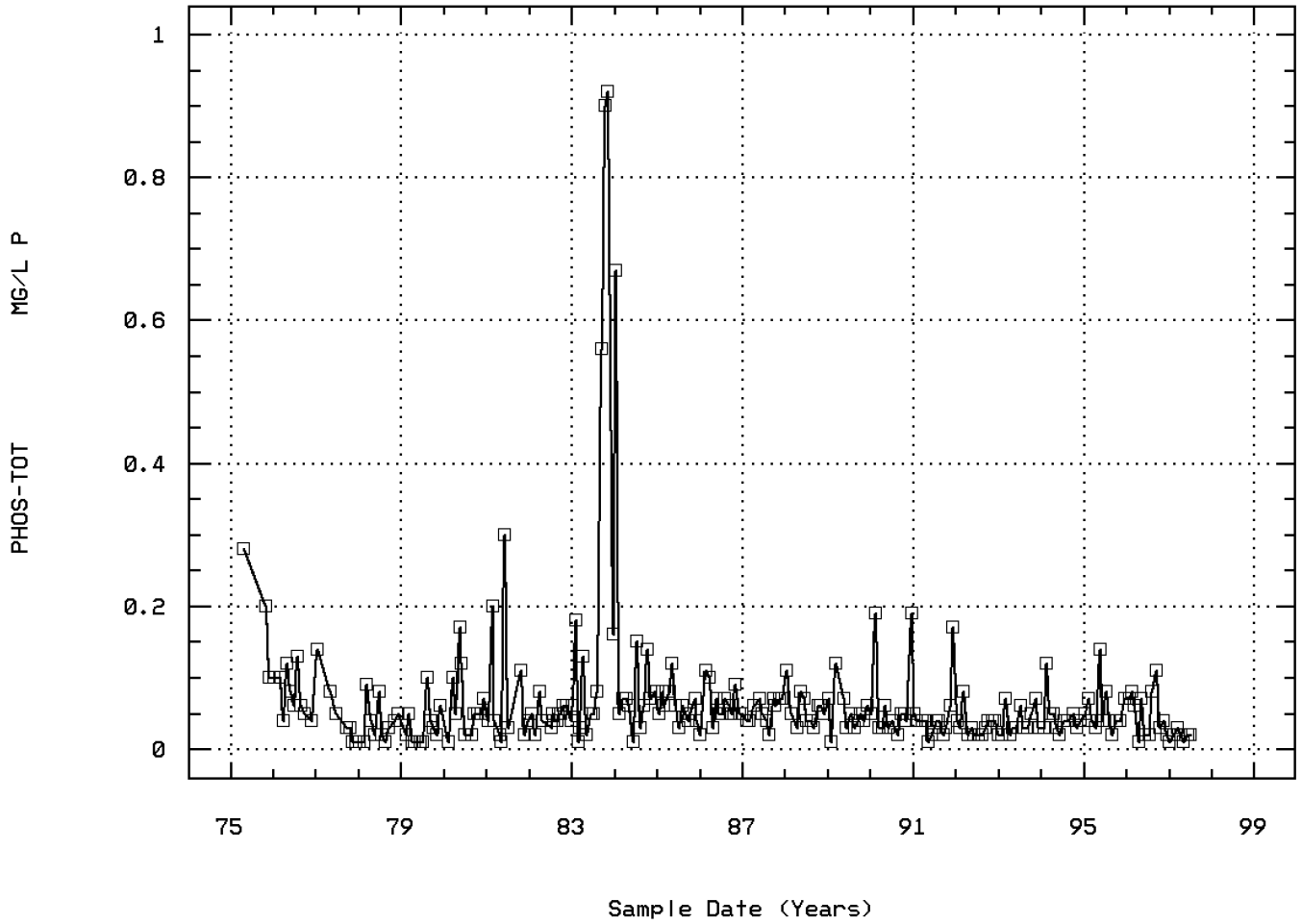
NITRATE NITROGEN, TOTAL (MG/L AS N)



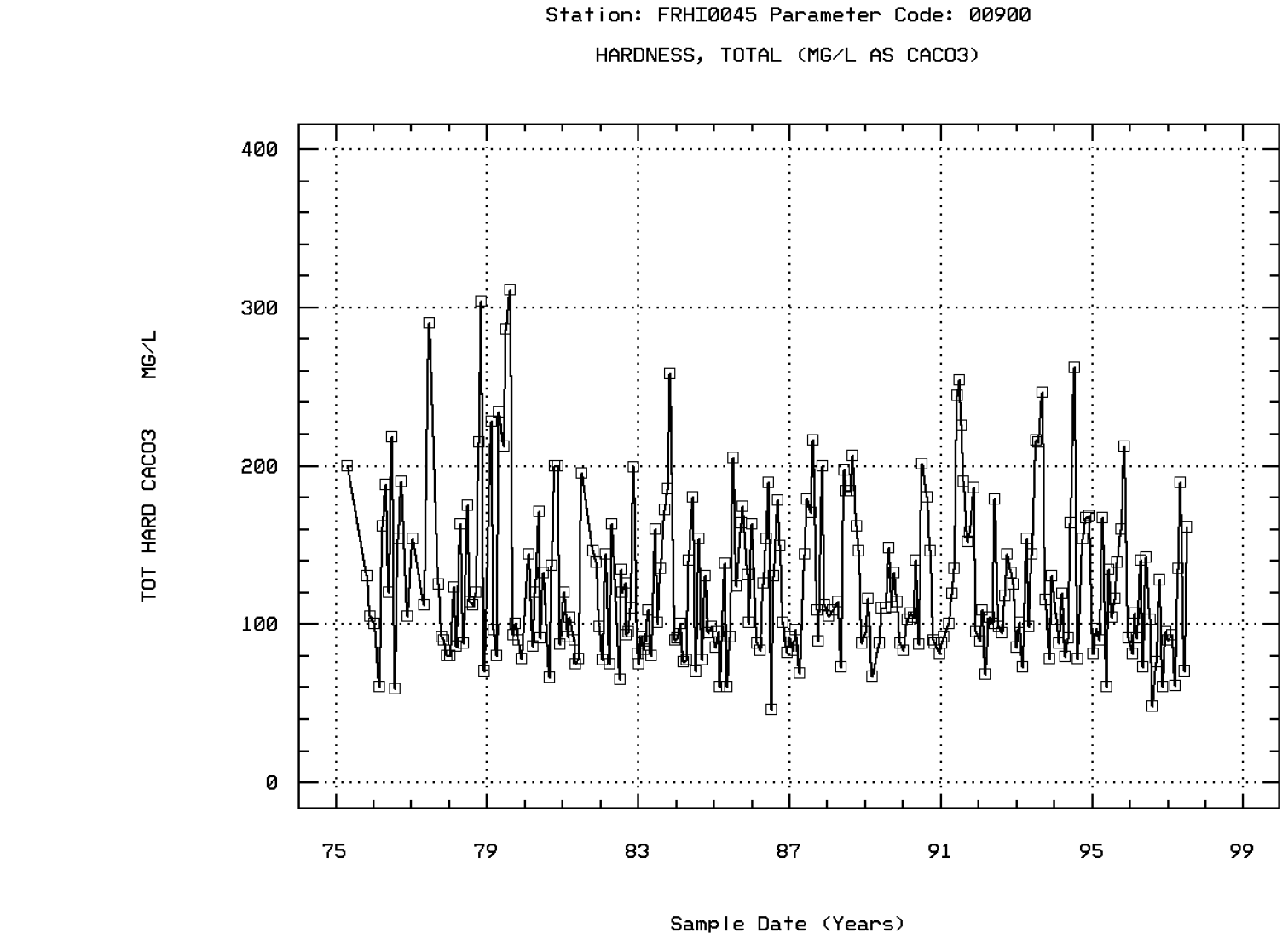
MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00665

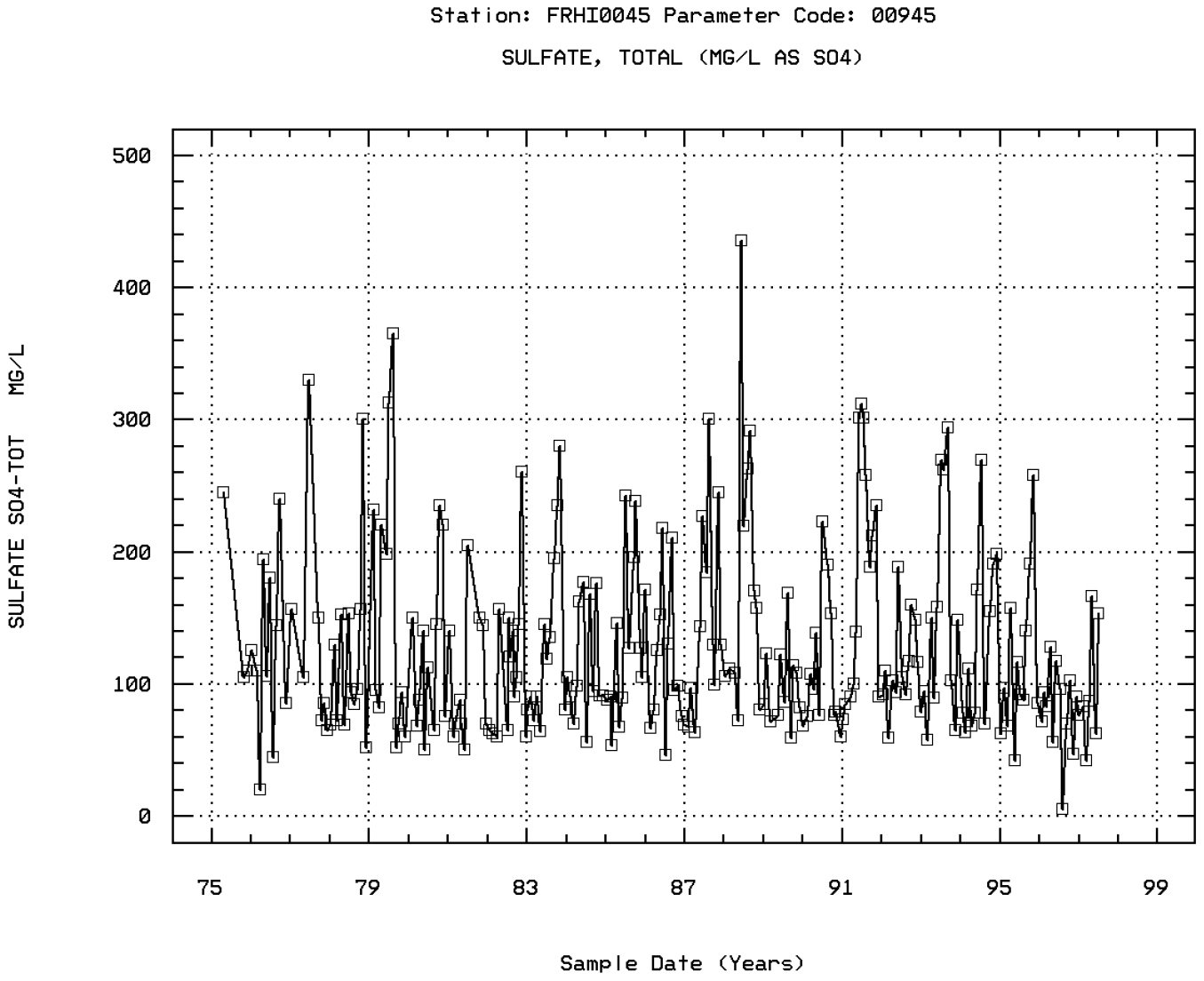
PHOSPHORUS, TOTAL (MG/L AS P)



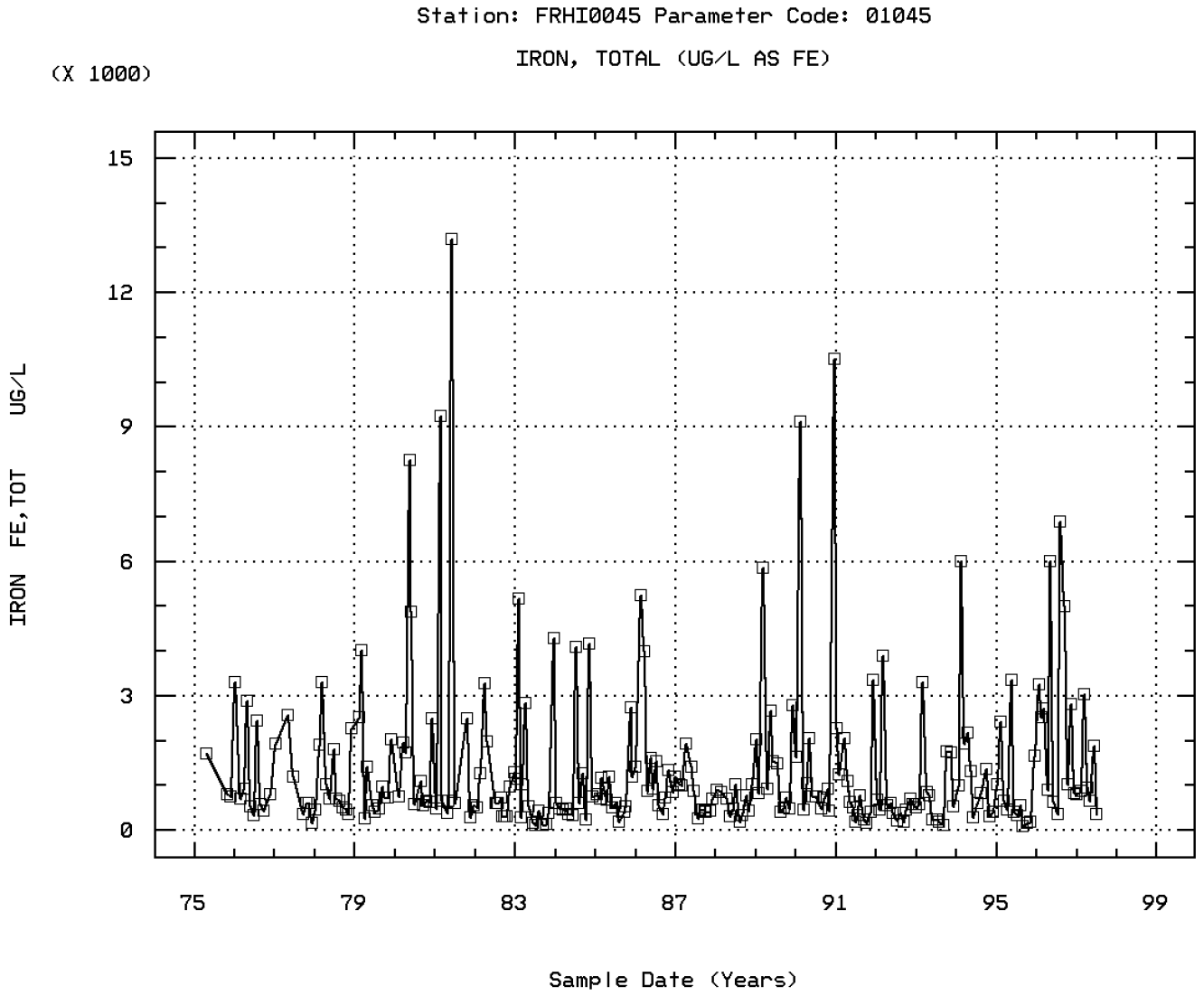
MONONGAHELA RVR-AT LOCK & DAM #8-POINT



MONONGAHELA RVR-AT LOCK & DAM #8-POINT



MONONGAHELA RVR-AT LOCK & DAM #8-POINT



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Annual Analysis for 1975 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	2	9.5	9.5	14.	5.	40.5	6.364	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	3	2960.	5303.333	11500.	1450.	29369033.333	5419.32	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	3	315.	361.667	485.	285.	11633.333	107.858	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	3	6.7	6.767	6.9	6.7	0.013	0.115	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	3	6.7	6.757	6.9	6.7	0.013	0.116	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	3	0.2	0.175	0.2	0.126	0.002	0.043	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	3	15.	14.333	16.	12.	4.333	2.082	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	3	195.	198.333	215.	185.	233.333	15.275	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	3	0.35	0.329	0.39	0.247	0.005	0.074	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	1	0.033	0.033	0.033	0.033	0.	0.	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	3	0.2	0.193	0.28	0.1	0.008	0.09	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	3	130.	145.	200.	105.	2425.	49.244	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	3	6.	5.667	6.	5.	0.333	0.577	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	3	110.	153.333	245.	105.	6308.333	79.425	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	3	800.	1083.333	1700.	750.	285833.333	534.634	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	7	14.	12.857	19.	5.	28.143	5.305	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	12	4310.	6267.417	22100.	819.	35626010.992	5968.753	1218.3	2567.5	8160.	19220.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	10	327.5	333.2	500.	170.	13163.511	114.732	171.	241.5	425.	500.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	3	11.2	11.533	13.	10.4	1.773	1.332	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	3	7.	6.733	7.6	5.6	1.053	1.026	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	3	7.	6.056	7.6	5.6	1.741	1.32	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	3	0.1	0.879	2.512	0.025	2.001	1.415	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	10	6.75	6.72	7.1	6.4	0.057	0.239	6.4	6.475	6.9	7.08
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	10	6.747	6.662	7.1	6.4	0.061	0.247	6.4	6.475	6.9	7.08
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	10	0.179	0.218	0.398	0.079	0.014	0.117	0.084	0.126	0.337	0.398
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	10	20.	18.8	30.	9.	40.844	6.391	9.3	12.	22.5	29.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	3	185.	191.667	210.	180.	258.333	16.073	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	10	0.295	0.939	6.93	0.1	4.444	2.108	0.106	0.16	0.418	6.284
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	10	0.029	0.065	0.418	0.01	0.016	0.125	0.01	0.012	0.039	0.38
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	9	0.99	0.961	1.32	0.34	0.078	0.279	0.34	0.865	1.165	1.32
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	10	0.07	0.078	0.13	0.04	0.001	0.033	0.04	0.048	0.105	0.129
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	10	137.	135.6	218.	59.	3062.267	55.338	59.1	90.	188.5	215.2
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	10	9.5	28.6	204.	5.	3806.044	61.693	5.1	6.75	13.	184.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	10	117.5	124.8	240.	20.	4571.511	67.613	22.4	74.75	183.5	235.4
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	10	750.	1286.	3300.	320.	1265693.333	1125.03	331.	490.	2547.5	3257.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	1990.	1990.	1990.	1990.	0.	0.	**	**	**	**

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Annual Analysis for 1977 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	5	10.	9.4	22.	0.	73.8	8.591	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	12	6375.	7863.333	30500.	820.	68510460.606	8277.105	820.	2450.	9220.	25940.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	4	9.9	10.025	11.	9.3	0.509	0.714	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	6	289.5	313.833	470.	222.	9692.167	98.449	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	3	9.2	9.5	11.6	7.7	3.87	1.967	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	3	7.6	7.233	7.6	6.5	0.403	0.635	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	3	7.6	6.913	7.6	6.5	0.557	0.746	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	3	0.025	0.122	0.316	0.025	0.028	0.168	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	7	7.1	6.957	7.2	6.5	0.07	0.264	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	7	7.1	6.882	7.2	6.5	0.076	0.276	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	7	0.079	0.131	0.316	0.063	0.008	0.092	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	7	26.	24.286	40.	14.	90.238	9.499	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	5	174.	182.4	272.	130.	3462.8	58.846	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	7	0.15	0.259	0.67	0.01	0.057	0.238	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	7	0.008	0.02	0.046	0.001	0.	0.021	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	7	0.68	0.699	1.02	0.44	0.063	0.251	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	7	0.03	0.05	0.14	0.01	0.002	0.047	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	7	112.	134.714	290.	80.	5318.905	72.931	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	7	10.	12.714	25.	5.	56.238	7.499	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	7	105.	137.571	330.	65.	8485.619	92.117	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	7	600.	1048.	2550.	150.	785074.667	886.044	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	1	220.	220.	220.	220.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	1	95.	95.	95.	95.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	200.	200.	200.	200.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	7	220.	363.571	840.	5.	94789.286	307.879	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	7	2.342	2.266	2.924	0.699	0.571	0.756	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			184.647								

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Annual Analysis for 1978 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	13.5	13.583	25.	0.	90.447	9.51	0.3	4.25	24.	25.
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	4440.	8571.769	31300.	948.	96885405.692	9843.038	966.8	1665.	14330.	27980.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	11	9.1	9.	9.5	6.5	0.724	0.851	7.	9.1	9.5	9.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	11	5.8	9.664	22.	3.	66.421	8.15	3.02	3.4	22.	22.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	314.	347.583	730.	178.	22139.356	148.793	190.6	242.5	395.	661.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	10	9.35	9.55	12.6	7.	3.963	1.991	7.03	7.675	11.1	12.57
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.1	6.982	7.5	5.5	0.336	0.579	5.68	6.9	7.3	7.5
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.1	6.421	7.5	5.5	0.682	0.826	5.68	6.9	7.3	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	11	0.079	0.379	3.162	0.032	0.863	0.929	0.032	0.05	0.126	2.609
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.95	6.883	7.2	6.	0.107	0.327	6.21	6.725	7.1	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.947	6.719	7.2	6.	0.137	0.37	6.21	6.725	7.1	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.113	0.191	1.	0.063	0.067	0.259	0.063	0.079	0.189	0.76
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	19.	20.083	37.	8.	78.447	8.857	8.9	15.	22.75	36.7
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	231.	225.667	516.	80.	14578.788	120.743	87.8	124.5	291.	455.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.165	0.149	0.35	0.025	0.008	0.091	0.025	0.085	0.195	0.311
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.003	0.059	0.62	0.001	0.031	0.177	0.001	0.001	0.01	0.449
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.565	0.662	1.16	0.44	0.054	0.232	0.443	0.485	0.855	1.1
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	11	0.03	0.036	0.09	0.01	0.001	0.028	0.01	0.01	0.05	0.088
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	117.	137.5	304.	70.	4588.091	67.735	73.	86.5	172.	277.3

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Annual Analysis for 1978 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	31.6	39.192	117.6	17.6	705.83	26.567	18.71	22.525	43.975	96.24
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	7.55	9.65	27.	2.4	40.046	6.328	3.09	6.8	11.9	23.22
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	12 ##	5.	6.083	18.	5.	14.083	3.753	5.	5.	5.	14.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	94.5	118.75	300.	52.	4600.205	67.825	57.1	69.75	152.75	256.8
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	700.	1170.833	3300.	350.	866571.97	930.898	380.	462.5	1875.	2985.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	2	240.	240.	300.	180.	7200.	84.853	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	390.	626.25	2400.	5.	515000.568	717.635	5.	42.5	1112.5	2070.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2.573	2.277	3.38	0.699	0.916	0.957	0.699	1.287	3.042	3.3
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			189.208								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	11	0.	0.636	7.	0.	4.455	2.111	0.	0.	0.	5.6

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Annual Analysis for 1979 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	15	5270.	7282.667	21400.	1040.	38332763.81	6191.346	1040.	2140.	14500.	17500.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	10	5.55	9.37	27.	2.	64.776	8.048	2.17	4.15	15.75	26.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	11	259.	416.727	782.	200.	49932.818	223.457	204.8	230.	603.	773.6
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	11	6.9	6.773	7.2	5.9	0.166	0.408	6.	6.5	7.2	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	11	6.9	6.567	7.2	5.9	0.213	0.461	6.	6.5	7.2	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	11	0.126	0.271	1.259	0.063	0.121	0.348	0.063	0.063	0.316	1.087
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	21.	25.636	72.	3.	443.255	21.054	3.4	10.	39.	67.2
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	11	186.	292.182	616.	136.	30682.764	175.165	136.8	144.	396.	603.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.1	0.131	0.38	0.05	0.01	0.099	0.05	0.05	0.18	0.348
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11 ##	0.002	0.003	0.01	0.001	0.	0.003	0.001	0.001	0.005	0.009
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.44	0.475	0.68	0.33	0.011	0.105	0.346	0.41	0.51	0.674
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	11	0.02	0.033	0.1	0.01	0.001	0.028	0.01	0.01	0.05	0.092
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	100.	164.364	311.	78.	8148.055	90.267	78.4	90.	234.	306.
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	10	41.75	46.47	84.2	21.	608.471	24.667	21.22	23.5	69.2	83.48
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	10	12.7	13.29	28.8	5.	62.217	7.888	5.	5.975	18.5	27.8
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	10 ##	5.	7.6	18.	5.	19.6	4.427	5.	5.	10.5	17.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	11	95.	161.818	365.	52.	12018.764	109.63	53.6	70.	232.	354.6
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	11	720.	1269.091	4000.	250.	1323549.091	1150.456	280.	460.	2020.	3700.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	210.	855.	3000.	20.	1037700.	1018.676	47.	120.	1725.	2760.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2.31	2.534	3.477	1.301	0.464	0.681	1.523	2.079	3.235	3.437
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			342.046								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	11	0.	0.455	5.	0.	2.273	1.508	0.	0.	0.	4.

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Annual Analysis for 1980 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	5	12.	12.	19.	5.	49.	7.	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	16100.	14620.	37400.	2020.	158304600.	12581.916	2112.	2295.	25500.	33520.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	2	9.35	9.35	9.4	9.3	0.005	0.071	**	**	**	**

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Annual Analysis for 1980 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	11	5.	24.655	150.	1.	1848.633	42.996	1.4	4.	28.	125.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	11	360.	360.182	615.	210.	18910.364	137.515	210.4	240.	415.	605.
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	11	6.8	6.818	7.2	6.5	0.056	0.236	6.52	6.6	7.	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	11	6.8	6.766	7.2	6.5	0.059	0.242	6.52	6.6	7.	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	11	0.158	0.172	0.316	0.063	0.007	0.081	0.063	0.1	0.251	0.303
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	28.	27.636	38.	17.	47.255	6.874	17.4	20.	34.	37.6
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	11	199.	241.	428.	146.	9875.	99.373	148.4	160.	282.	423.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.12	0.148	0.43	0.025	0.016	0.125	0.025	0.025	0.22	0.396
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.004	0.005	0.01	0.001	0.	0.003	0.001	0.001	0.008	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.5	0.593	1.2	0.43	0.05	0.223	0.432	0.47	0.62	1.112
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	11	0.05	0.065	0.17	0.01	0.002	0.048	0.012	0.02	0.1	0.16
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	132.	130.364	200.	66.	2123.055	46.077	70.	87.	171.	200.
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	11	34.	36.273	60.8	21.6	204.266	14.292	21.76	23.	42.4	60.8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	11	10.	9.809	18.2	2.5	15.183	3.897	3.4	8.	12.	16.96
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	11 ##	5.	6.818	13.	4.	9.564	3.093	4.2	5.	8.	12.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	11	112.	122.545	235.	50.	3882.073	62.306	53.	68.	150.	232.
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	11	1080.	2130.	8250.	540.	5780400.	2404.246	546.	620.	2470.	7574.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	2	240.	240.	250.	230.	200.	14.142	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	900.	900.	900.	900.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	9	960.	1300.	5000.	20.	2277125.	1509.015	20.	285.	1550.	5000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	9	2.982	2.729	3.699	1.301	0.65	0.806	1.301	2.105	3.179	3.699
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			535.43								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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Annual Analysis for 1981 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	4	7.1	7.05	14.	0.	48.677	6.977	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	3350.	9191.077	40000.	954.	126151348.41	11231.712	1252.4	2615.	12050.	33560.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	10	5.35	32.87	200.	3.	3799.291	61.638	3.05	4.25	41.25	186.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	10	270.	307.3	525.	175.	13098.456	114.448	177.5	209.75	397.5	514.5
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	1	9.6	9.6	9.6	9.6	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	10	6.5	6.53	6.8	6.2	0.036	0.189	6.22	6.4	6.7	6.79
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	10	6.5	6.493	6.8	6.2	0.037	0.193	6.22	6.4	6.7	6.79
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	10	0.316	0.321	0.631	0.158	0.021	0.143	0.163	0.2	0.398	0.608
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	10	20.5	21.7	32.	15.	37.122	6.093	15.1	16.	27.	31.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	10	217.	222.6	370.	114.	6826.711	82.624	116.	150.5	295.	363.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	10	0.16	0.169	0.29	0.1	0.005	0.068	0.101	0.11	0.2	0.29
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	10	0.004	0.008	0.032	0.001	0.	0.01	0.001	0.002	0.015	0.03
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	10	0.64	0.686	1.13	0.45	0.041	0.202	0.455	0.538	0.798	1.102
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	10	0.04	0.081	0.3	0.01	0.009	0.096	0.011	0.02	0.133	0.29
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	10	101.	113.7	195.	75.	1386.456	37.235	75.3	87.	140.75	190.1
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	9	28.	31.311	54.1	15.	151.154	12.294	15.	21.	39.3	54.1
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	9	7.	8.822	15.	4.5	13.224	3.637	4.5	6.2	12.3	15.
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	10	7.	7.4	14.	3.	10.267	3.204	3.2	5.	9.25	13.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	10	79.	104.7	205.	50.	2642.678	51.407	51.	67.5	145.5	199.5
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	10	610.	2843.	13190.	260.	20730690.	4553.097	270.	450.	4170.	12795.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	2	260.	260.	380.	140.	28800.	169.706	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	7	350.	1594.643	6000.	12.5	5153742.56	2270.186	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	7	2.544	2.579	3.778	1.097	0.913	0.955	**	**	**	**

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Annual Analysis for 1981 - Station FRHI0045

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 =			379.139								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	10	0.	0.6	6.	0.	3.6	1.897	0.	0.	0.	5.4

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Annual Analysis for 1982 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	16	2865.	4896.25	17500.	1400.	26276625.	5126.073	1477.	1630.	4955.	14840.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	4	13.5	24.25	66.	4.	796.25	28.218	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	13	380.	373.385	680.	200.	22963.923	151.539	202.	240.	417.5	667.6
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	6	6.975	6.95	7.2	6.7	0.038	0.195	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	6	6.974	6.914	7.2	6.7	0.04	0.199	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	6	0.106	0.122	0.2	0.063	0.003	0.055	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	13	6.5	6.562	7.3	6.2	0.081	0.284	6.24	6.4	6.65	7.14
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	13	6.5	6.496	7.3	6.2	0.086	0.293	6.24	6.4	6.65	7.14
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	13	0.316	0.319	0.631	0.05	0.024	0.153	0.08	0.225	0.398	0.579
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	13	22.	22.846	48.	15.	70.474	8.395	15.4	16.5	24.	39.6
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	13	242.	234.769	444.	110.	10653.026	103.213	115.6	149.	309.	412.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.11	0.122	0.22	0.03	0.004	0.064	0.034	0.065	0.185	0.212
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.008	0.009	0.02	0.001	0.	0.006	0.001	0.004	0.014	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.54	0.571	0.85	0.4	0.017	0.129	0.428	0.48	0.685	0.802
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	13	0.05	0.047	0.08	0.02	0.	0.015	0.024	0.04	0.055	0.072
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	13	110.	114.	199.	65.	1525.333	39.056	69.	79.	139.	184.6
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	13	32.	46.554	218.	18.	2782.293	52.747	19.2	24.8	40.75	155.56
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	13	7.8	18.131	90.	5.4	596.239	24.418	5.44	6.3	15.7	73.2
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	13	8.	7.308	15.	4.	7.897	2.81	4.4	5.	8.	12.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	13	105.	113.692	260.	60.	3336.897	57.766	60.	63.5	147.5	218.4
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	13	600.	968.462	3270.	290.	711114.103	843.276	294.	400.	1260.	2750.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	2	335.	335.	420.	250.	14450.	120.208	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	11	30.	35.909	80.	5.	434.091	20.835	8.	20.	50.	76.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	390.	390.	390.	390.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	14	625.	874.107	4000.	12.5	1270022.699	1126.953	18.75	50.	1150.	3250.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	14	2.796	2.5	3.602	1.097	0.597	0.772	1.247	1.699	3.06	3.5
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			316.209								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	13	0.	0.615	8.	0.	4.923	2.219	0.	0.	0.	4.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	9	1.3	2.756	10.	0.5	8.798	2.966	0.5	1.2	3.5	10.

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Annual Analysis for 1983 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	15	2570.	6712.133	22700.	992.	52818153.981	7267.61	1026.8	1150.	13000.	19940.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	13	275.	350.077	750.	200.	29821.577	172.689	200.	222.	460.	690.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	9	7.	6.833	7.5	5.	0.565	0.752	5.	6.7	7.35	7.5
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	9	7.	5.918	7.5	5.	1.507	1.228	5.	6.7	7.35	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	9	0.1	1.207	10.	0.032	10.877	3.298	0.032	0.047	0.2	10.
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	13	6.5	6.538	7.1	6.1	0.109	0.331	6.14	6.2	6.85	7.02

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Annual Analysis for 1983 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	13	6.5	6.433	7.1	6.1	0.121	0.348	6.14	6.2	6.85	7.02
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	13	0.316	0.369	0.794	0.079	0.059	0.244	0.098	0.142	0.631	0.729
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	13	18.	20.692	46.	11.	81.231	9.013	11.	16.	25.	38.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	13	208.	254.538	522.	154.	16695.103	129.21	154.8	159.	296.	520.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.15	0.174	0.4	0.06	0.009	0.097	0.06	0.105	0.24	0.352
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.01	0.011	0.022	0.004	0.	0.005	0.005	0.007	0.015	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.64	0.619	0.84	0.39	0.015	0.123	0.39	0.575	0.675	0.796
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	13	0.08	0.242	0.92	0.01	0.108	0.329	0.014	0.04	0.37	0.912
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	13	101.	125.385	258.	75.	2955.756	54.367	77.	86.5	166.	228.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	13	32.	34.331	65.3	20.9	180.664	13.441	20.98	23.85	43.15	60.1
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	13	6.4	7.938	16.7	1.	17.029	4.127	2.6	5.5	10.8	15.42
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	13	6.	7.846	22.	4.	23.474	4.845	4.4	5.	8.	18.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	13	90.	128.077	280.	64.	4707.744	68.613	67.2	80.	170.	262.
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	2	6.	6.	10.	2.	32.	5.657	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	13	430.	1263.077	5150.	90.	2919506.41	1708.656	90.	130.	1980.	4798.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	3	230.	230.	230.	230.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	6	30.	30.	60.	10.	280.	16.733	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	3	280.	593.333	1400.	100.	496133.333	704.367	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	200.	871.667	4600.	12.5	2104909.47	1450.831	12.5	31.25	1380.	4060.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2.287	2.284	3.663	1.097	0.757	0.87	1.097	1.473	3.079	3.598
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			192.483								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	13	0.	6.	38.	0.	133.333	11.547	0.	0.	8.	31.6
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	13	3.	10.838	51.	1.2	260.124	16.128	1.24	1.4	17.2	44.2

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Annual Analysis for 1984 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	11.15	14.025	28.	4.	74.698	8.643	4.	6.	22.25	27.4
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	15	3820.	8602.667	37400.	1010.	95697949.524	9782.533	1400.	1990.	14200.	25700.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	267.5	300.417	435.	200.	6715.72	81.949	207.5	236.25	397.5	427.5
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	11	10.1	9.4	13.1	5.4	8.924	2.987	5.4	6.2	12.4	12.96
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	9	6.4	6.356	7.	5.9	0.14	0.375	5.9	6.	6.65	7.
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	9	6.4	6.233	7.	5.9	0.157	0.396	5.9	6.	6.65	7.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	9	0.398	0.585	1.259	0.1	0.17	0.412	0.1	0.237	1.	1.259
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.7	6.65	7.2	6.2	0.07	0.265	6.26	6.425	6.8	7.08
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.7	6.58	7.2	6.2	0.075	0.274	6.26	6.425	6.8	7.08
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.2	0.263	0.631	0.063	0.024	0.156	0.092	0.158	0.378	0.561
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	22.	21.917	30.	15.	18.083	4.252	15.6	19.25	24.	29.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	221.	215.833	352.	45.	9597.242	97.966	49.8	154.5	292.5	341.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.135	0.208	0.98	0.1	0.06	0.244	0.103	0.12	0.168	0.74
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.011	0.014	0.032	0.004	0.	0.009	0.005	0.006	0.023	0.03
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.585	0.594	0.73	0.48	0.008	0.088	0.483	0.52	0.68	0.721
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.07	0.122	0.67	0.01	0.031	0.177	0.016	0.053	0.125	0.514
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	96.	107.25	180.	70.	1258.205	35.471	71.8	77.	137.5	172.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	26.45	26.808	46.	0.	211.65	14.548	0.93	22.1	40.675	45.7
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	6.85	7.808	12.1	5.2	5.974	2.444	5.35	5.85	10.35	11.92
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	12	8.	7.75	11.	3.	4.205	2.05	3.9	7.	9.	10.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	96.	114.833	177.	56.	1881.424	43.375	60.2	90.25	166.5	176.7
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1 ##	40.	40.	40.	40.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	530.	1141.667	4160.	220.	2004015.152	1415.632	253.	375.	1122.5	4136.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**

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Annual Analysis for 1984 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1 ##	70.	70.	70.	70.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	600.	600.	600.	600.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2450.	5280.833	20000.	60.	51481571.97	7175.066	72.	382.5	5750.	20000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	3.378	3.226	4.301	1.778	0.684	0.827	1.845	2.53	3.758	4.301
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1684.016								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	12	0.	5.	46.	0.	182.909	13.524	0.	0.	0.	36.4
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	6.	16.8	118.	2.3	1034.724	32.167	2.78	4.35	12.525	87.76

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Annual Analysis for 1985 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	10	17.	14.8	24.5	2.	72.289	8.502	2.	6.125	22.5	24.45
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	12	6250.	8261.667	31900.	1520.	67849596.97	8237.087	1526.	2727.5	9552.5	26200.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	315.	341.5	600.	165.	18669.727	136.637	171.	252.5	469.75	576.
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	10	6.7	6.75	7.	6.6	0.018	0.135	6.61	6.7	6.775	7.
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	10	6.7	6.733	7.	6.6	0.019	0.137	6.61	6.7	6.775	7.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	10	0.2	0.185	0.251	0.1	0.002	0.048	0.1	0.175	0.2	0.246
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.45	6.442	6.9	6.	0.077	0.278	6.03	6.225	6.675	6.87
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.447	6.364	6.9	6.	0.084	0.29	6.03	6.225	6.675	6.87
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.357	0.433	1.	0.126	0.071	0.267	0.136	0.212	0.599	0.938
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	24.	23.583	32.	13.	33.72	5.807	13.3	20.5	28.	31.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	239.	259.333	460.	138.	9342.061	96.654	138.	202.	333.	435.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.115	0.132	0.26	0.06	0.004	0.061	0.063	0.08	0.185	0.242
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.01	0.011	0.022	0.006	0.	0.005	0.006	0.007	0.012	0.021
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.595	0.632	0.89	0.53	0.012	0.107	0.533	0.555	0.685	0.854
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.06	0.062	0.12	0.03	0.001	0.024	0.033	0.043	0.078	0.108
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	112.5	119.083	205.	60.	2065.72	45.45	60.	86.75	157.5	195.7
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	30.45	32.75	64.9	15.9	178.215	13.35	15.93	24.575	39.6	58.54
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	8.85	8.692	12.8	4.	9.541	3.089	4.27	5.95	11.775	12.77
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	12	7.	8.	16.	3.	13.636	3.693	3.6	5.25	10.	15.1
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	116.	130.667	242.	53.	4036.424	63.533	57.2	88.25	183.5	240.8
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	675.	880.833	2720.	170.	441299.242	664.304	239.	495.	1182.5	2261.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	2 ##	87.5	87.5	150.	25.	7812.5	88.388	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	2	545.	545.	770.	320.	101250.	318.198	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	210.	787.5	4900.	20.	2027402.273	1423.869	29.	100.	830.	4060.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2.322	2.399	3.69	1.301	0.454	0.673	1.42	2.	2.876	3.58
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			250.431								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	12	0.	1.167	8.	0.	5.424	2.329	0.	0.	2.	6.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	6.9	10.683	39.	1.3	104.516	10.223	1.6	5.45	12.075	33.3

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Annual Analysis for 1986 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	9	19.	17.711	26.	8.2	32.939	5.739	8.2	12.55	22.5	26.
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	5050.	9747.692	42400.	1610.	142081369.231	11919.789	1610.	2590.	11470.	36000.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	320.5	333.833	535.	139.	15322.152	123.783	164.8	229.25	438.	528.1
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	6	9.1	9.35	11.3	8.1	1.391	1.179	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	9	6.8	6.711	7.	6.3	0.039	0.196	6.3	6.6	6.8	7.
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	9	6.8	6.667	7.	6.3	0.041	0.202	6.3	6.6	6.8	7.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	9	0.158	0.215	0.501	0.1	0.014	0.118	0.1	0.158	0.251	0.501
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.25	6.375	7.6	5.9	0.233	0.483	5.93	6.	6.65	7.36
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.247	6.217	7.6	5.9	0.26	0.51	5.93	6.	6.65	7.36
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.566	0.607	1.259	0.025	0.161	0.401	0.065	0.229	1.	1.181
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	29.	28.333	40.	12.	58.061	7.62	14.4	23.	33.5	38.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	228.	249.167	396.	108.	10375.606	101.861	115.8	161.	357.5	393.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.115	0.111	0.18	0.03	0.002	0.041	0.042	0.078	0.128	0.177
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.011	0.011	0.02	0.004	0.	0.004	0.005	0.009	0.014	0.019
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.555	0.561	0.93	0.37	0.028	0.167	0.376	0.41	0.63	0.882
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.055	0.063	0.11	0.02	0.001	0.027	0.023	0.05	0.085	0.107
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	128.	124.083	189.	46.	1961.902	44.293	56.8	84.25	160.75	185.7
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	28.2	33.4	55.8	14.4	169.967	13.037	16.41	24.5	46.85	53.97
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	8.05	8.675	13.7	3.1	10.671	3.267	3.91	6.25	12.	13.46
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	12	8.	8.	11.	4.	5.273	2.296	4.	7.	9.75	11.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	111.5	122.167	218.	46.	3138.515	56.022	52.	76.25	166.25	215.6
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	1110.	1603.333	5240.	340.	2205133.333	1484.969	397.	740.	1587.5	4865.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	420.	420.	420.	420.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	280.	572.5	1900.	20.	423802.273	651.001	20.	110.	800.	1870.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2.446	2.423	3.279	1.301	0.432	0.657	1.301	2.003	2.903	3.272
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			264.642								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	12	0.	5.333	30.	0.	80.242	8.958	0.	0.	9.5	24.6
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	17.	28.533	143.	2.2	1637.133	40.462	3.25	6.875	23.	121.7

** - 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 1987 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	13.	15.667	29.	4.	98.015	9.9	4.	6.5	26.	28.7
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	15	4240.	6023.6	17700.	251.	29464239.4	5428.097	251.	1890.	9520.	16860.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	345.	384.5	645.	200.	21738.455	147.44	215.	275.	520.	634.2
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	12	9.9	10.117	13.	7.4	4.176	2.044	7.43	8.525	12.375	12.85
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.3	7.283	7.9	6.6	0.207	0.455	6.6	6.875	7.675	7.87
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.289	7.07	7.9	6.6	0.257	0.507	6.6	6.875	7.675	7.87
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	12	0.051	0.085	0.251	0.013	0.008	0.088	0.014	0.021	0.139	0.251
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.5	6.508	7.	6.1	0.066	0.257	6.13	6.325	6.725	6.94
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.5	6.443	7.	6.1	0.071	0.266	6.13	6.325	6.725	6.94
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.316	0.36	0.794	0.1	0.04	0.2	0.118	0.198	0.475	0.745
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	22.	26.167	42.	18.	76.697	8.758	18.	20.5	33.5	42.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	249.	273.5	488.	150.	12827.727	113.26	153.6	182.5	358.	477.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.125	0.131	0.22	0.05	0.003	0.051	0.056	0.1	0.158	0.217
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.01	0.01	0.02	0.004	0.	0.005	0.004	0.006	0.014	0.019
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.635	0.63	0.74	0.5	0.005	0.073	0.518	0.568	0.678	0.737
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.055	0.053	0.07	0.02	0.	0.016	0.026	0.04	0.07	0.07

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Annual Analysis for 1987 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	110.5	129.917	216.	69.	2497.174	49.972	73.2	89.75	176.75	211.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	31.35	36.508	57.7	19.4	182.11	13.495	20.63	26.1	50.75	57.1
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	8.6	9.775	16.7	5.5	14.273	3.778	5.8	6.625	13.625	16.07
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	12	9.5	10.083	18.	5.	11.356	3.37	5.9	8.	11.	16.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	129.	146.	300.	63.	5979.818	77.329	64.2	76.	216.25	283.5
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	13	680.	800.	1920.	250.	237983.333	487.835	310.	420.	1095.	1712.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	1	150.	150.	150.	150.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	230.	433.333	1700.	10.	278333.333	527.573	13.	57.5	775.	1520.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	12	2.358	2.263	3.23	1.	0.472	0.687	1.09	1.75	2.866	3.174
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			183.249								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	12	0.	4.833	42.	0.	158.152	12.576	0.	0.	0.	34.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	3.4	7.65	22.	1.4	49.823	7.059	1.67	2.375	13.75	20.65

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

Annual Analysis for 1988 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	11	13.	15.273	29.	1.5	83.118	9.117	2.2	6.5	25.	28.4
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	14	1715.	3492.929	9100.	410.	10131544.995	3183.009	547.	1109.25	6477.5	8835.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	11	1750.	4066.545	11800.	332.	17914716.273	4232.578	364.6	585.	8570.	11306.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	11	11.4	11.873	13.63	10.72	1.199	1.095	10.74	10.87	13.1	13.55
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	2	225.	225.	310.	140.	14450.	120.208	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	9	357.	480.333	1475.	160.	158676.25	398.342	160.	230.5	547.	1475.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	10	9.8	9.9	12.2	8.1	2.231	1.494	8.1	8.4	11.325	12.18
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.3	7.327	8.1	6.1	0.282	0.531	6.28	7.1	7.7	8.06
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.3	6.944	8.1	6.1	0.444	0.666	6.28	7.1	7.7	8.06
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	11	0.05	0.114	0.794	0.008	0.052	0.227	0.009	0.02	0.079	0.655
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	11	6.4	6.518	7.6	6.3	0.138	0.371	6.3	6.3	6.5	7.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	11	6.4	6.439	7.6	6.3	0.145	0.38	6.3	6.3	6.5	7.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	11	0.398	0.364	0.501	0.025	0.019	0.139	0.07	0.316	0.501	0.501
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	22.	34.545	166.	14.	1923.273	43.855	14.4	16.	26.	138.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	11	2.	3.545	8.	1.	8.673	2.945	1.	1.	6.	8.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.13	0.149	0.29	0.07	0.004	0.064	0.076	0.11	0.19	0.278
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.008	0.01	0.016	0.006	0.	0.004	0.006	0.006	0.014	0.016
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.64	0.6	0.75	0.19	0.028	0.167	0.242	0.49	0.73	0.748
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	11	0.05	0.056	0.11	0.03	0.001	0.024	0.03	0.04	0.07	0.104
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	11	1.9	2.073	3.4	1.3	0.468	0.684	1.32	1.5	2.6	3.34
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	146.	142.545	206.	73.	2198.073	46.884	76.	105.	184.	204.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	11	157.	182.909	435.	72.	12337.691	111.075	73.6	106.	263.	406.2
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	11 ##	5.	10.727	36.	5.	86.218	9.285	5.	5.	14.	31.6
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	11	685.	627.	1010.	169.	90123.	300.205	196.4	321.	893.	1010.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	11 ##	2.	3.182	8.	2.	4.564	2.136	2.	2.	5.	7.6
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	11	247.	227.818	296.	115.	3287.564	57.337	121.4	193.	272.	292.6
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	11	26.	29.409	78.	12.5	475.041	21.795	12.5	12.5	43.	73.8
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	11	14.	19.091	49.	5.	287.091	16.944	5.	5.	32.	48.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	11	247.	317.909	713.	140.	31523.491	177.549	143.2	194.	417.	679.6
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	1	40.	40.	40.	40.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	1	1.602	1.602	1.602	1.602	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			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 box-and-whisker plot

Annual Analysis for 1989 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	11.75	13.883	25.	4.8	57.552	7.586	4.86	7.125	22.775	24.85
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	12	8825.	10400.	32800.	1080.	79540327.273	8918.538	1320.	3845.	11875.	29290.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	12	9190.	11035.75	33100.	549.	86583042.205	9305.001	888.3	3995.	14675.	29860.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	12	13.205	13.239	16.26	10.85	2.3	1.517	11.006	12.155	14.05	15.894
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	215.	211.667	410.	110.	8196.97	90.537	110.	130.	270.	371.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	11	260.	249.	355.	155.	3480.2	58.993	160.	214.	275.	349.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	12	11.25	10.8	13.1	7.8	3.435	1.853	7.86	8.925	12.375	13.04
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.55	7.483	8.	7.	0.102	0.319	7.	7.2	7.7	7.94
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.547	7.376	8.	7.	0.114	0.338	7.	7.2	7.7	7.94
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	12	0.028	0.042	0.1	0.01	0.001	0.032	0.012	0.02	0.063	0.1
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	11	7.2	7.009	7.4	6.3	0.149	0.386	6.34	6.6	7.3	7.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	11	7.2	6.837	7.4	6.3	0.181	0.426	6.34	6.6	7.3	7.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	11	0.063	0.146	0.501	0.04	0.022	0.149	0.04	0.05	0.251	0.464
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	26.	26.182	44.	14.	74.764	8.647	14.	22.	28.	42.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	11	16.	24.182	86.	2.	690.764	26.282	2.	4.	42.	79.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.1	0.095	0.18	0.04	0.001	0.038	0.042	0.07	0.11	0.168
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.008	0.009	0.014	0.002	0.	0.004	0.003	0.006	0.012	0.014
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.58	0.568	0.74	0.43	0.007	0.084	0.434	0.54	0.61	0.716
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	11	0.05	0.052	0.12	0.01	0.001	0.029	0.014	0.03	0.07	0.11
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	11	2.	2.2	3.5	1.3	0.5	0.707	1.32	1.7	2.8	3.42
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	110.	107.182	148.	67.	493.564	22.216	71.2	88.	116.	144.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	11	86.	99.455	169.	59.	990.473	31.472	61.4	76.	122.	159.8
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	12 ##	5.	6.083	18.	5.	14.083	3.753	5.	5.	5.	14.1
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	1194.	1672.	5840.	397.	2402295.818	1549.934	420.1	544.	2490.	4919.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	12 ##	2.	2.917	7.	2.	2.992	1.73	2.	2.	4.25	6.4
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	12	233.5	241.583	349.	135.	4019.174	63.397	149.1	197.	274.75	347.5
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	12 ##	12.5	13.792	28.	12.5	20.021	4.474	12.5	12.5	12.5	23.35
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	12	26.5	35.833	75.	5.	503.242	22.433	8.3	18.5	56.25	73.2
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	12	379.5	1074.5	4940.	148.	1952760.091	1397.412	157.3	197.75	1710.	4085.

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Annual Analysis for 1990 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	14.35	13.983	24.9	4.	46.047	6.786	4.6	7.775	18.9	24.63
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	12	8240.	12366.667	32700.	2550.	118281315.152	10875.721	2589.	3790.	19650.	32610.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	12	10205.	12871.667	33600.	1040.	118518415.152	10886.616	1283.	3395.	20680.	32673.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	12	13.36	13.344	16.31	11.09	2.378	1.542	11.195	11.888	14.298	15.935
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	11	190.	251.818	550.	120.	23716.364	154.001	120.	130.	350.	538.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	226.5	272.75	509.	175.	11988.205	109.491	175.6	181.25	353.75	482.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	12	10.35	10.35	12.2	7.9	2.119	1.456	7.96	9.3	11.75	12.14
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.5	7.567	8.7	6.7	0.235	0.485	6.85	7.325	7.675	8.52
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.5	7.357	8.7	6.7	0.283	0.532	6.85	7.325	7.675	8.52
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	12	0.032	0.044	0.2	0.002	0.003	0.052	0.004	0.021	0.048	0.159
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.9	6.958	7.2	6.6	0.026	0.162	6.69	6.9	7.075	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.9	6.929	7.2	6.6	0.027	0.165	6.69	6.9	7.075	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.126	0.118	0.251	0.063	0.002	0.049	0.063	0.085	0.126	0.214
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	28.	33.167	50.	24.	85.424	9.243	24.6	26.5	44.	48.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	4	171.	198.5	308.	144.	5523.667	74.321	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	8	20.	44.25	206.	4.	4523.929	67.26	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.11	0.111	0.14	0.08	0.	0.02	0.08	0.1	0.13	0.137
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.01	0.012	0.024	0.006	0.	0.006	0.006	0.008	0.015	0.023
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.67	0.717	1.09	0.54	0.024	0.154	0.561	0.615	0.825	1.027
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.045	0.065	0.19	0.02	0.004	0.059	0.023	0.03	0.058	0.19

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Annual Analysis for 1990 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.2	2.3	4.4	1.2	0.784	0.885	1.26	1.675	2.575	4.1
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	103.5	117.5	201.	81.	1616.273	40.203	81.6	87.25	144.5	194.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	87.5	111.75	223.	60.	2793.841	52.857	62.4	75.25	149.25	213.1
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	12	11.5	15.417	37.	5.	149.174	12.214	5.	5.	27.75	36.1
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	832.5	2396.417	10500.	414.	12312626.811	3508.935	420.6	525.5	1942.5	10086.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	12 ##	2.	3.417	11.	2.	10.992	3.315	2.	2.	2.	10.7
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	12	209.	229.5	648.	30.	26235.909	161.975	54.3	126.75	236.	579.
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	12 ##	12.5	15.75	35.	12.5	59.25	7.697	12.5	12.5	12.5	33.2
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	12	24.	48.667	135.	5.	2235.515	47.281	6.5	10.25	98.75	129.3
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	12	580.5	1828.5	8480.	239.	8183485.909	2860.679	246.5	445.5	1305.	8126.

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Annual Analysis for 1991 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	13	16.8	15.815	27.8	3.	81.741	9.041	3.08	7.3	25.45	27.28
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	1980.	7428.769	25800.	868.	74067691.692	8606.259	883.2	1090.	14000.	23520.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	12	3860.	9287.917	25400.	365.	93610906.629	9675.273	558.5	1155.	18750.	24590.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	12	10.48	11.042	13.78	9.1	2.851	1.689	9.22	9.51	12.613	13.681
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	13	420.	409.231	750.	150.	49241.026	221.903	158.	180.	650.	730.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	13	482.	456.231	750.	193.	38508.859	196.237	198.2	267.5	637.	726.8
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	13	9.3	9.815	12.9	7.2	4.05	2.012	7.32	8.	11.95	12.74
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	13	7.5	7.483	7.8	7.2	0.037	0.193	7.2	7.29	7.65	7.76
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	13	7.5	7.444	7.8	7.2	0.039	0.197	7.2	7.29	7.65	7.76
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	13	0.032	0.036	0.063	0.016	0.	0.016	0.017	0.023	0.051	0.063
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	13	6.9	6.985	7.7	6.4	0.096	0.311	6.56	6.85	7.1	7.58
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	13	6.9	6.893	7.7	6.4	0.106	0.325	6.56	6.85	7.1	7.58
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	13	0.126	0.128	0.398	0.02	0.008	0.091	0.028	0.079	0.142	0.302
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	13	30.	30.308	44.	22.	39.231	6.263	22.8	26.	33.	42.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	13	316.	327.538	554.	150.	21845.436	147.802	156.4	179.	472.	543.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.115	0.124	0.19	0.07	0.001	0.036	0.073	0.103	0.14	0.187
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.012	0.013	0.022	0.006	0.	0.004	0.007	0.01	0.016	0.02
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	13	0.71	0.711	0.87	0.56	0.009	0.094	0.568	0.64	0.76	0.866
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	13	0.04	0.045	0.17	0.01	0.002	0.04	0.014	0.025	0.045	0.126
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	13	2.1	2.185	3.9	1.1	0.513	0.716	1.3	1.65	2.45	3.58
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	13	152.	156.769	254.	88.	3463.692	58.853	89.6	97.5	207.5	250.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	13	188.	183.308	312.	73.	8475.564	92.063	77.4	90.	279.5	307.6
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	13	10.	10.308	22.	5.	33.564	5.793	5.	5.	14.5	20.
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	13	618.	1004.769	3340.	141.	960401.026	980.001	153.4	261.5	1640.	2904.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	13 ##	2.	2.308	6.	2.	1.231	1.109	2.	2.	2.	4.4
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	13	174.	182.846	379.	43.	11584.641	107.632	51.	83.	275.5	353.
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	13 ##	12.5	13.462	25.	12.5	12.019	3.467	12.5	12.5	12.5	20.
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	13	18.	30.231	109.	5.	910.192	30.169	5.	7.5	51.	89.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	13	446.	603.308	1700.	67.5	333902.356	577.843	67.5	165.5	1014.	1680.

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Annual Analysis for 1992 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	16.25	14.958	24.1	4.5	50.966	7.139	4.65	7.375	21.75	23.71
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	3860.	5125.923	15700.	867.	17017571.077	4125.236	1108.2	1735.	7310.	13256.

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Annual Analysis for 1992 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	10	2985.	5223.9	19600.	819.	34546894.322	5877.661	890.1	2137.5	6135.	18810.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	12	10.	10.367	15.	9.4	2.266	1.505	9.4	9.7	10.45	13.65
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	260.	268.75	460.	140.	8864.205	94.15	147.5	187.5	322.5	439.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	320.5	328.667	490.	189.	6516.788	80.727	213.3	277.25	379.	474.7
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	12	9.75	9.8	12.5	7.9	2.564	1.601	7.93	8.275	11.4	12.35
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.4	7.442	7.7	7.1	0.041	0.202	7.13	7.3	7.675	7.7
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.4	7.399	7.7	7.1	0.043	0.207	7.13	7.3	7.675	7.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	12	0.04	0.04	0.079	0.02	0.	0.019	0.02	0.021	0.05	0.075
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.8	6.817	7.2	6.4	0.071	0.266	6.4	6.65	7.05	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.8	6.742	7.2	6.4	0.077	0.277	6.4	6.65	7.05	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.158	0.181	0.398	0.063	0.013	0.114	0.063	0.091	0.228	0.398
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	28.	30.167	44.	22.	49.061	7.004	22.	24.5	35.5	42.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	218.	230.667	378.	164.	4024.788	63.441	164.6	174.	264.75	355.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	7	3.	5.	14.	1.	26.333	5.132	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.125	0.142	0.23	0.08	0.002	0.049	0.083	0.103	0.178	0.227
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.012	0.011	0.014	0.008	0.	0.002	0.008	0.009	0.014	0.014
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.63	0.636	0.84	0.43	0.012	0.111	0.451	0.585	0.7	0.822
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.03	0.034	0.08	0.02	0.	0.017	0.02	0.02	0.04	0.068
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.	1.875	2.4	1.2	0.148	0.384	1.26	1.5	2.175	2.37
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	106.5	113.333	179.	68.	845.333	29.075	74.3	95.	130.25	168.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	107.5	115.167	188.	59.	1219.97	34.928	68.9	92.25	140.25	179.6
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	12 ##	5.	6.375	15.	0.5	14.415	3.797	1.85	5.	8.75	13.8
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	487.5	741.583	3870.	172.	997767.72	998.883	176.8	372.	641.5	2913.3
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	12	185.	175.833	246.	31.	3307.061	57.507	61.3	144.5	219.25	241.8
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	12 ##	12.5	16.958	35.	12.5	69.657	8.346	12.5	12.5	21.875	33.8
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	12	17.	31.083	100.	5.	938.629	30.637	5.	5.	54.75	87.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	12	282.	591.625	4000.	67.5	1163936.778	1078.859	97.65	206.5	414.5	2933.2

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Annual Analysis for 1993 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	12.6	14.275	26.2	3.	65.209	8.075	3.96	7.05	22.875	25.84
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	13	2840.	8409.846	23200.	758.	82912033.641	9105.605	906.8	1330.	18350.	23120.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	8	14125.	13386.25	24800.	1370.	88511198.214	9408.039	**	**	**	**
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	12	10.8	11.2	13.7	8.9	3.025	1.739	9.02	9.6	13.075	13.64
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	250.	320.	650.	110.	40072.727	200.182	125.	162.5	537.5	650.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	360.5	408.917	712.	211.	33265.538	182.388	219.4	251.75	611.5	700.3
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	12	10.15	9.867	12.2	7.	3.37	1.836	7.15	7.95	11.5	12.14
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.3	7.317	7.6	7.	0.04	0.199	7.	7.2	7.475	7.6
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.3	7.274	7.6	7.	0.042	0.204	7.	7.2	7.475	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	12	0.05	0.053	0.1	0.025	0.001	0.025	0.025	0.034	0.063	0.1
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.8	6.783	7.1	6.4	0.045	0.212	6.43	6.625	6.975	7.07
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.8	6.734	7.1	6.4	0.048	0.219	6.43	6.625	6.975	7.07
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.158	0.184	0.398	0.079	0.009	0.096	0.086	0.106	0.238	0.374
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	27.	31.	56.	22.	93.455	9.667	22.	26.	37.5	50.6
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	234.5	281.417	536.	154.	18760.265	136.968	155.8	165.	422.75	516.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	12	9.	15.25	52.	1.	230.023	15.167	1.	4.25	25.75	44.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.115	0.122	0.23	0.04	0.003	0.053	0.046	0.083	0.155	0.215
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.01	0.01	0.018	0.006	0.	0.003	0.007	0.008	0.01	0.017
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.65	0.717	1.06	0.5	0.033	0.183	0.512	0.56	0.9	1.015
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.03	0.038	0.07	0.02	0.	0.019	0.02	0.023	0.058	0.07
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.05	1.875	2.5	1.4	0.166	0.407	1.4	1.4	2.175	2.44
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	122.5	137.917	246.	73.	3469.538	58.903	74.5	88.25	199.75	237.

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Annual Analysis for 1993 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	125.	147.25	294.	57.	7044.932	83.934	59.4	81.5	236.	286.5
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	12 ##	5.	7.083	15.	5.	14.992	3.872	5.	5.	9.5	14.7
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	545.5	884.833	3280.	95.	873976.333	934.867	118.7	216.5	1506.75	2818.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	12	196.5	168.167	267.	35.	7646.152	87.442	36.8	71.	241.5	262.5
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	12 ##	12.5	14.375	35.	12.5	42.188	6.495	12.5	12.5	12.5	28.25
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	12	23.	23.333	53.	5.	268.061	16.373	5.	5.	35.75	49.4
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	12	404.	681.125	2820.	67.5	592857.369	769.972	105.15	205.75	1020.5	2352.

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Annual Analysis for 1994 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	11	12.8	14.027	26.	2.5	57.468	7.581	3.	8.	22.5	25.4
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	10	4170.	10476.	32400.	1310.	142359248.889	11931.44	1346.	1677.5	21350.	32060.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	11	2350.	8843.455	31900.	718.	130944815.273	11443.112	804.4	1150.	21500.	30480.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	12	10.4	11.293	14.8	9.3	4.62	2.149	9.36	9.505	13.6	14.71
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	11	230.	300.909	600.	150.	21829.091	147.747	152.	190.	390.	578.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	11	308.	380.364	667.	225.	24185.655	155.517	226.	238.	507.	646.
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	11	10.	9.736	13.	7.	3.713	1.927	7.	8.	11.	12.8
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.4	7.364	7.7	7.	0.055	0.234	7.	7.2	7.5	7.68
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.4	7.304	7.7	7.	0.058	0.242	7.	7.2	7.5	7.68
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	11	0.04	0.05	0.1	0.02	0.001	0.028	0.021	0.032	0.063	0.1
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	11	6.5	6.682	7.4	6.4	0.096	0.309	6.42	6.5	6.8	7.34
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	11	6.5	6.609	7.4	6.4	0.102	0.319	6.42	6.5	6.8	7.34
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	11	0.316	0.246	0.398	0.04	0.013	0.113	0.048	0.158	0.316	0.382
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	32.	35.091	50.	24.	98.691	9.934	24.	24.	42.	50.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	11	196.	266.364	496.	142.	16780.655	129.54	142.4	166.	350.	488.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	11	10.	19.727	88.	1.	627.018	25.04	1.	1.	28.	76.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.1	0.104	0.29	0.01	0.005	0.072	0.018	0.05	0.11	0.262
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.01	0.012	0.018	0.006	0.	0.004	0.006	0.01	0.016	0.018
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	11	0.58	0.589	0.8	0.34	0.024	0.155	0.34	0.52	0.7	0.796
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	11	0.04	0.045	0.12	0.02	0.001	0.027	0.022	0.03	0.05	0.106
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	11	2.	2.018	2.6	1.4	0.196	0.442	1.42	1.6	2.4	2.58
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	11	119.	133.909	262.	78.	3124.091	55.894	78.2	88.	167.	243.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	11	111.	132.	269.	63.	4763.	69.014	64.	70.	191.	254.8
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	11 ##	5.	6.727	12.	5.	8.818	2.97	5.	5.	11.	11.8
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	11	983.	1460.727	5980.	263.	2645166.618	1626.397	272.	388.	1910.	5216.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	11 ##	2.	1.636	5.	0.5	1.755	1.325	0.5	0.5	2.	4.4
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	11	167.	167.909	314.	75.	6283.091	79.266	78.6	93.	195.	310.8
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	11 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	11	41.	44.364	87.	16.	762.855	27.62	16.4	19.	80.	86.2
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	11	747.	1166.773	5660.	67.5	2451212.668	1565.635	89.2	301.	1090.	4858.

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Annual Analysis for 1995 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	12	15.25	13.983	26.	2.	69.976	8.365	2.3	6.475	22.625	25.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	3	575.	3148.333	8420.	450.	20846758.333	4565.825	**	**	**	**
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	8	13.535	13.356	16.57	9.82	6.234	2.497	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	280.	255.	410.	100.	11990.909	109.503	103.	142.5	347.5	395.

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Annual Analysis for 1995 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	328.5	365.583	718.	157.	22651.72	150.505	173.2	279.75	458.	658.9
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	12	9.4	9.617	12.8	6.8	4.849	2.202	6.92	7.625	12.125	12.71
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.25	7.267	7.6	6.8	0.061	0.246	6.86	7.05	7.5	7.57
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	12	7.247	7.2	7.6	6.8	0.066	0.256	6.86	7.05	7.5	7.57
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	12	0.057	0.063	0.158	0.025	0.002	0.039	0.027	0.032	0.091	0.141
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.8	6.767	7.	6.4	0.024	0.156	6.46	6.7	6.875	6.97
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.8	6.738	7.	6.4	0.025	0.159	6.46	6.7	6.875	6.97
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.158	0.183	0.398	0.1	0.006	0.079	0.108	0.134	0.2	0.354
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	33.	34.833	54.	22.	87.606	9.36	22.6	28.	41.5	51.6
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	273.	263.833	480.	54.	17652.697	132.863	68.4	142.5	369.5	456.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	12	7.	28.917	136.	1.	1738.992	41.701	1.	1.75	46.	118.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.075	0.094	0.22	0.04	0.003	0.053	0.043	0.055	0.108	0.205
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.012	0.013	0.022	0.006	0.	0.005	0.007	0.01	0.016	0.021
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.67	0.65	0.87	0.28	0.037	0.191	0.325	0.51	0.84	0.864
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.04	0.055	0.14	0.02	0.001	0.032	0.023	0.04	0.07	0.122
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.2	2.217	3.5	1.3	0.462	0.679	1.33	1.65	2.725	3.35
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	110.	120.917	212.	60.	1862.083	43.152	66.3	90.25	154.75	198.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	94.5	116.333	258.	42.	3765.697	61.365	48.	72.25	152.75	237.9
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	492.5	926.75	3330.	81.	1044374.75	1021.947	97.8	203.5	1485.	3051.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	12 ##	0.5	1.	4.	0.5	1.091	1.044	0.5	0.5	1.	3.4
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	12	137.	170.833	387.	53.	10151.242	100.753	58.1	91.	259.	355.5
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	12 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	12	19.5	31.167	90.	5.	873.788	29.56	5.	5.	56.75	84.6
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	12	306.5	631.458	2400.	67.5	489051.657	699.322	67.5	99.125	1038.75	2070.

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Annual Analysis for 1996 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	11	12.5	12.455	23.	2.5	55.023	7.418	2.9	5.	20.5	22.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	9	10090.	9806.667	19500.	1150.	41276100.	6424.648	1150.	3950.	15990.	19500.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	11	150.	190.	390.	100.	8220.	90.664	100.	120.	260.	366.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	12	264.	267.833	380.	135.	6314.697	79.465	147.9	197.25	349.25	375.8
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	11	10.3	9.973	12.4	7.3	3.678	1.918	7.42	7.9	12.	12.36
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.2	7.164	7.3	6.9	0.017	0.129	6.92	7.1	7.3	7.3
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	11	7.2	7.145	7.3	6.9	0.017	0.13	6.92	7.1	7.3	7.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	11	0.063	0.072	0.126	0.05	0.001	0.024	0.05	0.05	0.079	0.121
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	12	6.55	6.6	7.1	6.3	0.049	0.222	6.33	6.425	6.775	7.01
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	12	6.547	6.555	7.1	6.3	0.051	0.227	6.33	6.425	6.775	7.01
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	12	0.284	0.279	0.501	0.079	0.014	0.12	0.103	0.169	0.378	0.47
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	32.	31.167	46.	22.	54.152	7.359	22.6	24.	37.	43.6
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	12	219.	222.583	314.	146.	3618.265	60.152	146.6	165.	274.5	313.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	12	20.	30.583	100.	1.	1069.356	32.701	1.	1.75	58.	89.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.095	0.088	0.18	0.01	0.003	0.056	0.013	0.028	0.128	0.171
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.011	0.012	0.022	0.006	0.	0.005	0.007	0.008	0.014	0.021
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	12	0.545	0.561	0.82	0.35	0.018	0.135	0.368	0.45	0.645	0.796
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	12	0.05	0.051	0.11	0.01	0.001	0.032	0.013	0.02	0.078	0.101
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.	2.15	3.6	1.3	0.534	0.731	1.3	1.5	2.5	3.51
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	12	93.	95.333	142.	48.	910.97	30.182	51.6	73.75	122.75	141.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	12	86.5	79.833	128.	5.	1105.606	33.251	17.6	59.5	100.5	124.7
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	12 ##	5.	7.25	16.	5.	17.841	4.224	5.	5.	9.5	15.7
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	12	2605.	2728.917	6870.	345.	4856014.083	2203.637	426.3	828.	4550.	6606.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	12 ##	1.25	1.75	5.	0.5	2.795	1.672	0.5	0.5	2.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	12	249.	242.083	322.	85.	4097.72	64.013	117.1	211.5	290.5	319.9
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	12 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	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 1996 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	12	60.5	67.917	122.	19.	808.265	28.43	28.6	52.	90.5	118.1
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	12	2000.	1912.5	4140.	189.	2270337.364	1506.764	240.9	474.25	3450.	4128.

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

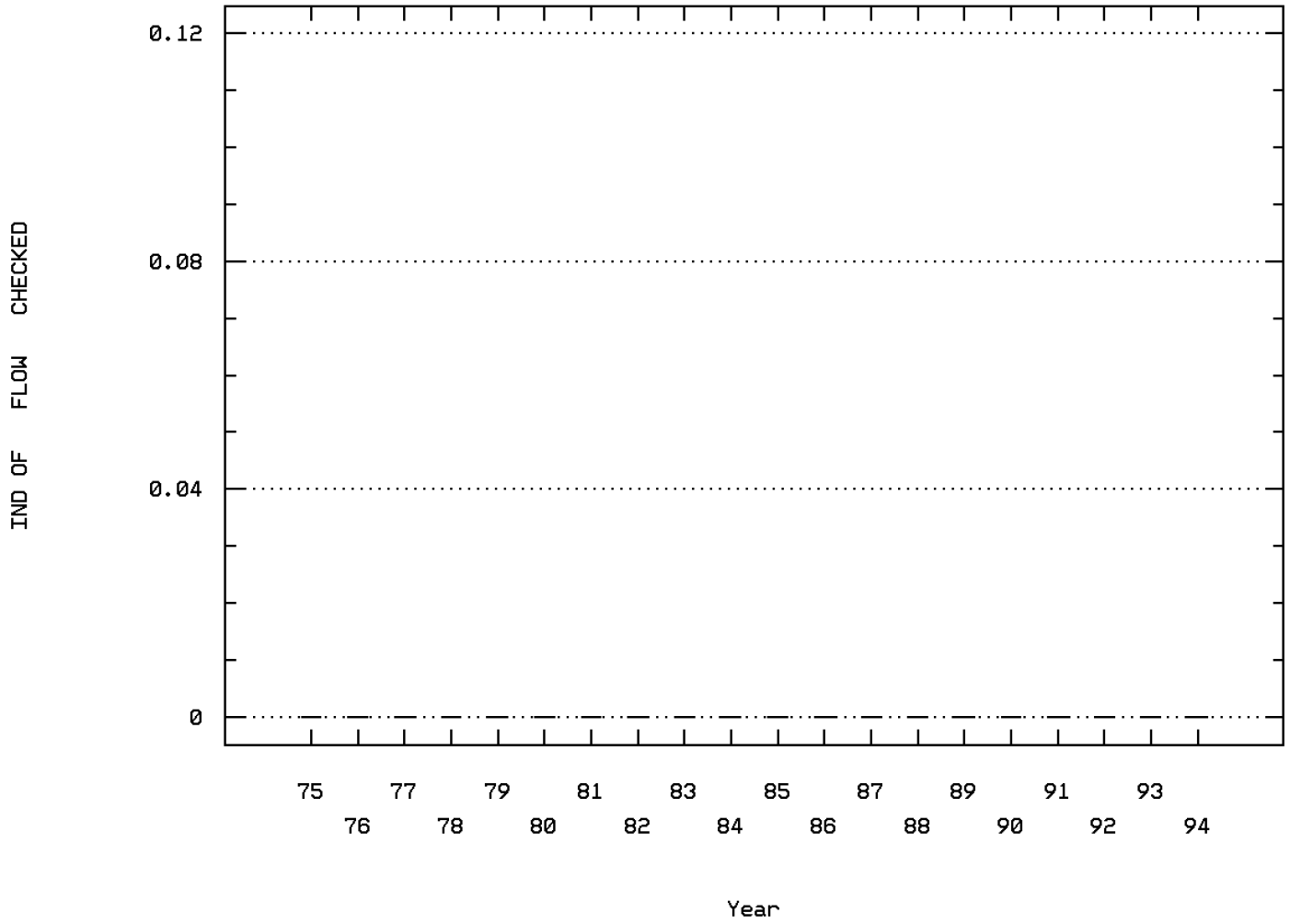
Annual Analysis for 1997 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	7	12.	12.714	25.	4.	58.321	7.637	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	7	160.	158.571	290.	80.	6214.286	78.831	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	7	276.	317.714	472.	167.	14060.905	118.579	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	7	10.	9.957	12.2	7.2	3.42	1.849	**	**	**	**
00400p	PH (STANDARD UNITS)	12/05/75-07/08/97	7	7.1	7.014	7.3	6.7	0.055	0.234	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	7	7.1	6.958	7.3	6.7	0.058	0.242	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	7	0.079	0.11	0.2	0.05	0.004	0.063	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	7	6.6	6.643	6.8	6.5	0.01	0.098	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	7	6.6	6.634	6.8	6.5	0.01	0.098	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	7	0.251	0.232	0.316	0.158	0.003	0.051	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	7	36.	36.857	50.	22.	107.81	10.383	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	7	240.	276.714	636.	16.	41803.571	204.459	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	7	10.	12.286	40.	1.	194.905	13.961	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	7	0.1	0.101	0.17	0.04	0.002	0.039	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	7	0.01	0.012	0.02	0.005	0.	0.006	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	7	0.52	0.534	0.65	0.4	0.007	0.083	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	7	0.02	0.019	0.03	0.01	0.	0.007	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	7	1.6	1.614	2.6	1.2	0.225	0.474	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	7	93.	114.143	189.	61.	2339.476	48.368	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	7	83.	95.571	166.	42.	2144.952	46.314	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	7	858.	1203.429	3010.	343.	854347.952	924.309	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	7 ##	0.5	0.786	2.	0.5	0.321	0.567	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	7	178.	169.857	218.	70.	2283.81	47.789	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	7 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	7	34.	34.857	61.	5.	334.476	18.289	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	7	357.	777.	2700.	140.	850661.333	922.313	**	**	**	**

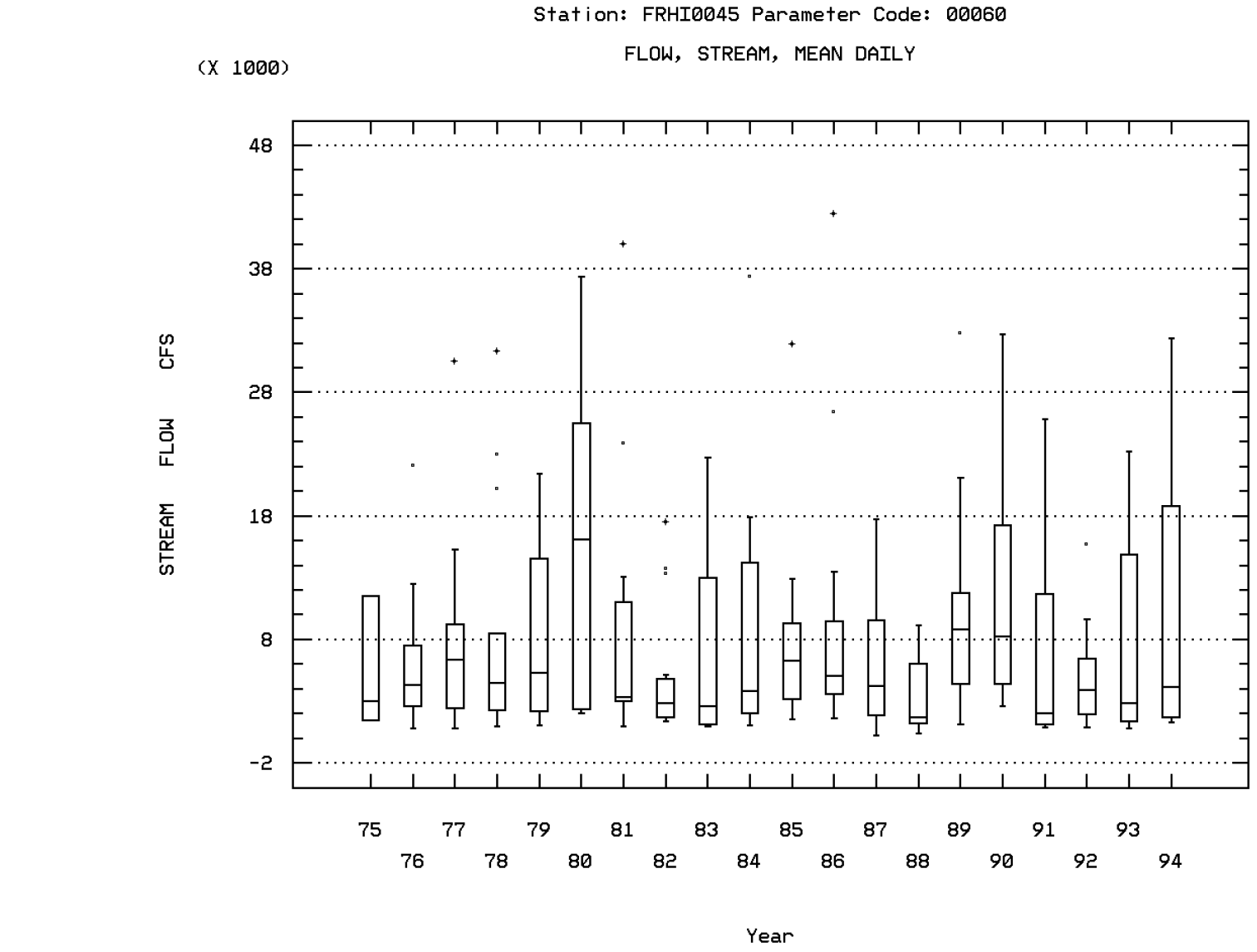
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FRHI0045 Parameter Code: 00057

FLOW, INDICATES IT HAS BEEN CHECKED



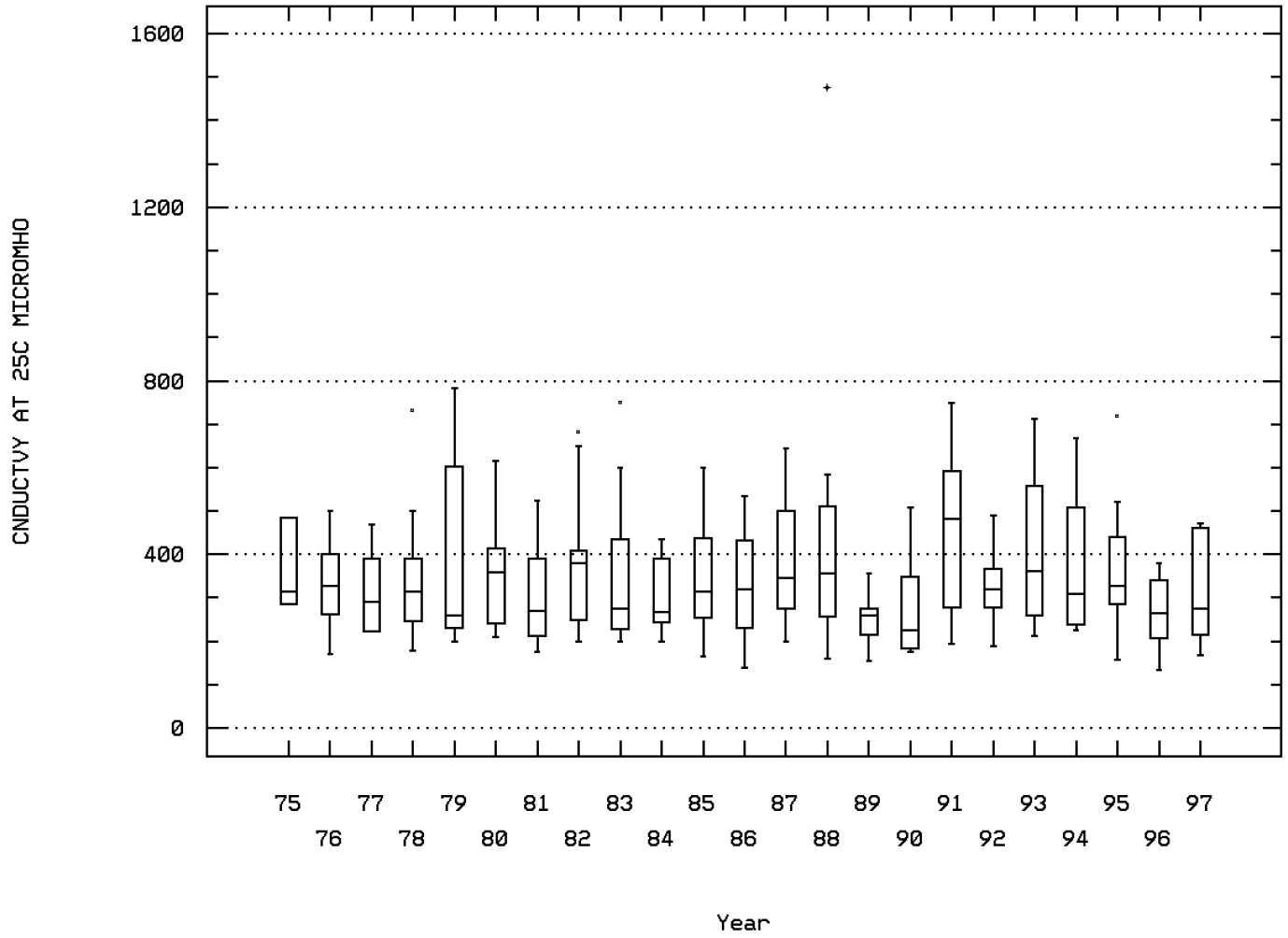
MONONGAHELA RVR-AT LOCK & DAM #8-POINT



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00095

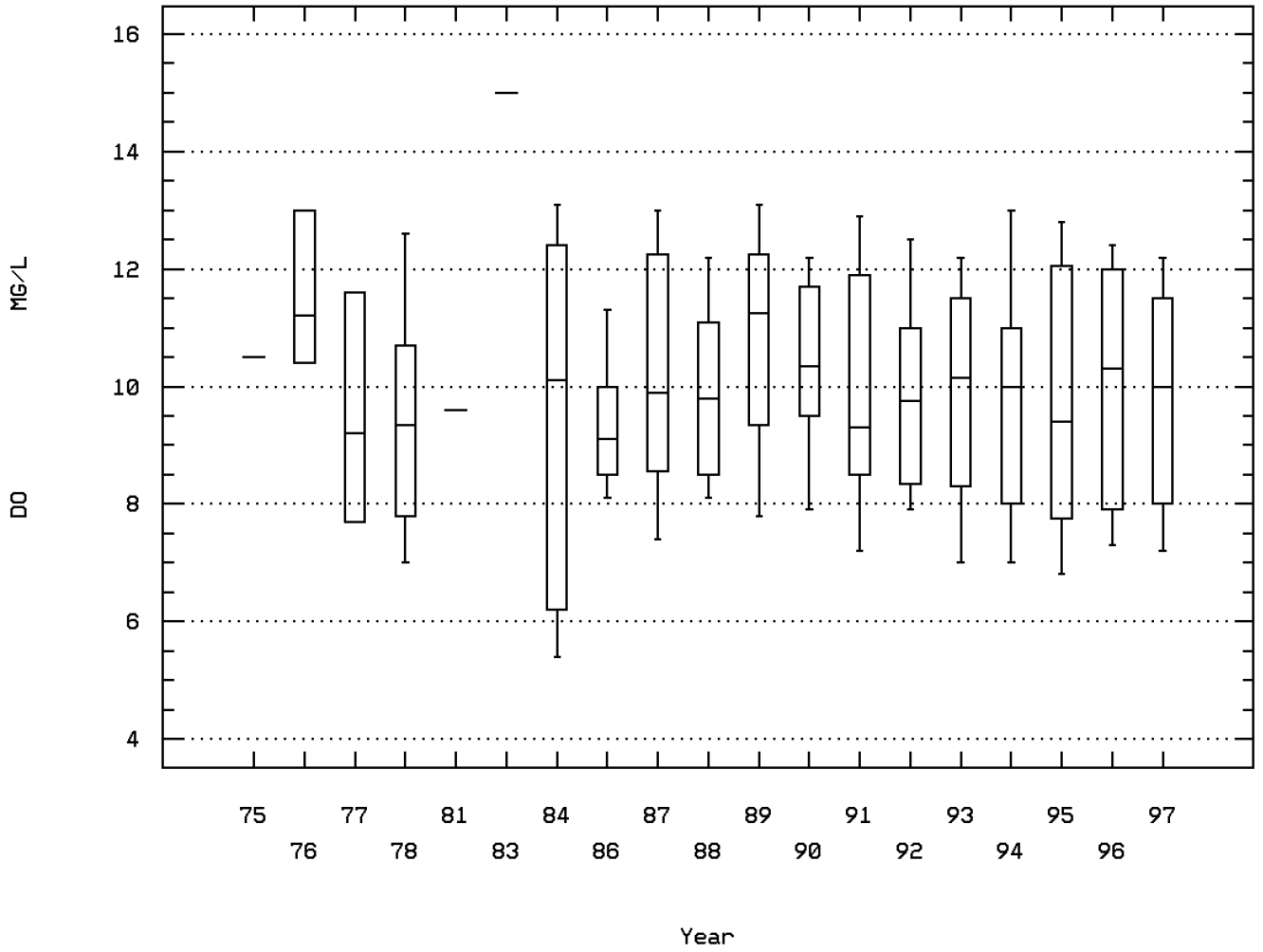
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00300

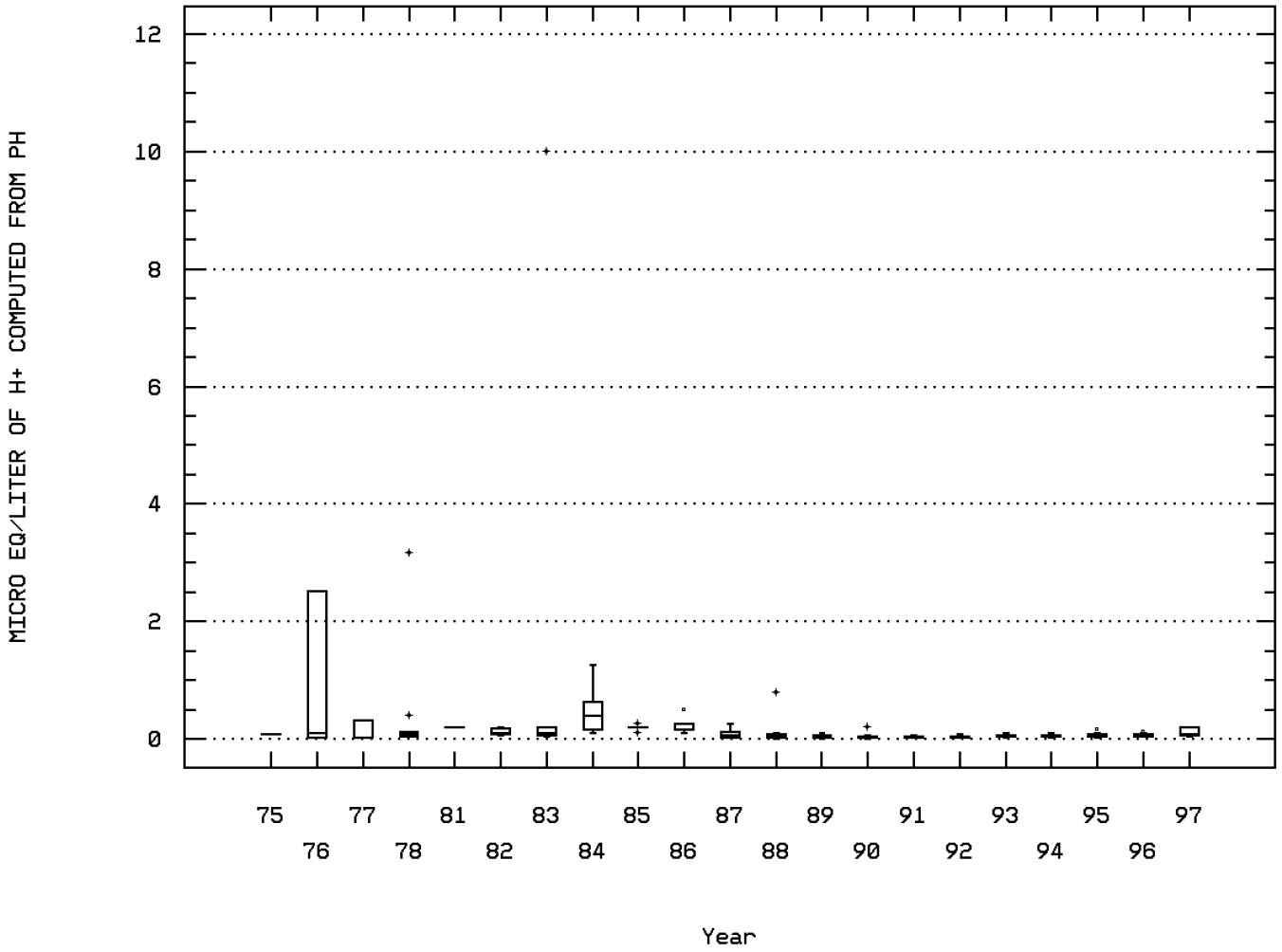
OXYGEN, DISSOLVED



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00400

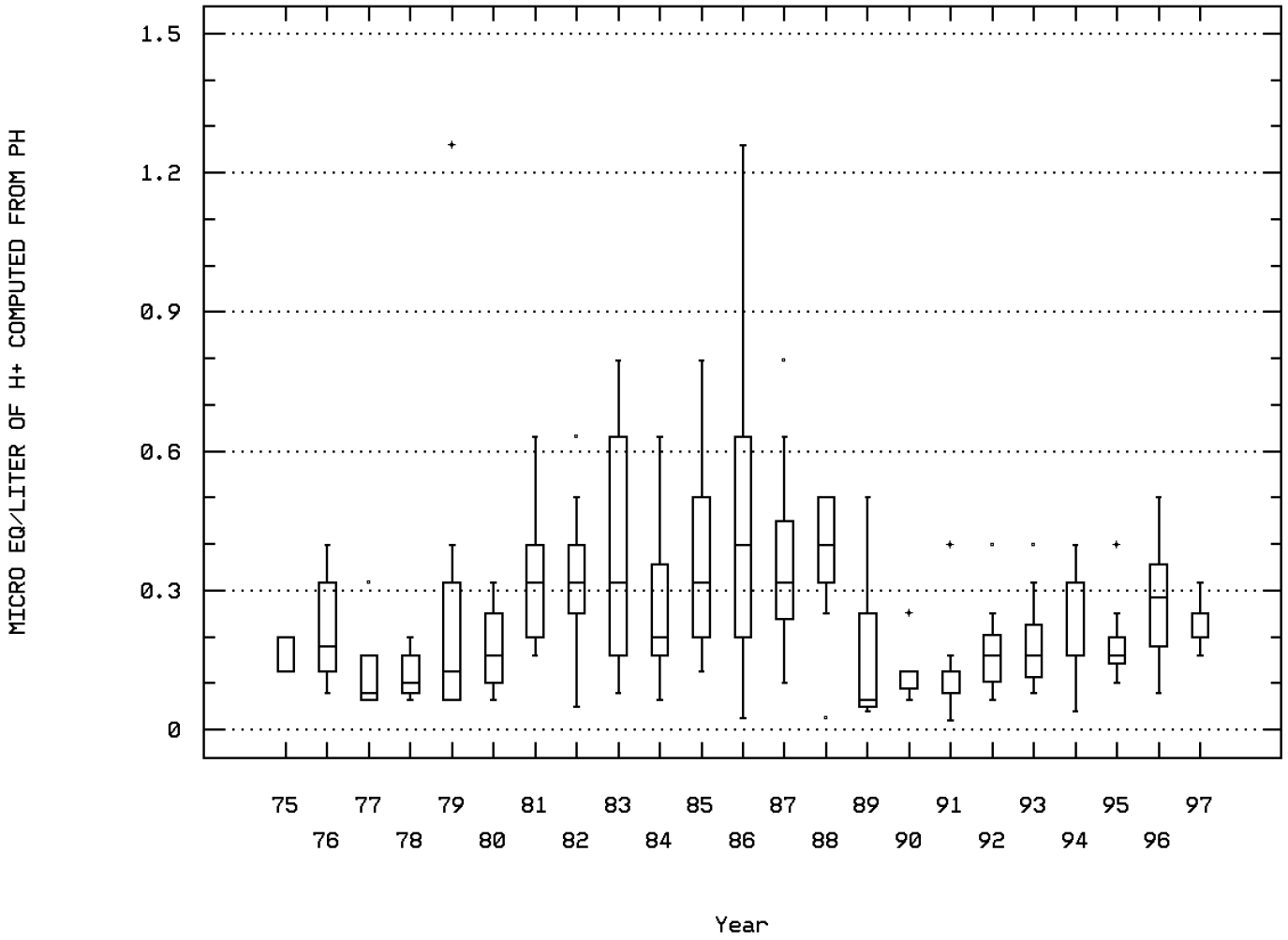
MICRO EQ/LITER OF H+ COMPUTED FROM PH



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00403

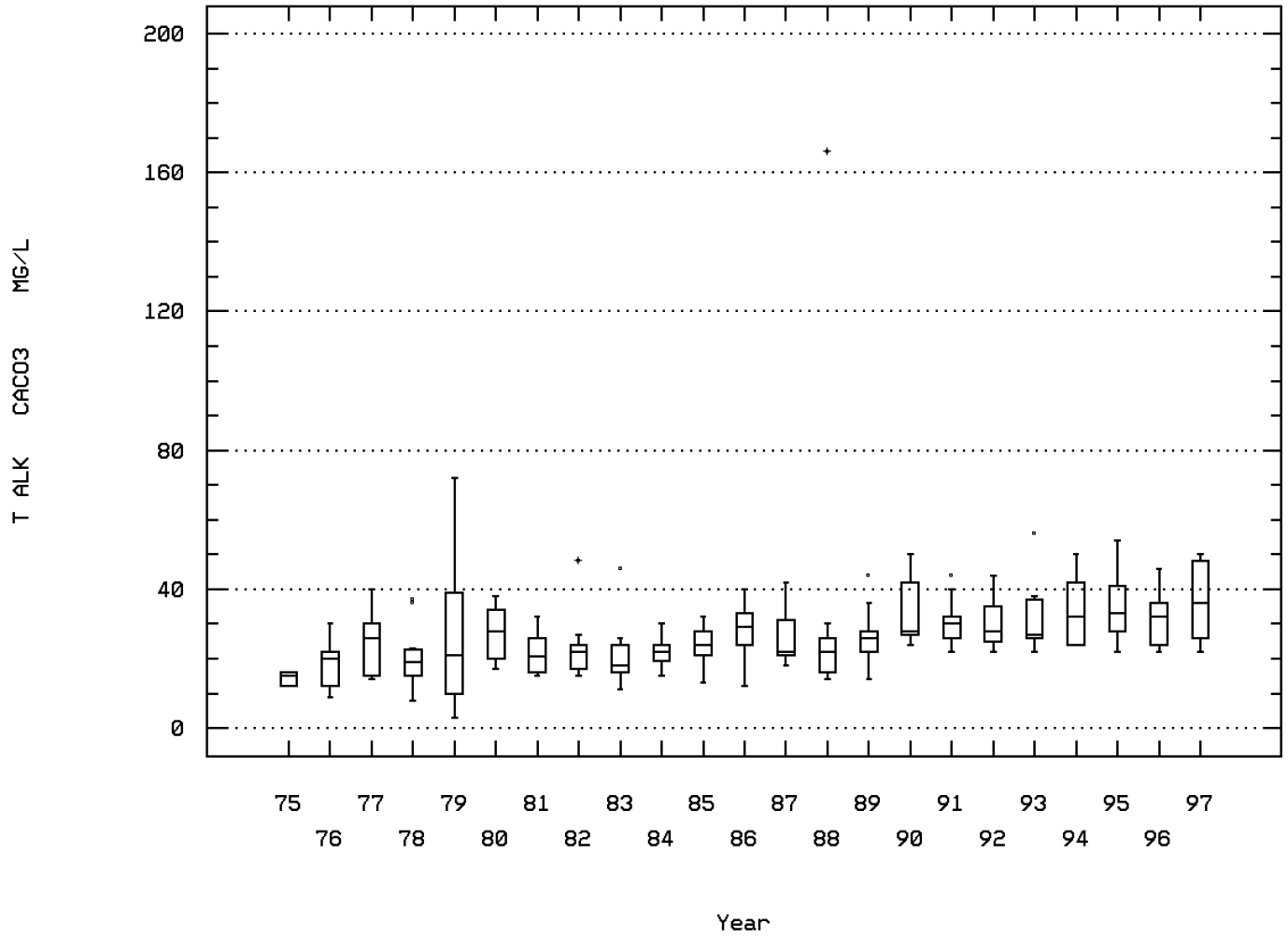
MICRO EQ/LITER OF H+ COMPUTED FROM PH



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00410

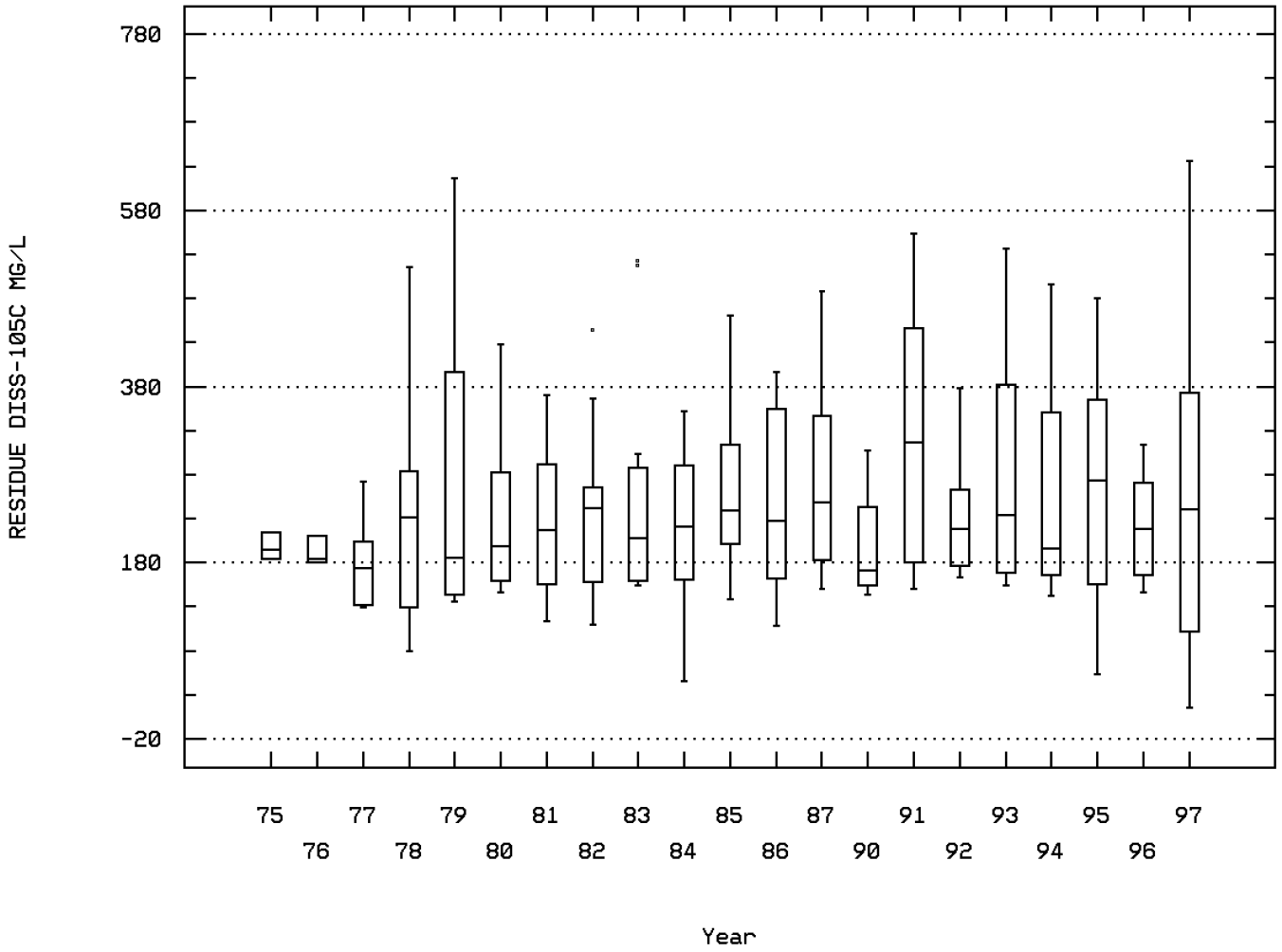
ALKALINITY, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00515

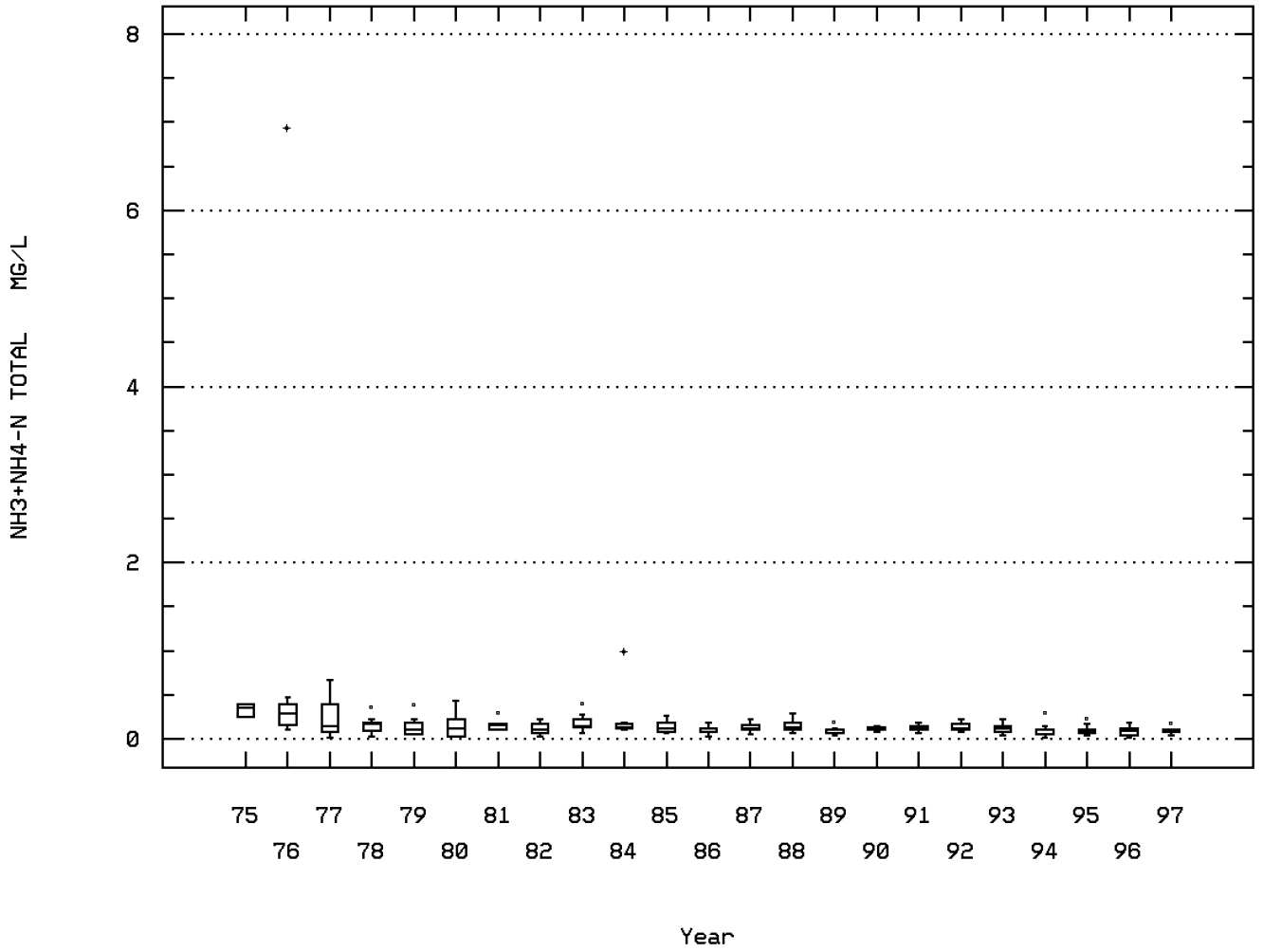
RESIDUE, TOTAL FILTRABLE (DRIED AT 105



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00610

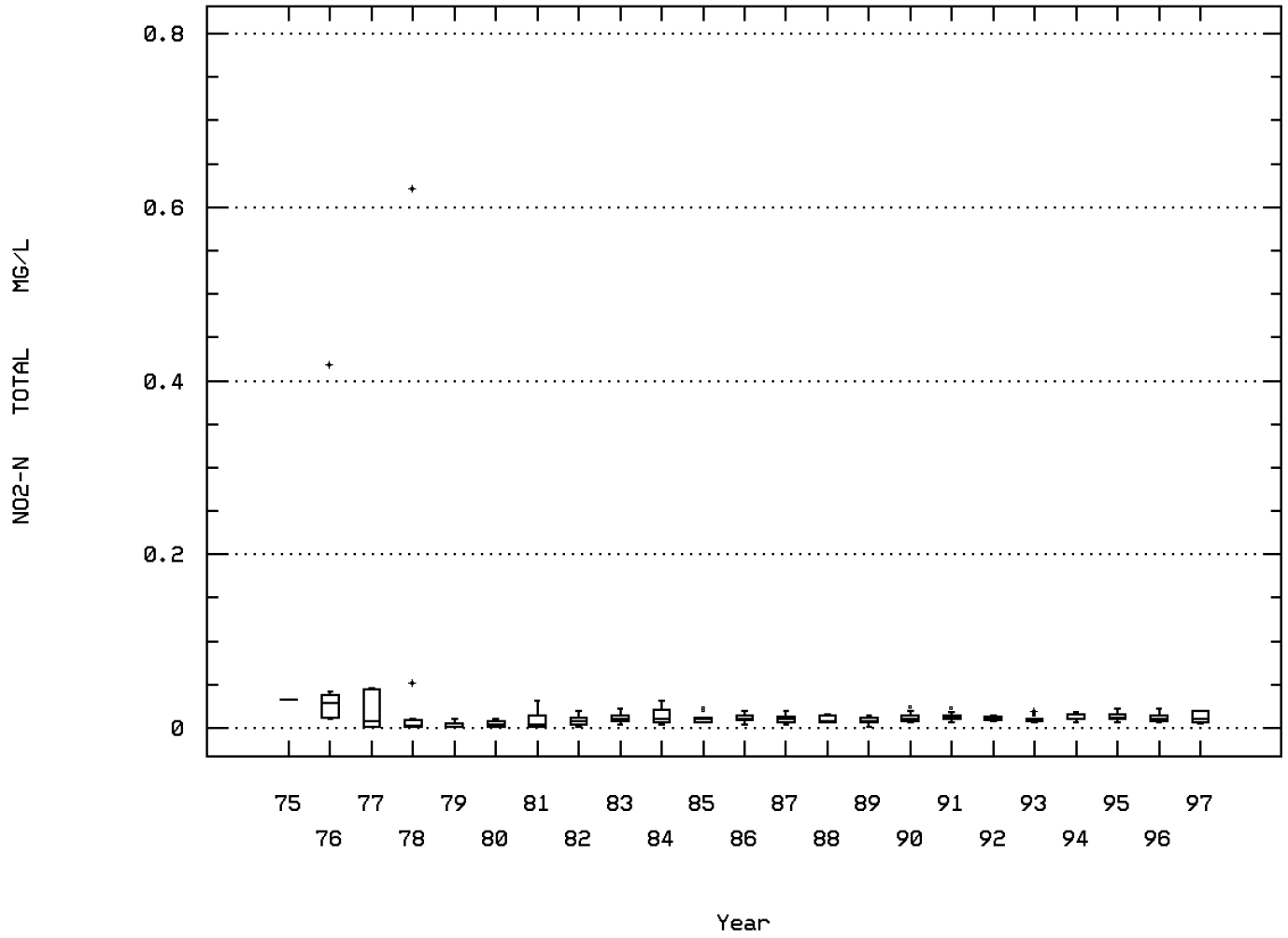
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00615

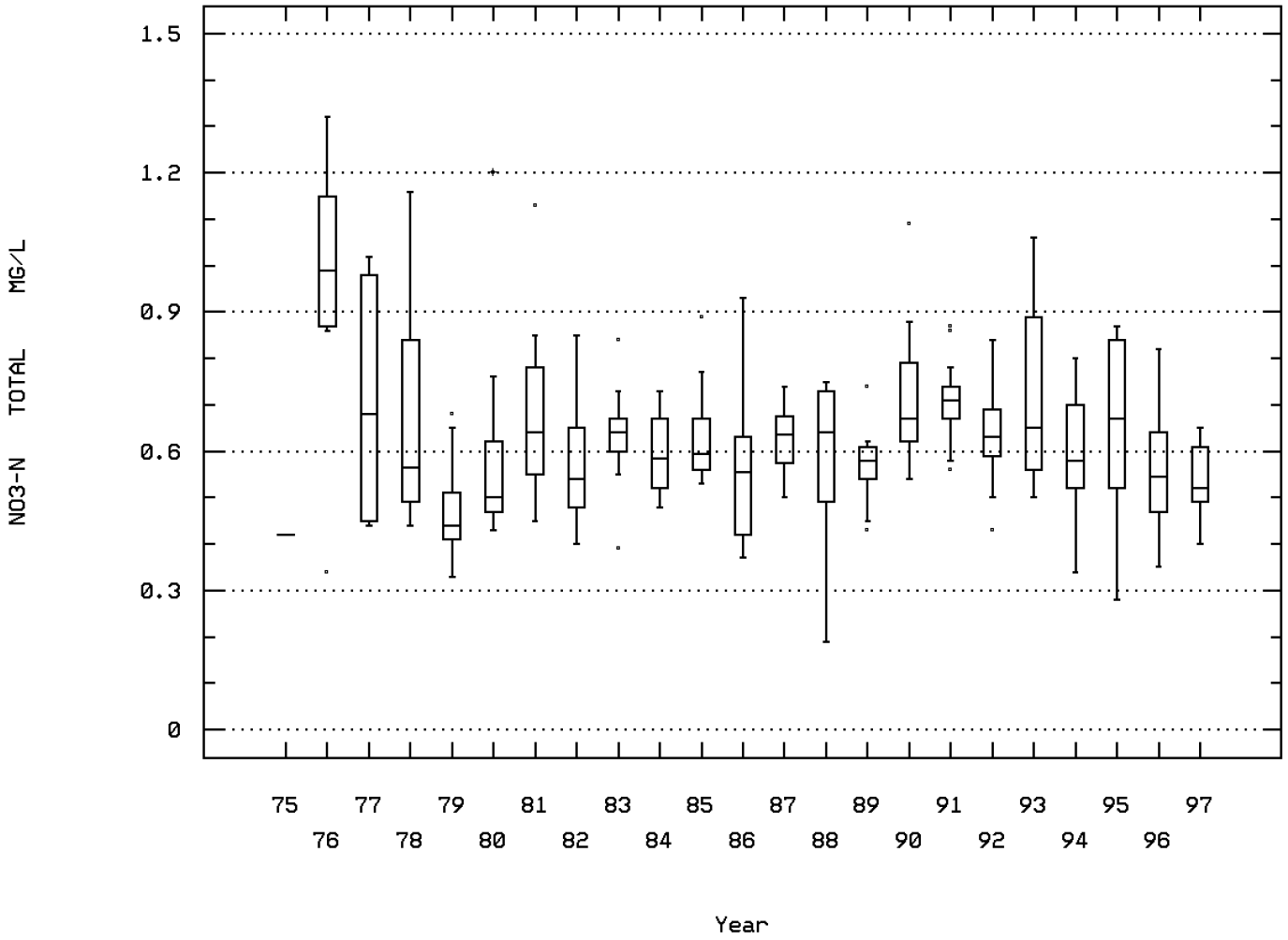
NITRITE NITROGEN, TOTAL (MG/L AS N)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00620

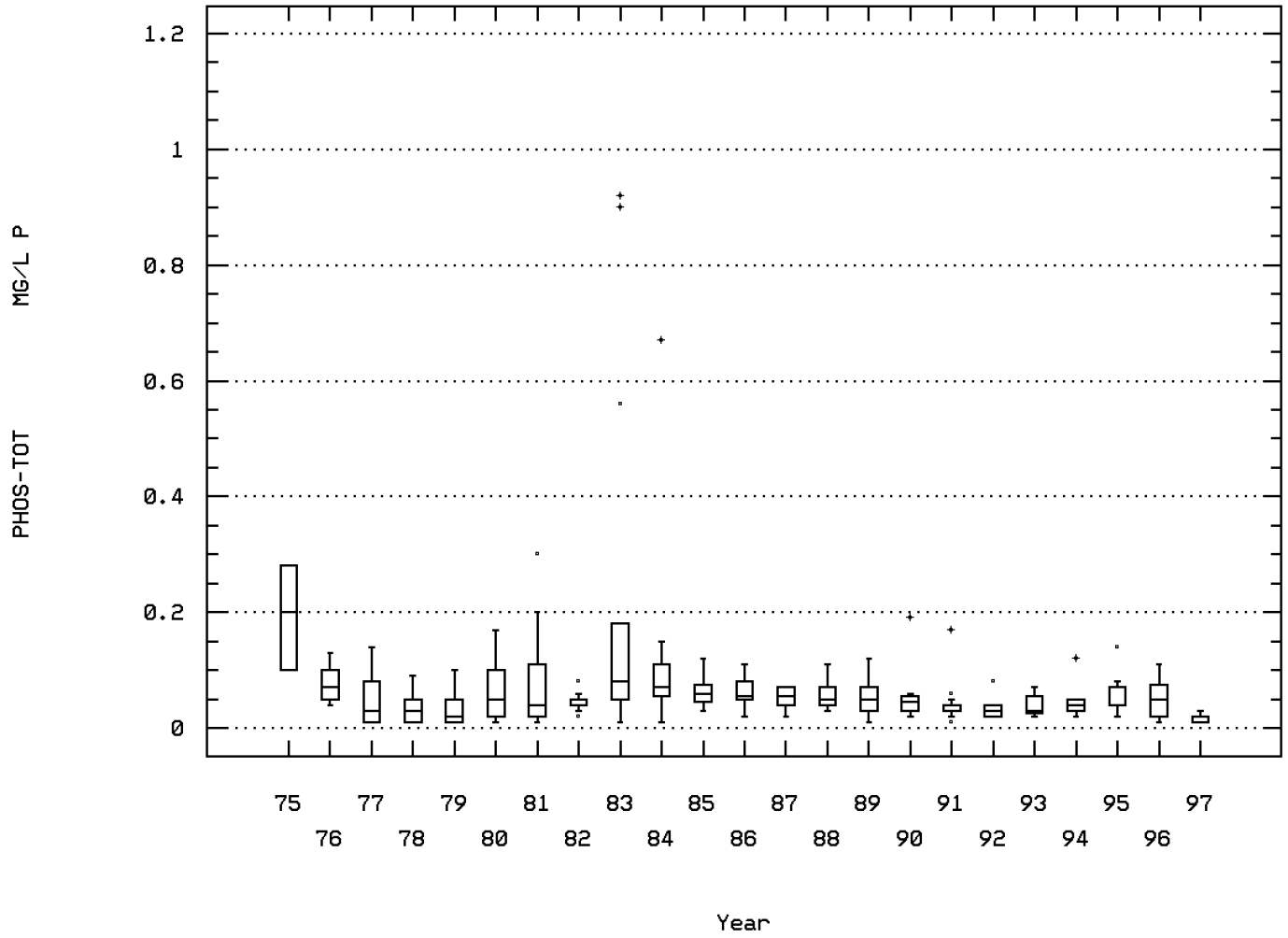
NITRATE NITROGEN, TOTAL (MG/L AS N)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00665

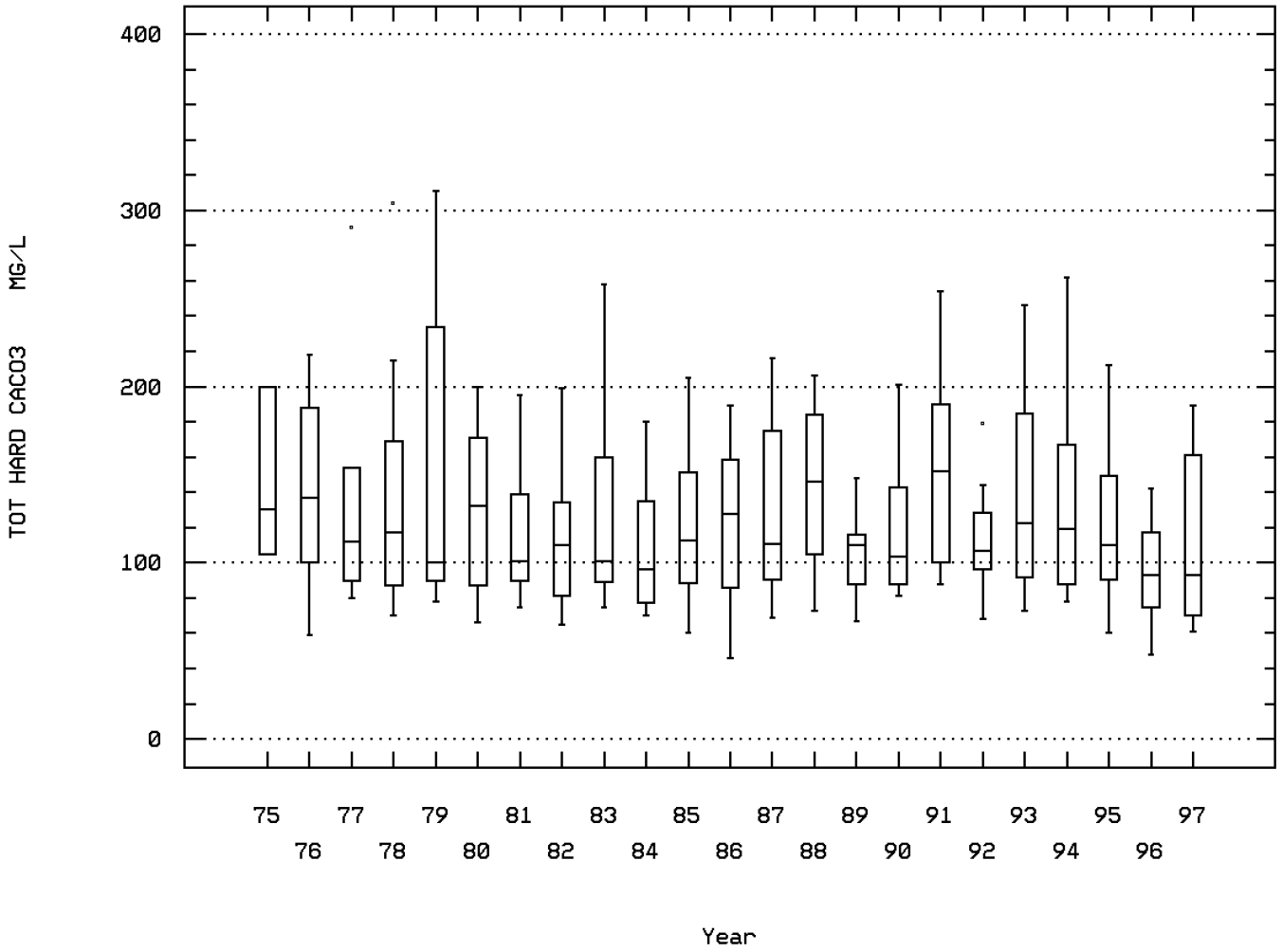
PHOSPHORUS, TOTAL (MG/L AS P)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00900

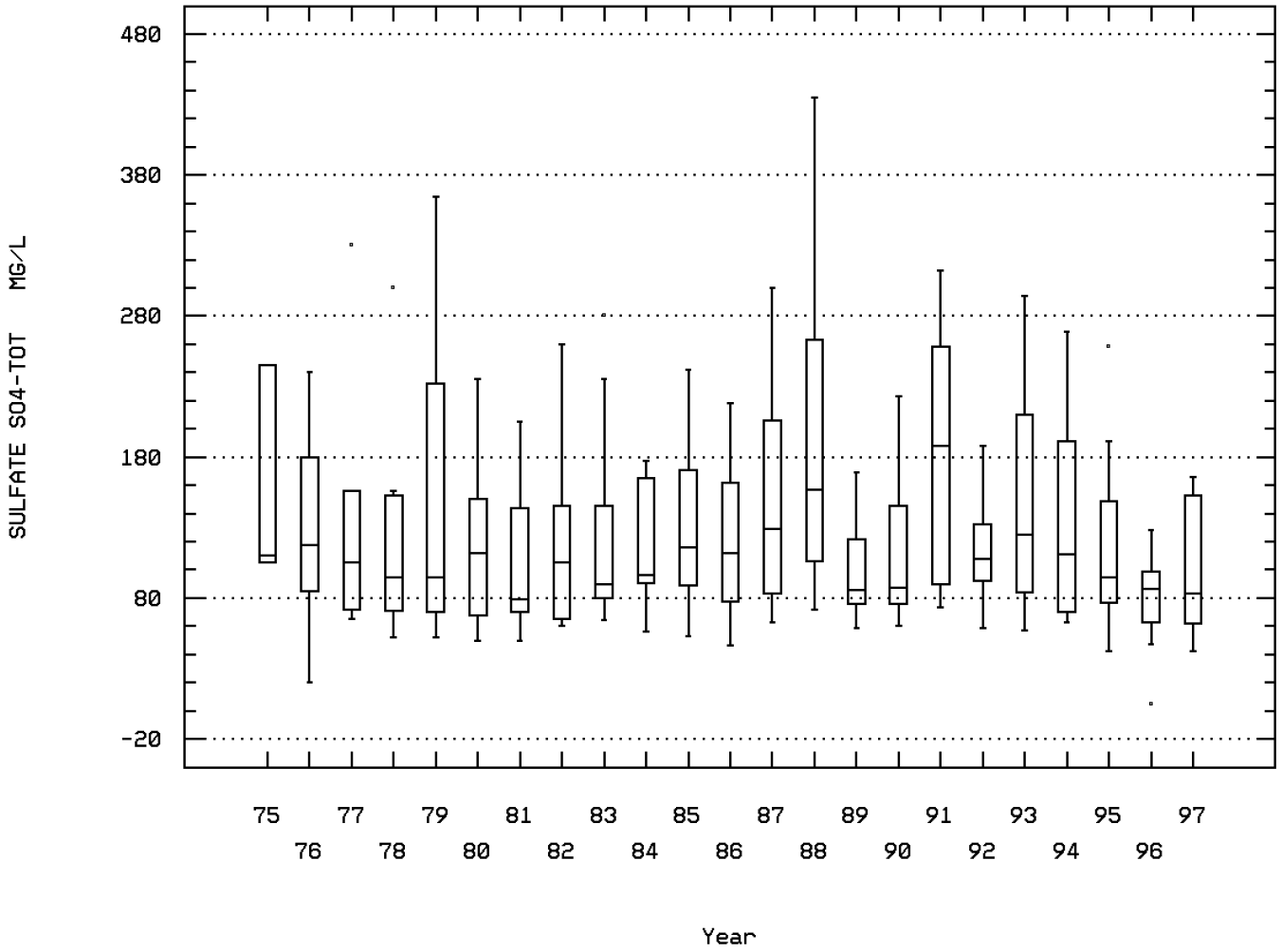
HARDNESS, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 00945

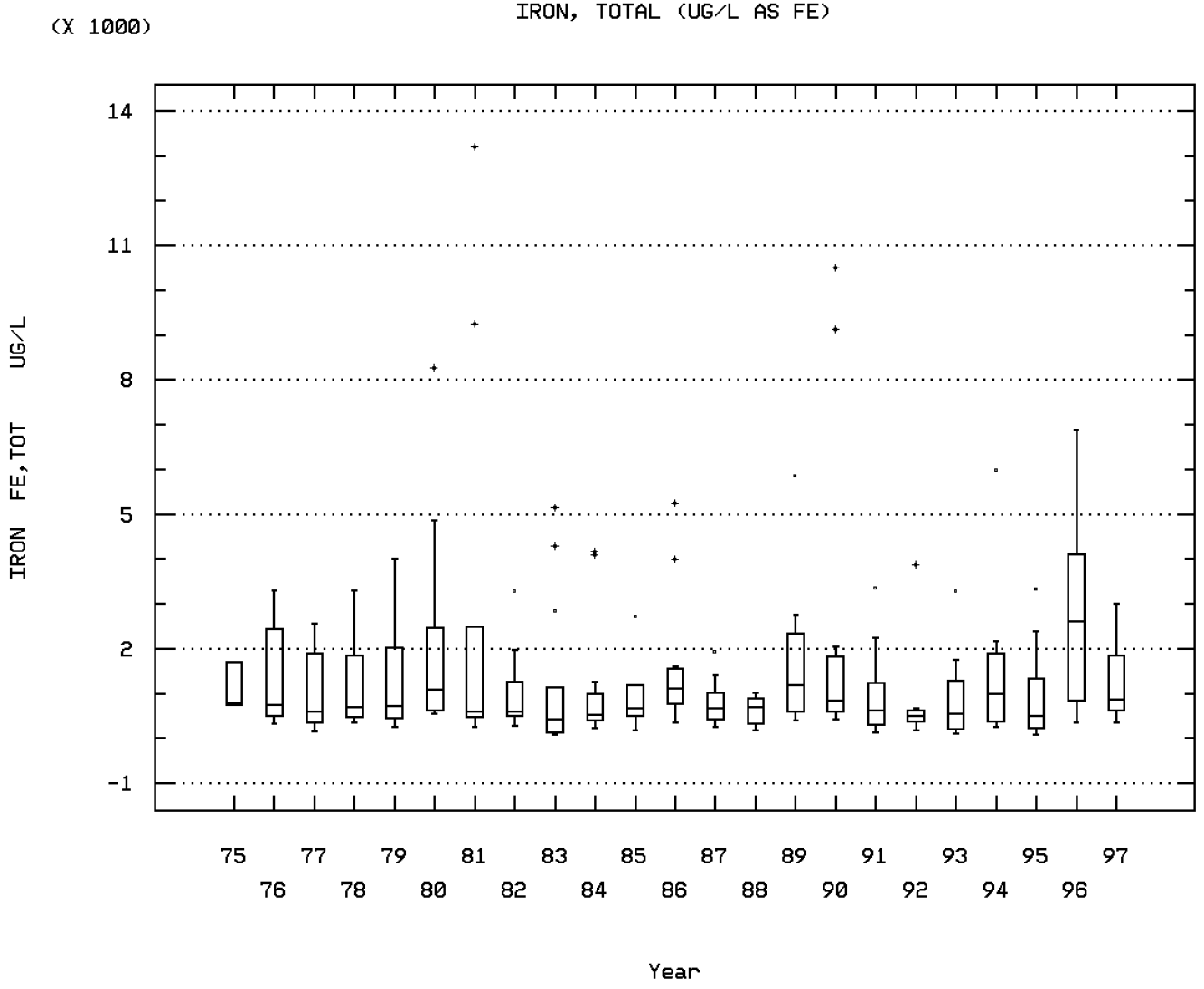
SULFATE, TOTAL (MG/L AS SO4)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Station: FRHI0045 Parameter Code: 01045

IRON, TOTAL (UG/L AS FE)



MONONGAHELA RVR-AT LOCK & DAM #8-POINT

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	66	22.9	21.124	29.	2.2	26.55	5.153	13.85	17.875	25.	26.26
00057	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	94	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	94	1990.	4287.298	37400.	251.	44039264.297	6636.209	929.	1305.	3750.	9220.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	28	1370.	3808.5	22440.	332.	29717601.37	5451.385	441.5	869.25	3240.	12849.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	38	9.81	10.291	15.06	6.5	2.312	1.521	9.1	9.4	11.02	12.838
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	32	345.	392.188	750.	120.	27340.222	165.349	209.	270.	535.	650.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	82	377.5	406.439	782.	135.	23299.089	152.64	224.4	295.75	509.25	658.3
00300	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	55	8.	8.171	10.7	5.4	1.244	1.115	7.	7.5	9.	9.84
00400	PH (STANDARD UNITS)	12/05/75-07/08/97	64	7.2	7.139	8.1	5.	0.237	0.486	6.6	6.913	7.5	7.65
00400	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	64	7.2	6.584	8.1	5.	0.549	0.741	6.6	6.913	7.5	7.65
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	64	0.063	0.26	10.	0.008	1.545	1.243	0.023	0.032	0.122	0.251
00403	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	83	6.7	6.688	7.7	6.	0.122	0.349	6.3	6.4	6.9	7.2
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	83	6.7	6.566	7.7	6.	0.137	0.37	6.3	6.4	6.9	7.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	83	0.2	0.271	1.	0.02	0.039	0.197	0.063	0.126	0.398	0.501
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	83	24.	27.904	72.	5.	122.234	11.056	16.	22.	35.	44.
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/24/75-04/13/83	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	70	288.	305.629	616.	108.	14243.947	119.348	164.2	212.	374.	493.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	31	6.	15.613	100.	1.	530.578	23.034	1.	4.	14.	53.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	82	0.115	0.22	6.93	0.01	0.572	0.756	0.04	0.08	0.18	0.274
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	83	0.012	0.017	0.418	0.001	0.002	0.045	0.004	0.008	0.016	0.022
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	83	0.58	0.615	1.15	0.35	0.024	0.156	0.434	0.52	0.7	0.86
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	82	0.04	0.064	0.9	0.01	0.013	0.113	0.02	0.03	0.06	0.094
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	37	2.3	2.435	3.6	1.6	0.245	0.495	1.9	2.1	2.6	3.34
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	83	135.	144.289	311.	46.	2943.452	54.254	77.4	104.	180.	215.6
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	41	37.5	43.946	218.	14.4	985.286	31.389	25.44	28.8	47.65	64.08
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	41	8.9	13.007	90.	2.5	214.752	14.654	5.04	6.9	12.75	25.28
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	46	8.	13.	204.	4.	844.222	29.056	5.	5.75	11.	13.9
00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	83	145.	155.373	365.	5.	5985.871	77.368	67.	94.	210.	269.
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	45 ##	5.	11.856	50.	0.5	123.916	11.132	5.	5.	14.	29.4
01045	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	84	494.	745.964	6870.	81.	1028333.095	1014.068	169.5	312.25	711.5	1420.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	45 ##	2.	3.	25.	0.5	24.58	4.958	0.5	1.5	2.	5.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	45	132.	137.622	420.	25.	6779.922	82.34	38.6	70.	187.5	245.4
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	45 ##	12.5	18.956	78.	10.	215.816	14.691	12.5	12.5	25.	29.4
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	51	14.	24.882	160.	5.	1023.426	31.991	5.	5.	30.	79.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	45	239.	537.422	4140.	50.	674207.215	821.101	67.5	169.5	561.	1122.
01501	ALPHA, TOTAL	03/29/76-04/11/84	14 ##	1.	0.964	1.5	0.5	0.172	0.414	0.5	0.5	1.5	1.5
03501	BETA, TOTAL	03/29/76-04/11/84	14 ##	1.75	2.214	4.	1.	0.989	0.994	1.25	1.5	3.	4.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	42	180.	1809.821	20000.	10.	18949920.547	4353.151	12.5	23.75	1350.	4700.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	42	2.253	2.385	4.301	1.	0.915	0.956	1.097	1.374	3.129	3.67
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			242.931								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	04/29/76-11/01/83	9	0.	0.556	5.	0.	2.778	1.667	0.	0.	0.	5.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	41	0.	1.561	22.	0.	16.902	4.111	0.	0.	0.	7.6

** - 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 3/14 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	73	6.	6.337	15.2	0.	12.093	3.477	2.	4.	8.5	11.6
00057	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	91	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	91	6200.	10025.451	42400.	820.	76557615.384	8749.721	2284.	3410.	14500.	22940.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	35	10090.	12113.	33600.	575.	93102215.	9648.949	1324.	3090.	19600.	27084.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	39	12.77	12.474	16.57	9.2	4.657	2.158	9.5	10.5	14.11	15.28
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	42	155.	178.929	420.	80.	7436.019	86.232	100.	120.	200.	338.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	96	268.5	307.375	750.	155.	18001.058	134.168	191.8	230.	325.	560.6
00300	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	59	12.	11.642	13.1	7.3	1.181	1.087	10.1	11.	12.4	12.9
00400	PH (STANDARD UNITS)	12/05/75-07/08/97	70	7.2	7.2	8.7	5.6	0.235	0.484	6.7	6.8	7.525	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 box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	70	7.2	6.862	8.7	5.6	0.35	0.592	6.7	6.8	7.525	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	70	0.063	0.137	2.512	0.002	0.109	0.33	0.02	0.03	0.158	0.2
00403	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	98	6.7	6.69	7.4	5.9	0.096	0.31	6.3	6.5	6.9	7.1
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	98	6.7	6.576	7.4	5.9	0.109	0.33	6.3	6.5	6.9	7.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	98	0.2	0.265	1.259	0.04	0.049	0.221	0.079	0.126	0.316	0.501
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	98	24.	25.388	56.	3.	89.642	9.468	14.9	20.	28.5	36.2
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/24/75-04/13/83	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	85	180.	212.671	517.	16.	10368.628	101.826	132.4	155.	236.5	390.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	38	10.	25.579	206.	1.	1469.548	38.335	1.	1.75	38.5	66.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	98	0.13	0.155	0.98	0.025	0.014	0.12	0.069	0.1	0.18	0.247
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	96	0.008	0.016	0.62	0.001	0.004	0.063	0.004	0.006	0.012	0.016
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	95	0.67	0.686	1.32	0.34	0.023	0.152	0.516	0.58	0.77	0.864
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	98	0.05	0.075	0.92	0.01	0.013	0.115	0.02	0.038	0.07	0.142
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	45	1.9	1.96	4.4	1.1	0.42	0.648	1.3	1.5	2.25	2.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	98	95.	108.469	304.	60.	1800.107	42.428	75.9	85.	114.5	167.1
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	44	26.6	31.58	117.6	3.1	347.231	18.634	17.8	23.125	31.8	60.5
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	44	6.85	8.182	18.8	1.	14.993	3.872	4.75	6.05	9.925	15.2
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	53	8.	8.509	22.	3.	16.639	4.079	5.	5.	10.	14.6
00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	98	89.	105.122	300.	42.	2939.201	54.214	60.	70.	112.25	191.7
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	47 ##	5.	7.617	34.	2.	31.894	5.647	5.	5.	10.	15.2
01045	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	98	921.5	1712.337	10500.	150.	3721950.081	1929.236	412.5	574.25	2287.5	4016.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	47 ##	2.	2.511	11.	0.5	4.907	2.215	0.5	2.	2.	6.
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	50	229.5	234.44	648.	75.	8805.598	93.838	123.6	176.5	273.	341.
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	47 ##	12.5	14.138	35.	10.	27.508	5.245	12.5	12.5	12.5	21.6
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	52	48.5	48.019	135.	5.	765.431	27.666	10.3	30.	59.75	84.9
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	47	613.	1432.691	8480.	67.5	3467846.234	1862.215	172.	352.	1800.	4188.
01501	ALPHA, TOTAL	03/29/76-04/11/84	20 ##	1.	1.125	6.	0.5	1.497	1.223	0.5	0.5	1.	1.95
03501	BETA, TOTAL	03/29/76-04/11/84	20 ##	2.	2.825	10.	1.	4.797	2.19	1.	1.5	4.	5.8
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	45	280.	921.722	6000.	5.	2152818.131	1467.248	23.	115.	1100.	3340.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	45	2.447	2.449	3.778	0.699	0.601	0.776	1.325	2.06	3.04	3.504
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			281.205								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	04/29/76-11/01/83	9	1.	0.667	2.	0.	0.5	0.707	0.	0.	1.	2.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	44	0.	2.773	42.	0.	67.249	8.201	0.	0.	0.	10.5

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/75-07/08/97	52	15.25	15.788	28.	4.	26.969	5.193	9.15	12.	19.4	23.55
00057	FLOW, INDICATES IT HAS BEEN CHECKED	04/24/75-09/27/94	69	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060	FLOW, STREAM, MEAN DAILY CFS	04/24/75-09/27/94	69	7700.	10493.478	40000.	1010.	87448202.43	9351.374	1310.	3720.	14900.	25800.
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/10/88-09/19/96	25	8570.	10671.8	33100.	495.	77040589.333	8777.277	1204.	3760.	16100.	25040.
00065	STAGE, STREAM (FEET)	01/20/77-08/16/95	31	12.38	11.727	16.26	9.	3.734	1.932	9.14	10.	13.32	13.78
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	29	230.	263.793	700.	110.	16502.956	128.464	130.	175.	330.	460.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/75-07/08/97	70	320.5	344.4	1475.	157.	32930.07	181.466	187.4	224.75	408.25	499.
00300	OXYGEN, DISSOLVED MG/L	12/05/75-07/08/97	46	9.6	9.926	15.	6.2	2.392	1.547	8.14	8.95	10.725	12.3
00400	PH (STANDARD UNITS)	12/05/75-07/08/97	53	7.2	7.151	7.8	5.5	0.229	0.479	6.42	7.	7.5	7.6
00400	CONVERTED PH (STANDARD UNITS)	12/05/75-07/08/97	53	7.2	6.743	7.8	5.5	0.399	0.631	6.42	7.	7.5	7.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/05/75-07/08/97	53	0.063	0.181	3.162	0.016	0.217	0.466	0.025	0.032	0.1	0.401
00403	PH, LAB, STANDARD UNITS SU	04/24/75-07/08/97	70	6.8	6.737	7.6	5.9	0.117	0.342	6.3	6.5	6.9	7.2
00403	CONVERTED PH, LAB, STANDARD UNITS	04/24/75-07/08/97	70	6.8	6.607	7.6	5.9	0.134	0.366	6.3	6.5	6.9	7.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/75-07/08/97	70	0.158	0.247	1.259	0.025	0.047	0.217	0.063	0.126	0.316	0.501
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	70	26.	29.1	166.	10.	360.729	18.993	15.	20.	34.	41.8
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/24/75-04/13/83	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/24/75-07/08/97	57	208.	239.404	636.	45.	11538.102	107.416	123.2	161.	309.	374.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/01/79-07/08/97	25	10.	19.04	136.	1.	852.29	29.194	1.	1.	26.5	52.8

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Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/75-07/08/97	70	0.11	0.128	0.4	0.02	0.006	0.08	0.05	0.08	0.143	0.218
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	70	0.01	0.012	0.051	0.001	0.	0.011	0.001	0.006	0.014	0.03
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/24/75-07/08/97	70	0.52	0.579	1.2	0.19	0.043	0.206	0.39	0.448	0.63	0.915
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/24/75-07/08/97	70	0.045	0.058	0.3	0.01	0.003	0.053	0.01	0.02	0.073	0.12
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	31	1.6	1.794	3.9	1.2	0.358	0.598	1.32	1.4	2.	2.56
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/24/75-07/08/97	70	120.	130.143	290.	60.	2459.834	49.597	75.	87.75	163.25	196.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	31	31.6	33.213	66.6	0.	210.112	14.495	18.28	22.4	45.	53.54
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	31	9.7	9.71	18.2	4.9	14.861	3.855	5.42	6.4	12.5	16.08
00940	CHLORIDE,TOTAL IN WATER MG/L	04/24/75-12/03/87	38	5.	6.421	17.	3.	7.926	2.815	4.	5.	7.25	11.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/75-07/08/97	70	107.	126.2	435.	20.	4937.959	70.271	62.1	76.	156.25	216.
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/08/97	33 ##	5.	8.364	37.	5.	59.176	7.693	5.	5.	7.5	19.2
01045	IRON, TOTAL (UG/L AS FE)	04/24/75-07/08/97	71	908.	1583.423	13190.	140.	3902279.133	1975.419	334.	510.	1920.	3294.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/08/97	33 ##	2.	2.045	8.	0.5	1.99	1.411	0.5	2.	2.	3.4
01055	MANGANESE, TOTAL (UG/L AS MN)	07/27/76-07/08/97	37	230.	240.405	420.	122.	3967.526	62.988	166.8	200.	269.5	327.4
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/08/97	33 ##	12.5	15.348	43.	5.	64.679	8.042	12.5	12.5	12.5	31.4
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-07/08/97	36	26.	37.083	122.	5.	875.621	29.591	8.5	17.25	50.75	83.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/27/76-07/08/97	35	444.	751.414	4100.	67.5	659679.419	812.207	195.2	262.	1080.	1826.
01501	ALPHA, TOTAL	03/29/76-04/11/84	12 ##	1.	0.833	1.5	0.5	0.106	0.326	0.5	0.5	1.	1.35
03501	BETA, TOTAL	03/29/76-04/11/84	11	3.	2.864	6.	1.	2.355	1.534	1.1	1.5	4.	5.6
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	35	750.	952.	5000.	20.	1149650.294	1072.217	68.	160.	1300.	2380.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/20/77-01/19/88	35	2.875	2.673	3.699	1.301	0.359	0.599	1.821	2.204	3.114	3.372
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			470.931								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	04/29/76-11/01/83	8 ##	1.	1.625	5.	0.	4.554	2.134	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/16/78-12/03/87	32	0.	3.563	46.	0.	111.673	10.568	0.	0.	0.	11.4

** - 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

Station Inventory for Station: FRHI0046

NPS Station ID: FRHI0046
LAT/LON: 39.725560/ -79.912227
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 90.9
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4PMP11002
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 090.90
HUC: 05020003
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020003
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002602.24
RF3 Mile Point: 3.60
Distance from RF3: 0.02
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 90.9 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 8, 0.1 MILE UPSTREAM OF LOCK AND DAM NO. 8 AT MID-CHANNEL - MORGANTOWN NORTH, W.VA - PA. QUAD SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	83	25.3	24.712	28.1	1.7	11.813	3.437	22.04	24.3	26.6	27.52
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	115	10.	17.629	100.	0.6	387.239	19.678	1.5	4.	26.	45.
00032	CLOUD COVER (PERCENT)	06/03/75-06/26/79	4	75.	65.	100.	10.	1900.	43.589	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	29	4.2	10.645	110.	2.3	538.83	23.213	2.6	3.5	5.55	8.9
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/75-06/26/79	4	54.	55.5	72.	42.	177.	13.304	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	28	10.	10.929	20.	0.	29.847	5.463	4.8	8.	15.	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	83	401.	416.94	739.	220.	18397.935	135.639	245.	299.	487.	598.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/14/90-08/25/92	6	353.	462.833	727.	305.	42285.767	205.635	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	82	7.5	7.493	9.4	5.5	1.062	1.03	6.13	6.8	8.2	9.
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	72	6.5	6.618	7.5	5.6	0.153	0.391	6.	6.45	6.975	7.117
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	72	6.5	6.436	7.5	5.6	0.186	0.432	6.	6.45	6.975	7.117
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	72	0.316	0.367	2.512	0.032	0.182	0.427	0.076	0.106	0.355	1.
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	29	6.9	6.845	7.3	6.3	0.078	0.278	6.4	6.65	7.05	7.2
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	29	6.9	6.756	7.3	6.3	0.086	0.293	6.4	6.65	7.05	7.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	29	0.126	0.175	0.501	0.05	0.015	0.123	0.063	0.09	0.225	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	28	22.	21.429	37.	7.	79.513	8.917	7.	14.	28.75	31.5
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	28	6.	5.75	11.	3.	2.12	1.456	4.	5.	6.	7.1
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	28	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	28	6.	5.75	11.	3.	2.12	1.456	4.	5.	6.	7.1
00500	RESIDUE, TOTAL (MG/L)	07/30/75-06/20/78	2	391.5	391.5	501.	282.	23980.5	154.856	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/20/78-06/20/78	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	29	4.	6.483	33.	2.	52.83	7.268	2.	3.	6.	11.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	22	0.1	0.109	0.3	0.025	0.006	0.075	0.033	0.05	0.2	0.2
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	22	0.15	0.191	0.5	0.05	0.022	0.148	0.05	0.05	0.3	0.4
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/75-08/25/92	22	0.55	0.534	0.9	0.05	0.066	0.257	0.05	0.4	0.725	0.87
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/03/75-08/25/92	22	0.012	0.016	0.07	0.005	0.	0.016	0.005	0.005	0.017	0.042
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	26	151.	158.808	248.	86.	2252.402	47.459	97.8	121.75	186.5	243.
00916	CALCIUM, TOTAL (MG/L AS CA)	08/23/83-08/25/92	18	45.95	44.711	68.3	14.	235.572	15.348	14.	37.825	55.35	65.96
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/23/83-08/25/92	18	10.55	11.1	19.	5.	14.488	3.806	5.9	8.675	13.325	18.82
00929	SODIUM, TOTAL (MG/L AS NA)	08/23/83-08/25/92	18	21.	24.394	56.4	14.	162.103	12.732	14.	15.375	25.35	54.69
00937	POTASSIUM, TOTAL MG/L AS K)	08/23/83-08/25/92	16	## 5.	3.5	5.	0.5	4.1	2.025	0.5	1.	5.	5.
00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/16/89	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	21	161.	169.095	330.	92.	3974.59	63.044	98.	122.	214.	275.

** - Less than 9 observations ## - 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: FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	08/16/89-07/30/91	6 ##	0.5	0.75	2.	0.5	0.375	0.612	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/23/83-08/25/92	18	50.	47.833	58.	31.	69.324	8.326	31.9	40.75	56.25	57.1
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/23/83-08/25/92	18 ##	5.	3.5	5.	0.5	4.765	2.183	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	08/23/83-07/30/91	16 ##	0.5	0.656	3.	0.5	0.391	0.625	0.5	0.5	0.5	1.25
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/23/83-08/25/92	18 ##	0.5	4.528	41.	0.5	107.132	10.35	0.5	0.5	2.75	23.
01042	COPPER, TOTAL (UG/L AS CU)	08/23/83-08/25/92	18	9.5	11.	36.	2.5	62.059	7.878	2.5	5.875	15.	18.9
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	26	415.5	480.615	1300.	50.	84602.006	290.864	166.2	300.	625.25	953.3
01051	LEAD, TOTAL (UG/L AS PB)	08/23/83-07/30/91	16 ##	1.	1.063	2.	1.	0.063	0.25	1.	1.	1.	1.3
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	26	188.5	216.077	654.	70.	14904.554	122.084	86.3	134.75	286.75	337.
01067	NICKEL, TOTAL (UG/L AS NI)	08/23/83-08/25/92	18 ##	2.5	8.917	57.	2.5	224.507	14.984	2.5	2.5	7.25	42.6
01092	ZINC, TOTAL (UG/L AS ZN)	08/23/83-08/25/92	18 ##	25.	27.5	70.	25.	112.5	10.607	25.	25.	25.	29.5
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/23/83-08/25/92	16 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/23/83-08/25/92	18	200.	207.944	426.	87.	7974.644	89.301	90.6	133.25	257.	357.6
01147	SELENIUM, TOTAL (UG/L AS SE)	08/16/89-07/30/91	4 ##	0.5	0.875	2.	0.5	0.563	0.75	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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EPA Water Quality Criteria Analysis for Station: FRHI0046

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	29	2	0.07	22	0	0.00	1	0	0.00	6	2	0.33			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	82	0	0.00	64	0	0.00				18	0	0.00			
00400	PH	Other-Hi Lim.	9.	72	0	0.00	62	0	0.00				10	0	0.00			
		Other-Lo Lim.	6.5	72	37	0.51	62	36	0.58				10	1	0.10			
00403	PH, LAB	Other-Hi Lim.	9.	29	0	0.00	22	0	0.00	1	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	29	4	0.14	22	2	0.09	1	1	1.00	6	1	0.17			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	22	0	0.00	17	0	0.00				5	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	21	2	0.10	17	2	0.12				4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00	6	0	0.00									
		Drinking Water	50.	6	0	0.00	6	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	18	0	0.00	18	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	18	0	0.00	18	0	0.00									
		Drinking Water	4.	6 &	0	0.00	6	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	16	0	0.00	16	0	0.00									
		Drinking Water	5.	16	0	0.00	16	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	18	0	0.00	18	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	18	1	0.06	18	1	0.06									
		Drinking Water	1300.	18	0	0.00	18	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	16	0	0.00	16	0	0.00									
		Drinking Water	15.	16	0	0.00	16	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	18	0	0.00	18	0	0.00									
		Drinking Water	100.	18	0	0.00	18	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	18	0	0.00	18	0	0.00									
		Drinking Water	5000.	18	0	0.00	18	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	16	0	0.00	16	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	4	0	0.00									
		Drinking Water	50.	4	0	0.00	4	0	0.00									

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

Annual Analysis for 1983 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	17	26.	38.353	100.	5.	1095.743	33.102	5.8	8.5	69.	92.

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

Annual Analysis for 1986 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	11	7.	13.009	49.	0.9	223.365	14.945	0.96	2.	22.	45.

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	15	9.	12.98	47.	0.6	172.955	13.151	0.9	4.	19.	38.6

** - 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 1988 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	15	8.	13.387	43.	1.	181.707	13.48	1.18	2.	24.	38.2

** - 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 1989 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	10	9.	16.6	52.	2.	302.489	17.392	2.	3.5	30.75	50.7

** - 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 1990 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	14	3.45	8.714	44.	0.8	148.023	12.166	0.9	1.45	12.25	34.5

** - 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 1991 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	20	7.1	13.27	48.	1.4	187.072	13.677	1.66	3.15	22.75	35.8

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

Annual Analysis for 1992 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	13	19.	21.792	45.	9.3	112.894	10.625	9.58	12.5	29.5	40.2

** - 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 #1: 7/01 to 10/31 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	64	26.	25.972	28.1	24.	1.374	1.172	24.45	24.725	26.75	27.95
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/23/83-08/25/92	115	10.	17.629	100.	0.6	387.239	19.678	1.5	4.	26.	45.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	22	4.3	4.782	8.9	2.3	3.423	1.85	2.63	3.625	5.4	8.32
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	21	10.	10.619	20.	0.	26.148	5.113	5.	8.	15.	19.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	64	403.	431.641	739.	220.	20101.662	141.78	292.	299.25	558.	668.5
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	64	7.1	7.111	8.3	5.5	0.619	0.787	5.8	6.7	7.8	8.15
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	62	6.5	6.602	7.5	5.6	0.172	0.415	6.	6.44	7.063	7.127
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	62	6.5	6.405	7.5	5.6	0.211	0.46	6.	6.44	7.063	7.127
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	62	0.316	0.394	2.512	0.032	0.206	0.454	0.075	0.087	0.363	1.
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	22	7.	6.909	7.3	6.3	0.071	0.267	6.53	6.7	7.1	7.27
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	22	7.	6.825	7.3	6.3	0.079	0.281	6.53	6.7	7.1	7.27
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	22	0.1	0.15	0.501	0.05	0.012	0.107	0.054	0.079	0.2	0.297
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	22	23.	22.636	37.	7.	85.195	9.23	7.3	15.75	29.	34.5
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	22	5.5	5.455	7.	3.	1.022	1.011	4.	5.	6.	7.
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	22	5.5	5.455	7.	3.	1.022	1.011	4.	5.	6.	7.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	23	4.	4.87	11.	2.	5.391	2.322	2.	3.	6.	8.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	18	0.1	0.119	0.3	0.05	0.006	0.077	0.05	0.05	0.2	0.21
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	18	0.2	0.2	0.5	0.05	0.021	0.147	0.05	0.05	0.3	0.41
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/75-08/25/92	17	0.6	0.515	0.8	0.05	0.066	0.258	0.05	0.4	0.7	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/03/75-08/25/92	17 ##	0.005	0.016	0.07	0.005	0.	0.018	0.005	0.005	0.022	0.054
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	20	154.	165.95	248.	102.	2184.155	46.735	117.1	123.25	187.5	243.
00916	CALCIUM, TOTAL (MG/L AS CA)	08/23/83-08/25/92	18	45.95	44.711	68.3	14.	235.572	15.348	14.	37.825	55.35	65.96
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/23/83-08/25/92	18	10.55	11.1	19.	5.	14.488	3.806	5.9	8.675	13.325	18.82
00929	SODIUM, TOTAL (MG/L AS NA)	08/23/83-08/25/92	18	21.	24.394	56.4	14.	162.103	12.732	14.	15.375	25.35	54.69
00937	POTASSIUM, TOTAL MG/L AS K)	08/23/83-08/25/92	16 ##	5.	3.5	5.	0.5	4.1	2.025	0.5	1.	5.	5.
00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	17	148.	164.412	330.	96.	4044.007	63.593	104.	122.	188.	294.
01007	BARIUM, TOTAL (UG/L AS BA)	08/23/83-08/25/92	18	50.	47.833	58.	31.	69.324	8.326	31.9	40.75	56.25	57.1
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/23/83-08/25/92	18 ##	5.	3.5	5.	0.5	4.765	2.183	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	08/23/83-07/30/91	16 ##	0.5	0.656	3.	0.5	0.391	0.625	0.5	0.5	0.5	1.25
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/23/83-08/25/92	18 ##	0.5	4.528	41.	0.5	107.132	10.35	0.5	0.5	2.75	23.
01042	COPPER, TOTAL (UG/L AS CU)	08/23/83-08/25/92	18	9.5	11.	36.	2.5	62.059	7.878	2.5	5.875	15.	18.9
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	20	336.5	369.25	692.	50.	28882.829	169.949	66.6	271.5	500.	601.8
01051	LEAD, TOTAL (UG/L AS PB)	08/23/83-07/30/91	16 ##	1.	1.063	2.	1.	0.063	0.25	1.	1.	1.	1.3
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	20	169.	194.05	654.	70.	16875.945	129.907	80.9	128.	220.	330.
01067	NICKEL, TOTAL (UG/L AS NI)	08/23/83-08/25/92	18 ##	2.5	8.917	57.	2.5	224.507	14.984	2.5	2.5	7.25	42.6
01092	ZINC, TOTAL (UG/L AS ZN)	08/23/83-08/25/92	18 ##	25.	27.5	70.	25.	112.5	10.607	25.	25.	25.	29.5
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/23/83-08/25/92	16 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/23/83-08/25/92	18	200.	207.944	426.	87.	7974.644	89.301	90.6	133.25	257.	357.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	1	289.	289.	289.	289.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	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 3/14 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	1	122.	122.	122.	122.	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	18	22.35	21.511	25.	18.8	3.913	1.978	18.8	19.	22.85	23.2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/03/75-08/25/92	6	4.7	33.5	110.	3.	2211.724	47.029	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/03/75-08/25/92	6	12.5	13.	20.	3.	44.	6.633	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	18	380.	371.778	490.	245.	10312.536	101.551	245.	247.25	486.25	489.1
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	18	9.	8.85	9.4	7.5	0.266	0.516	7.95	8.75	9.15	9.4
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	10	6.8	6.722	6.9	6.5	0.023	0.152	6.501	6.51	6.8	6.89
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	10	6.8	6.697	6.9	6.5	0.024	0.154	6.501	6.51	6.8	6.89
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	10	0.158	0.201	0.316	0.126	0.006	0.077	0.129	0.158	0.309	0.316
00403	PH, LAB, STANDARD UNITS SU	06/03/75-08/25/92	6	6.75	6.7	6.9	6.4	0.032	0.179	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/03/75-08/25/92	6	6.747	6.667	6.9	6.4	0.033	0.183	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	6	0.179	0.215	0.398	0.126	0.01	0.099	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	5	21.	19.	24.	14.	22.	4.69	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	5	6.	6.	8.	5.	1.5	1.225	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/03/75-08/25/92	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/03/75-08/25/92	5	6.	6.	8.	5.	1.5	1.225	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/03/75-08/25/92	6	4.	12.667	33.	2.	214.267	14.638	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/78-08/25/92	4 ##	0.063	0.063	0.1	0.025	0.002	0.043	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/78-08/25/92	4 ##	0.075	0.15	0.4	0.05	0.028	0.168	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/75-08/25/92	5	0.4	0.6	0.9	0.4	0.075	0.274	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/03/75-08/25/92	5	0.015	0.013	0.015	0.01	0.	0.003	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/03/75-08/25/92	5	150.	137.6	204.	86.	2546.8	50.466	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/03/75-08/25/92	4	214.5	189.	235.	92.	4276.667	65.396	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/03/75-08/25/92	6	844.5	851.833	1300.	385.	98282.967	313.501	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/03/75-08/25/92	6	288.5	289.5	337.	220.	1984.3	44.545	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/03/75-07/29/87	5	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Station Inventory for Station: FRHI0047

NPS Station ID: FRHI0047
LAT/LON: 39.862198/ -79.912504
Agency: 11NPSWRD
Date Created: 10/25/97
Location: PAFA504R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FRHI_NURE_09 /4070636
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE MONITORING STATION IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING OUTSIDE FRIENDSHIP HILL NATIONAL HISTORIC SITE (NPS). SAMPLES WERE FILTERED THROUGH A 0.8 UM FILTER AT THE SITE. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATABASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATABASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER LABORATORY. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/77-08/23/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/23/77-08/23/77	1	185.	185.	185.	185.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/77-08/23/77	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/77-08/23/77	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/77-08/23/77	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/77-08/23/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/77-08/23/77	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/23/77-08/23/77	1	11720.	11720.	11720.	11720.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/23/77-08/23/77	1	-0.1	-0.1	-0.1	-0.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/23/77-08/23/77	1	94.	94.	94.	94.	0.	0.	**	**	**	**
50700	INVALID PARAMETER	08/23/77-08/23/77	1	72.	72.	72.	72.	0.	0.	**	**	**	**
50760	INVALID PARAMETER	08/23/77-08/23/77	1	7700.	7700.	7700.	7700.	0.	0.	**	**	**	**
50761	INVALID PARAMETER	08/23/77-08/23/77	1	52.	52.	52.	52.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/23/77-08/23/77	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: FRHI0047

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									

& - 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: FRHI0048

NPS Station ID: FRHI0048
LAT/LON: 39.789865/ -79.912781
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER RM 84.6
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4MON13085
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 084.56
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002800.43
RF3 Mile Point: 0.53
Distance from RF3: 0.06
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 84.56 MILES UPSTREAM FROM PITTSBURGH, PA. IN THE MAXWELL POOL LOCATED AT LEFT BANK OF RIVER IN GREENSBURO, PA. NEAR ARRIVAL POINT FOR LOCKAGE INTO LOCK 7 APPROXIMATELY 0.35 MILES DOWNSTREAM OF GEORGES CREEK MASONTOWN, PA. QUAD. SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/74-10/10/74	7	20.5	19.929	26.	12.	27.202	5.216	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/26/74-10/10/74	7	15.	13.857	28.	3.5	57.226	7.565	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	04/26/74-10/10/74	7	12.	17.143	50.	3.	266.476	16.324	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/26/74-10/10/74	7	286.	320.857	440.	195.	11366.81	106.615	**	**	**	**
00400	PH (STANDARD UNITS)	04/26/74-10/10/74	7	5.	5.129	6.4	4.3	0.499	0.706	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/26/74-10/10/74	7	5.	4.793	6.4	4.3	0.63	0.794	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/74-10/10/74	7	10.	16.105	50.119	0.398	308.578	17.566	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/26/74-10/10/74	7	5.2	5.129	6.4	4.1	0.589	0.767	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/26/74-10/10/74	7	5.2	4.687	6.4	4.1	0.817	0.904	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/74-10/10/74	7	6.31	20.577	79.433	0.398	800.617	28.295	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/74-10/10/74	7	1.	2.714	7.	0.	8.571	2.928	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/26/74-10/10/74	7	20.	17.571	35.	2.	106.619	10.326	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/26/74-10/10/74	7	0.	0.286	2.	0.	0.571	0.756	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/26/74-10/10/74	7	13.	14.571	21.	5.	35.619	5.968	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/17/74-10/10/74	3	7.	8.233	17.	0.7	67.563	8.22	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/26/74-10/10/74	7	95.	106.286	186.	61.	1808.571	42.527	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/74-10/10/74	5	125.	111.8	155.	54.	1423.7	37.732	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/26/74-10/10/74	6	1325.	1655.	2850.	960.	656670.	810.352	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/74-10/10/74	7	435.	519.429	730.	330.	34023.952	184.456	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	04/26/74-10/10/74	7	2.	11.143	35.	0.	200.143	14.147	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0048

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00	4	0	0.00				3	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: FRHI0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	7	0	0.00	4	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	7	7	1.00	4	4	1.00				3	3	1.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	4	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	7	7	1.00	4	4	1.00				3	3	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00				3	0	0.00			

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

Station Inventory for Station: FRHI0049

NPS Station ID: FRHI0049
LAT/LON: 39.726116/ -79.913060
Agency: 1114O100
Date Created: / /
Location: MONONGAHELA R. AT PT. MARION
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 410909
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 090.70
HUC: 05020003
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020003001
RF1 Mile Point: 0.450
Distance from RF1: 5.50
On/Off RF1: ON
RF3 Index: 05020004000103.71
RF3 Mile Point: 4.02
Distance from RF3: 0.05
On/Off RF3:
Description:
STATION LOCATED ON THE MONONGAHELA RIVER AT PT. MARION ABOVE LOCK 8. MORGANTOWN NORTH, PA. 7.5 MIN QUAD MAP

Parameter Inventory for Station: FRHI0049

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: FRHI0050

NPS Station ID: FRHI0050
LAT/LON: 39.726116/ -79.913060
Agency: 1114ENF1
Date Created: / /
Location: MONONGAHELA RIVER AT PT. MARION
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 410909
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 090.70
HUC: 05020003
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020003001
RF1 Mile Point: 0.450
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 05020005002714.62
RF3 Mile Point: 14.62
Distance from RF3: 0.03
On/Off RF3:
Description:
MONONGAHELA RIVER AT LOCK AND DAM 8 NEAR PT. MARION, PA. 1.6 MILES US FROM THE CONFLUENCE OF THE CHEAT RIVER AND THE MONONGAHELA RIVER.
1963 STUDY BY A.D.SIDIO, FIELD WORK BY CINN. AND WHEELING FIELD STATION. MORGANTOWN NORTH, W.VA.-PA. 7.5 MIN QUAD MAP 3943340 07954470
MORGANTOWN NORTH, W.-PA 7.5 MIN QUAD MAP 3943340 07954470

Parameter Inventory for Station: FRHI0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-09/06/63	16	24.	23.656	26.	21.	1.424	1.193	21.7	23.125	24.	25.3
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/28/63-09/06/63	5	68.	67.84	80.	55.	80.028	8.946	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	12	372.5	389.167	560.	305.	5308.333	72.858	305.	337.5	441.25	528.5
00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/30/63	12	8.25	8.167	8.7	7.6	0.161	0.401	7.6	7.8	8.5	8.7
00400	PH (STANDARD UNITS)	08/26/63-08/30/63	4	4.5	4.45	4.6	4.2	0.037	0.191	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/63-08/30/63	4	4.489	4.417	4.6	4.2	0.038	0.195	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/63-08/30/63	4	32.465	38.286	63.096	25.119	321.532	17.931	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	12	3.8	3.792	4.2	3.3	0.079	0.281	3.3	3.7	4.	4.17
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/63-08/30/63	12	3.8	3.701	4.2	3.3	0.088	0.296	3.3	3.7	4.	4.17
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/63-08/30/63	12	158.489	198.863	501.187	63.096	22148.188	148.823	67.997	100.	199.526	501.187
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	12	6.5	6.167	9.	3.	4.515	2.125	3.3	4.	8.	9.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	12	19.5	19.417	29.	13.	20.629	4.542	13.	16.25	22.25	27.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	12	125.5	132.583	204.	98.	918.629	30.309	99.8	107.	154.75	190.2
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	12	23.5	23.75	35.	19.	17.477	4.181	19.3	20.5	25.	32.3

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

EPA Water Quality Criteria Analysis for Station: FRHI0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	12	0	0.00									
00400	PH	Other-Hi Lim.	9.	4	0	0.00	4	0	0.00									
		Other-Lo Lim.	6.5	4	4	1.00	4	4	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	12	0	0.00									
		Other-Lo Lim.	6.5	12	12	1.00	12	12	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: FRHI0051

NPS Station ID: FRHI0051
LAT/LON: 39.787227/ -79.917781
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 84.9
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4GRP11201
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 084.90
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.05
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 84.9 MILES UPSTREAM FROM PITTSBURGH, PA IN THE MAXWELL POOL 0.1 MILE DOWNSTREAM OF LOCK AND DAM NO. 7 AT MID-CHANNEL - MASONTOWN PA QUAD - SAMPLED BY U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA

Parameter Inventory for Station: FRHI0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	66	24.3	24.12	28.4	19.6	5.872	2.423	20.47	23.	26.25	26.83
00032	CLOUD COVER (PERCENT)	06/04/75-06/27/79	4	65.	57.5	100.	0.	2558.333	50.58	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	16	3.7	14.175	60.	1.7	479.125	21.889	2.12	2.675	9.675	60.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/04/75-06/27/79	4	72.	72.5	86.	60.	113.	10.63	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	15	10.	15.933	90.	3.	445.495	21.107	4.2	8.	15.	48.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	66	315.	344.727	690.	180.	17760.355	133.268	196.9	255.75	393.	575.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/25/92	3	244.	384.333	696.	213.	73092.333	270.356	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	66	7.9	8.152	10.1	6.7	0.701	0.837	7.47	7.6	8.5	9.66
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	59	6.44	6.202	7.15	4.5	0.491	0.701	4.9	6.	6.6	7.1
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	59	6.44	5.55	7.15	4.5	0.923	0.961	4.9	6.	6.6	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	59	0.363	2.819	31.623	0.071	36.897	6.074	0.079	0.251	1.	12.589
00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	16	6.7	6.55	7.3	5.1	0.265	0.515	5.73	6.325	6.875	7.16
00403	CONVERTED PH, LAB, STANDARD UNITS	06/04/75-08/25/92	16	6.7	6.107	7.3	5.1	0.474	0.689	5.73	6.325	6.875	7.16
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	16	0.2	0.781	7.943	0.05	3.708	1.926	0.071	0.134	0.475	3.083
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	16	10.5	11.75	30.	2.	71.133	8.434	2.	4.25	16.75	28.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	16	5.	5.313	10.	3.	3.296	1.815	3.	4.	6.	8.6
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	16	5.	5.188	8.	3.	2.296	1.515	3.	4.	6.	8.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	15	2.	10.913	90.	0.8	549.781	23.447	0.86	1.	4.	54.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	13 ##	0.05	0.083	0.2	0.025	0.003	0.057	0.035	0.05	0.1	0.2
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/21/78-08/25/92	13	0.2	0.173	0.4	0.05	0.014	0.117	0.05	0.05	0.25	0.36
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/21/78-08/25/92	12	0.6	0.579	1.4	0.05	0.108	0.329	0.095	0.425	0.7	1.19
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/21/78-08/25/92	13	0.01	0.035	0.254	0.005	0.005	0.068	0.005	0.005	0.038	0.175
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	16	108.	121.25	243.	56.	3201.	56.577	56.	74.5	150.75	240.2
00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	11	35.5	33.991	66.3	17.	229.823	15.16	17.4	20.6	44.	62.64
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	11	8.	8.645	17.9	4.4	15.429	3.928	4.52	5.4	11.	16.72
00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	11	14.	15.866	51.8	1.43	187.022	13.676	2.144	6.4	21.	45.88
00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	10 ##	5.	5.65	16.5	0.5	25.169	5.017	0.5	1.625	6.75	16.05
00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/25/92	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-08/25/92	13	109.	133.538	293.	51.	4126.103	64.235	62.6	95.5	153.5	265.
01002	ARSENIC, TOTAL (UG/L AS AS)	08/16/89-07/31/91	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	10	50.	49.2	60.	36.	54.4	7.376	36.7	43.	53.25	60.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	10 ##	5.	3.2	5.	0.5	5.4	2.324	0.5	0.5	5.	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

Parameter Inventory for Station: FRHI0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027	CADMIUM, TOTAL (UG/L AS CD)	08/06/86-07/31/91	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/06/86-08/25/92	7 ##	0.5	2.357	9.	0.5	11.393	3.375	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/06/86-08/25/92	7	9.	7.5	17.	2.5	29.333	5.416	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	16	321.	519.	2400.	50.	349503.733	591.188	50.	159.5	631.5	1616.
01051	LEAD, TOTAL (UG/L AS PB)	08/06/86-07/31/91	6 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	16	331.5	345.125	891.	70.	33514.917	183.071	112.	251.25	423.	603.3
01067	NICKEL, TOTAL (UG/L AS NI)	08/06/86-08/25/92	7	6.	8.786	23.	2.5	63.405	7.963	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/24/83-08/25/92	10 ##	25.	29.5	70.	25.	202.5	14.23	25.	25.	25.	65.5
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	9 ##	50.	66.667	200.	50.	2500.	50.	50.	50.	50.	200.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/24/83-08/25/92	10	207.5	340.1	1560.	74.	189336.767	435.128	82.6	169.75	272.5	1441.
01147	SELENIUM, TOTAL (UG/L AS SE)	08/16/89-07/31/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/04/75-07/29/87	11	0.	0.909	10.	0.	9.091	3.015	0.	0.	0.	8.
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	5	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: FRHI0051

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	16	3	0.19	12	1	0.08				4	2	0.50			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	66	0	0.00	53	0	0.00				13	0	0.00			
00400	PH	Other-Hi Lim.	9.	59	0	0.00	52	0	0.00				7	0	0.00			
		Other-Lo Lim.	6.5	59	37	0.63	52	32	0.62				7	5	0.71			
00403	PH, LAB	Other-Hi Lim.	9.	16	0	0.00	12	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	16	7	0.44	12	4	0.33				4	3	0.75			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	10	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	13	1	0.08	11	1	0.09				2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	10	0	0.00	10	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	10	0	0.00	10	0	0.00									
		Drinking Water	4.	4 &	0	0.00	4	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6	0	0.00	6	0	0.00									
		Drinking Water	5.	6	0	0.00	6	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	7	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	7	0	0.00									
		Drinking Water	1300.	7	0	0.00	7	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	6	0	0.00									
		Drinking Water	15.	6	0	0.00	6	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00	7	0	0.00									
		Drinking Water	100.	7	0	0.00	7	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	10	0	0.00	10	0	0.00									
		Drinking Water	5000.	10	0	0.00	10	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	9	1	0.11	9	1	0.11									
		Drinking Water	6.	1 &	1	1.00	1	1	1.00									
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									

& - 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: 7/01 to 10/31 - Station FRHI0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	53	24.7	24.828	28.4	20.4	4.305	2.075	20.5	23.9	26.4	27.32
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	12	3.15	8.358	54.	1.7	212.772	14.587	1.97	2.675	5.65	41.1
00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	11	10.	16.727	90.	3.	604.218	24.581	3.4	8.	15.	75.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	53	320.	362.679	690.	190.	18827.914	137.215	211.4	258.	415.5	605.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	53	7.7	7.958	10.1	6.7	0.566	0.752	7.22	7.5	8.1	9.3
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	52	6.35	6.206	7.15	4.5	0.469	0.685	4.973	6.	6.592	7.1
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	52	6.347	5.566	7.15	4.5	0.886	0.941	4.973	6.	6.592	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	52	0.45	2.717	31.623	0.071	38.04	6.168	0.079	0.256	1.	11.165
00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	12	6.7	6.583	7.3	5.1	0.349	0.591	5.37	6.275	6.975	7.24
00403	CONVERTED PH, LAB, STANDARD UNITS	06/04/75-08/25/92	12	6.7	6.038	7.3	5.1	0.674	0.821	5.37	6.275	6.975	7.24
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	12	0.2	0.917	7.943	0.05	4.971	2.23	0.059	0.106	0.552	5.86
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	12	11.	12.5	30.	2.	82.818	9.1	2.3	4.25	17.5	29.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	12	4.5	5.167	10.	3.	4.333	2.082	3.	4.	6.	9.4
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	12	4.5	5.	8.	3.	2.909	1.706	3.	4.	6.	8.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	12	2.	10.817	90.	0.8	646.694	25.43	0.86	1.	4.	68.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	11 ##	0.05	0.086	0.2	0.05	0.004	0.06	0.05	0.05	0.1	0.2
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/21/78-08/25/92	11	0.2	0.182	0.4	0.05	0.015	0.121	0.05	0.05	0.3	0.38
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/21/78-08/25/92	10	0.6	0.585	1.4	0.05	0.131	0.362	0.065	0.35	0.7	1.33
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/21/78-08/25/92	11	0.013	0.04	0.254	0.005	0.005	0.073	0.005	0.005	0.04	0.214
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	12	117.	130.833	243.	70.	3347.242	57.855	70.	90.	150.75	241.8
00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	11	35.5	33.991	66.3	17.	229.823	15.16	17.4	20.6	44.	62.64
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	11	8.	8.645	17.9	4.4	15.429	3.928	4.52	5.4	11.	16.72
00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	11	14.	15.866	51.8	1.43	187.022	13.676	2.144	6.4	21.	45.88
00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	10 ##	5.	5.65	16.5	0.5	25.169	5.017	0.5	1.625	6.75	16.05
00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-08/25/92	11	109.	128.	293.	51.	4035.8	63.528	56.8	91.	153.	265.2
01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	10	50.	49.2	60.	36.	54.4	7.376	36.7	43.	53.25	60.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	10 ##	5.	3.2	5.	0.5	5.4	2.324	0.5	0.5	5.	5.
01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	12	215.	489.583	2400.	50.	472242.447	687.199	50.	143.	486.75	2064.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	12	373.	362.917	891.	70.	43696.811	209.038	88.	224.	430.	767.7
01092	ZINC, TOTAL (UG/L AS ZN)	08/24/83-08/25/92	10 ##	25.	29.5	70.	25.	202.5	14.23	25.	25.	25.	65.5
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	9 ##	50.	66.667	200.	50.	2500.	50.	50.	50.	50.	200.
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/24/83-08/25/92	10	207.5	340.1	1560.	74.	189336.767	435.128	82.6	169.75	272.5	1441.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	13	21.1	21.231	23.	19.6	1.896	1.377	19.68	19.9	23.	23.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	4	32.1	31.625	60.	2.3	1074.123	32.774	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	4	15.	13.75	20.	5.	56.25	7.5	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	13	244.	271.538	390.	180.	7387.936	85.953	184.8	192.	380.	389.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	13	8.5	8.938	9.8	8.3	0.511	0.715	8.3	8.3	9.8	9.8
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	7	6.5	6.171	6.95	4.9	0.762	0.873	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	7	6.5	5.447	6.95	4.9	1.373	1.172	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	7	0.316	3.571	12.589	0.112	32.575	5.707	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	4	6.4	6.45	6.7	6.3	0.03	0.173	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/04/75-08/25/92	4	6.4	6.427	6.7	6.3	0.031	0.175	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	4	0.398	0.374	0.501	0.2	0.016	0.126	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	4	9.	9.5	18.	2.	43.	6.557	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	4	6.	5.75	6.	5.	0.25	0.5	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	4	6.	5.75	6.	5.	0.25	0.5	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	3	2.	11.3	31.	0.9	291.37	17.07	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	2 ##	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/21/78-08/25/92	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 box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0051

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)	06/21/78-08/25/92	2	0.55	0.55	0.6	0.5	0.005	0.071	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/21/78-08/25/92	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	4	79.	92.5	156.	56.	2262.333	47.564	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/78-08/25/92	2	164.	164.	223.	105.	6962.	83.439	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	4	626.	607.25	637.	540.	2117.583	46.017	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	4	283.5	291.75	348.	252.	2288.25	47.836	**	**	**	**

** - Less than 9 observations ## - Computed 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: FRHI0052

NPS Station ID: FRHI0052 LAT/LON: 39.833338/ -79.918337 Agency: 21PAFISH Date Created: 09/22/79
Location: GERMAN TWP.-FAYETTE CO.-CATS CREEK FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII30PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005028 RF1 Mile Point: 0.920 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020003000100.10 RF3 Mile Point: 0.09 Distance from RF3: 0.18 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0053

NPS Station ID: FRHI0053
LAT/LON: 39.750005/ -79.918337
Agency: 112WRD
Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT DILLINER, PA # 216
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071704
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005037
RF1 Mile Point: 1.830
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020003003400.00
RF3 Mile Point: 0.23
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	4	18.5	16.375	19.	9.5	21.229	4.608	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	4	0.4	0.358	0.6	0.03	0.083	0.288	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	4	1190.	1187.5	1350.	1020.	19825.	140.801	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/19/81	4	3.2	3.125	3.3	2.8	0.049	0.222	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/19/81	4	3.2	3.077	3.3	2.8	0.052	0.228	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/19/81	4	630.957	836.999	1584.893	501.187	252340.531	502.335	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	794.328	794.328	794.328	794.328	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	4	235.	237.5	260.	220.	291.667	17.078	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	2	0.75	0.75	0.9	0.6	0.045	0.212	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	2	335.	335.	380.	290.	4050.	63.64	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	2	86.	86.	97.	75.	242.	15.556	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	2	29.5	29.5	33.	26.	24.5	4.95	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	2	4.05	4.05	4.1	4.	0.005	0.071	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/19/81	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	2	2.3	2.3	2.4	2.2	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	4	2.	2.	3.	1.	0.667	0.816	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	4	500.	515.	590.	470.	2700.	51.962	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	2	50.5	50.5	52.	49.	4.5	2.121	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	200.	200.	400.	0.	40000.	200.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	4	3850.	4125.	7000.	1800.	4622500.	2150.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	4	3800.	4100.	7200.	1600.	5373333.333	2318.045	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	4	0.	175.	700.	0.	122500.	350.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	4	6300.	6650.	8100.	5900.	1076666.667	1037.625	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	4	6700.	6700.	7400.	6000.	433333.333	658.281	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1	530.	530.	530.	530.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	620.	620.	620.	620.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	40000.	40000.	40000.	40000.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	2	23500.	23500.	25000.	22000.	4500000.	2121.32	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	4	812.	848.5	1000.	770.	10743.	103.648	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	4	0.8	0.738	1.27	0.08	0.376	0.613	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	2	1.205	1.205	1.36	1.05	0.048	0.219	**	**	**	**

** - 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 time series plot

Parameter Inventory for Station: FRHI0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	4	4.7	4.75	5.2	4.4	0.117	0.342	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0053

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	3	3	1.00				1	1	1.00			
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									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01091	ZINC, SUSPENDED	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	1	1.00	1	1	1.00									
		Drinking Water	5000.	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: FRHI0054

NPS Station ID: FRHI0054 LAT/LON: 39.767642/ -79.919365 Agency: 11NPSWRD Date Created: 09/27/97
Location: PRIMARY MINE DRAINAGE TO ICE POND RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_DOE_D1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE PRIMARY SOURCE OF MINE DRAINAGE ENTERING THE HEAD OF ICE POND RUN. DATA ARE FROM THE 1991 FINAL REPORT "USE OF A CONSTRUCTED WETLAND FOR THE TREATMENT OF ACID MINE DRAINAGE AT FRIENDSHIP HILL NATIONAL HISTORIC SITE FAYETTE COUNTY PA". ADDITIONAL 1988-1996 DATA PROVIDED BY ANGELA COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	10/27/88-07/01/93	21	2.7	2.757	2.9	2.6	0.007	0.081	2.7	2.7	2.8	2.9
00403	CONVERTED PH, LAB, STANDARD UNITS	10/27/88-07/01/93	21	2.7	2.75	2.9	2.6	0.007	0.081	2.7	2.7	2.8	2.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/27/88-07/01/93	21	1995.262	1777.883	2511.886	1258.925	103998.255	322.488	1258.925	1584.893	1995.262	1995.262
00406	PH, FIELD, STANDARD UNITS SU	04/18/89-02/10/93	4	2.58	2.585	2.62	2.56	0.001	0.03	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	04/18/89-02/10/93	4	2.58	2.584	2.62	2.56	0.001	0.03	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/18/89-02/10/93	4	2633.058	2604.794	2754.229	2398.833	31904.415	178.618	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/27/88-07/01/93	21	1200.	1203.476	1510.	885.	19660.162	140.215	1002.	1161.	1255.	1458.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/27/88-07/01/93	21	264.	263.014	344.	193.	1708.962	41.34	196.2	227.8	297.	312.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/27/88-07/01/93	21	114.	114.252	139.	82.2	202.527	14.231	92.	106.5	125.	131.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/27/88-07/01/93	21	5.5	5.08	6.	1.1	1.216	1.103	4.04	4.5	5.75	5.9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/10/93-07/01/93	3	0.5	0.5	0.6	0.4	0.01	0.1	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/27/88-07/01/93	21	2279.	2262.262	2850.	1646.	74365.29	272.7	1860.	2112.5	2437.5	2640.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/10/93-07/01/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/10/93-07/01/93	2 ##	35.	35.	50.	20.	450.	21.213	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	02/10/93-07/01/93	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/10/93-07/01/93	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/10/93-07/01/93	2	25.	25.	30.	20.	50.	7.071	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	02/10/93-07/01/93	2	310.	310.	320.	300.	200.	14.142	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	02/10/93-07/01/93	2	160.	160.	160.	160.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	10/27/88-07/01/93	21	13.	38.667	233.	2.	4223.633	64.989	2.	3.5	44.	188.4
01049	LEAD, DISSOLVED (UG/L AS PB)	02/10/93-07/01/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/27/88-07/01/93	21	9.8	10.11	12.8	7.2	1.702	1.305	8.9	9.1	10.95	12.12

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

Parameter Inventory for Station: FRHI0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	02/10/93-07/01/93	2	575.	575.	590.	560.	450.	21.213	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	02/10/93-07/01/93	2	1425.	1425.	1430.	1420.	50.	7.071	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	02/10/93-07/01/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/27/88-07/01/93	21	72500.	71102.857	88400.	54500.	63594371.429	7974.608	57680.	66950.	74350.	81560.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/10/93-07/01/93	2 ##	125.	125.	200.	50.	11250.	106.066	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	10/27/88-07/01/93	21	240.6	251.245	377.	172.	2104.98	45.88	196.4	222.5	271.	330.6

** - 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: FRHI0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	21	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00			
		Other-Lo Lim.	6.5	21	21	1.00	10	10	1.00	6	6	1.00	5	5	1.00			
00406	PH, FIELD	Other-Hi Lim.	9.	4	0	0.00				2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00				2	2	1.00	2	2	1.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	21	21	1.00	10	10	1.00	6	6	1.00	5	5	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	0 &	0	0.00												
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00	1	0	0.00	1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	4.	1 &	1	1.00	1	1	1.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1 &	1	1.00	1	1	1.00									
		Drinking Water	5.	1 &	1	1.00	1	1	1.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	2	1.00	1	1	1.00	1	1	1.00						
		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.	0 &	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	2	1.00	1	1	1.00	1	1	1.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	2	1.00	1	1	1.00	1	1	1.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	6.	0 &	0	0.00												
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	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: FRHI0055

NPS Station ID: FRHI0055 LAT/LON: 39.767642/ -79.919365 Agency: 11NPSWRD Date Created: 09/27/97
Location: PRIMARY MINE DISCHARGE INTO ICE POND RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_BOM_1
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE SOURCE OF MINE DRAINAGE ENTERING THE HEAD OF ICE POND RUN. DATA FOR THE SITE ARE FROM THE 1985 "FRIENDSHIP HILL PROJECT STATUS REPORT - PHASE 1 FEASIBILITY STUDY" PREPARED FOR THE NATIONAL PARK SERVICE BY THE BUREAU OF MINES; FOR MORE INFORMATION CONTACT ANGELA R. COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PENNSYLVANIA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	1	3600.	3600.	3600.	3600.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/09/83-03/09/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/83-03/09/83	1	2511.886	2511.886	2511.886	2511.886	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	1	1672.	1672.	1672.	1672.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	1	939.	939.	939.	939.	0.	0.	**	**	**	**
00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	1	527.	527.	527.	527.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	1	2860.	2860.	2860.	2860.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	1	80400.	80400.	80400.	80400.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	1	11800.	11800.	11800.	11800.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	1	71400.	71400.	71400.	71400.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	1	4548.	4548.	4548.	4548.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	1	405.	405.	405.	405.	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: FRHI0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						

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

Station Inventory for Station: FRHI0056

NPS Station ID: FRHI0056 LAT/LON: 39.788337/ -79.920004 Agency: 21PAFISH Date Created: 09/22/79
Location: GREENSBORO-GREENE CO.-MON.R.LOCK #7 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII16PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005028 RF1 Mile Point: 3.670 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 05020005002403.57 RF3 Mile Point: 7.74 Distance from RF3: 0.10 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0057

NPS Station ID: FRHI0057 LAT/LON: 39.787504/ -79.920837 Agency: 21PA Date Created: 04/19/77
Location: MONONGAHELA RVR-AT GAUGING STA ABV LOCK DAM 7 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WQN0703 /ABMS0703 /03072550
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005038 RF1 Mile Point: 0.100 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 05020005001600.00 RF3 Mile Point: 0.46 Distance from RF3: 0.02 On/Off RF3:
Description:
MONONGAHELA RIVER AT GREENSBORO, PA., GREENE COUNTY. 1 KM ABOVE DAM AND LOCK #7, 1.3 KM UPSTREAM OF GEORGES CREEK, 2.5 KM DOWNSTREAM FROM DUNKARD CREEK, 6.2 KM DOWNSTREAM FROM CHEAT RIVER AND 0.7 KM UPSTREAM OF USGS GAUGING STATION AT GREENSBORO. COMPOSITE ONE-THIRD POINTS. MONTHLY CHEMICAL AND ANNUAL QUANTITATIVE BIOLOGICAL. SPECIAL PARAMETERS FLOURIDE, PHENOL, GROSS ALPHA AND BETA. BIOLOGICAL SAMPLED AT MID-CHANNEL.

Parameter Inventory for Station: FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	127	13.1	13.823	28.5	0.	70.303	8.385	3.	6.5	22.	25.
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	135	3850.	7306.119	49200.	444.	75720635.986	8701.761	1058.	1900.	8760.	18220.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	111	5900.	8405.423	45000.	4.	80612238.919	8978.432	792.	2250.	12800.	18770.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	93	12.1	12.322	17.15	9.4	2.736	1.654	10.14	11.	13.465	14.48
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	60	10.	15.318	105.	0.5	456.165	21.358	2.5	3.625	15.	44.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	47	6.	15.091	200.	1.5	931.335	30.518	2.44	3.4	14.	35.2
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-12/18/72	42	0.	2.726	25.	0.	31.661	5.627	0.	0.	5.	5.
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	07/07/71-01/04/72	2	17.05	17.05	24.1	10.	99.405	9.97	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/19/72-04/18/73	8	304.	341.625	620.	145.	30446.839	174.49	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	145	250.	287.766	730.	120.	13094.459	114.431	179.2	201.	357.5	437.6
00300	OXYGEN, DISSOLVED MG/L	06/19/62-06/14/88	94	9.45	9.639	17.8	4.5	6.591	2.567	6.2	8.	11.825	12.85
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-08/02/72	39	0.9	1.118	4.6	0.	0.958	0.979	0.	0.5	1.5	2.1
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	127	6.4	5.933	8.	3.	1.61	1.269	4.	4.9	6.8	7.4
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	127	6.4	4.325	8.	3.	4.216	2.053	4.	4.9	6.8	7.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	127	0.398	47.326	1000.	0.01	23749.118	154.107	0.04	0.158	12.589	100.
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	225	6.2	5.573	7.9	2.8	1.543	1.242	3.7	4.15	6.5	6.84
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	225	6.2	4.152	7.9	2.8	3.574	1.89	3.7	4.15	6.5	6.84
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	225	0.631	70.525	1584.893	0.013	35590.512	188.654	0.145	0.316	71.264	199.526
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	193	12.	12.44	120.	0.	132.748	11.522	0.	5.	18.	23.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/19/72-01/11/73	5	7.	7.6	14.	2.	28.3	5.32	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-04/13/83	100	0.	3.54	28.	0.	38.877	6.235	0.	0.	4.	14.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	103	20.	26.796	108.	0.	643.223	25.362	0.	8.	40.	70.4
00500	RESIDUE, TOTAL (MG/L)	06/19/62-08/02/72	41	250.	284.463	755.	120.	22874.455	151.243	138.8	164.5	357.5	520.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	127	172.	204.173	704.	31.	10352.017	101.745	105.6	138.	256.	327.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-06/14/88	47	10.	18.596	160.	1.	1018.203	31.909	5.	5.	15.	30.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	142	0.105	0.164	4.73	0.001	0.158	0.397	0.05	0.08	0.173	0.25
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	139	0.006	0.011	0.308	0.001	0.001	0.027	0.001	0.003	0.01	0.024
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	140	0.59	0.685	10.03	0.29	0.664	0.815	0.431	0.48	0.715	0.879
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/17/80-04/23/81	3	0.91	0.95	1.52	0.42	0.304	0.551	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	07/25/67-01/04/72	18	0.01	0.027	0.22	0.	0.003	0.052	0.	0.	0.033	0.085
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	143	0.04	0.075	1.31	0.01	0.021	0.145	0.01	0.02	0.07	0.12
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/19/72-06/14/88	9	3.	3.089	5.5	1.5	2.166	1.472	1.5	1.65	4.25	5.5
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	52 ##	0.5	6.5	103.	0.	397.31	19.933	0.001	0.5	0.5	14.05
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	86 ##	0.004	0.019	0.5	0.001	0.003	0.059	0.001	0.001	0.01	0.047
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	183	94.	108.169	350.	38.	2472.559	49.725	59.4	75.	131.	173.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/19/72-12/13/77	29	25.6	28.355	50.4	11.2	108.418	10.412	14.7	20.8	35.5	47.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	114	24.75	29.089	171.	6.3	305.488	17.478	17.4	20.375	33.925	42.9
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/19/72-12/13/77	29	8.5	8.886	28.4	1.1	24.396	4.939	4.5	5.9	10.6	13.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	113	6.9	8.153	40.	0.25	27.673	5.261	4.14	5.2	9.5	13.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	180	6.	7.889	163.	0.	147.943	12.163	4.	5.	8.	11.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	222	94.	117.257	620.	15.	5074.979	71.239	55.	68.	150.	208.5
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/19/62-01/04/72	37	0.1	0.109	0.4	0.	0.012	0.111	0.	0.	0.2	0.22
00951p	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	169	0.1	0.192	12.	0.	0.843	0.918	0.05	0.05	0.165	0.22
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/19/72-09/19/72	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/19/72-08/05/86	3 ##	2.	4.667	10.	2.	21.333	4.619	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/19/72-09/19/72	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/19/72-08/17/87	10 ##	0.5	1.85	10.	0.1	9.543	3.089	0.1	0.25	2.125	9.4
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/19/72-09/19/72	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/19/72-08/17/87	10 ##	2.	6.6	35.	1.	106.711	10.33	1.1	2.	6.25	32.5
01040	COPPER, DISSOLVED (UG/L AS CU)	09/19/72-09/19/72	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/19/72-06/14/88	13 ##	15.	17.577	40.	2.5	117.16	10.824	3.5	7.5	25.	34.
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	222	1075.	1971.712	20000.	0.	5872455.88	2423.315	300.	507.5	2500.	4740.
01046	IRON, DISSOLVED (UG/L AS FE)	09/19/72-12/18/72	2	415.	415.	450.	380.	2450.	49.497	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/19/72-09/19/72	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/19/72-06/14/88	13 ##	2.	5.077	25.	2.	44.535	6.673	2.	2.	5.	20.
01055	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-06/14/88	57	520.	659.053	2800.	0.	269749.444	519.374	178.8	300.	900.	1268.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/19/72-12/18/72	2	494.	494.	710.	278.	93312.	305.47	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/19/72-09/19/72	1	57.	57.	57.	57.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/19/72-06/14/88	13 ##	25.	31.038	80.	10.	559.561	23.655	10.	12.5	48.	76.
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/19/72-09/19/72	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/19/72-06/14/88	15	30.	65.067	495.	5.	15379.352	124.014	5.	10.	40.	288.
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-06/14/88	65	1750.	3328.523	20000.	0.	17063135.441	4130.755	196.	625.5	4900.	7940.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/19/72-09/19/72	1	950.	950.	950.	950.	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	10/16/67-04/11/84	63 ##	1.	1.262	5.	0.5	0.773	0.879	0.5	1.	1.5	3.
01502	ALPHA, TOTAL, COUNTING ERROR	09/30/76-05/06/81	8	1.	1.125	2.	1.	0.125	0.354	**	**	**	**
03501	BETA, TOTAL	10/16/67-04/11/84	63 ##	2.	3.071	16.	1.	8.434	2.904	1.	1.5	3.	8.
03502	BETA, TOTAL, COUNTING ERROR	03/29/76-04/11/84	16	2.	1.625	2.	1.	0.25	0.5	1.	1.	2.	2.
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/16/80-04/11/84	11 ##	145.	149.682	168.5	135.	108.614	10.422	135.9	140.	158.5	166.8
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	08/09/72-06/21/77	8	301.5	300.	740.	4.	72124.857	268.561	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	08/09/72-06/21/77	8	2.443	2.092	2.869	0.602	0.689	0.83	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			123.613								
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	33	39.	1497.394	27000.	0.	26295102.746	5127.875	0.	3.5	261.5	5160.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	33	1.591	1.614	4.431	0.	1.505	1.227	0.	0.423	2.416	3.524
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			41.124								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	131	80.	579.756	20000.	0.	3798774.794	1949.045	10.	12.5	425.	1300.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	131	1.903	1.934	4.301	0.	0.764	0.874	1.	1.097	2.628	3.114
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			85.866								
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	07/09/81-07/09/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	128	0.	2.594	59.	0.	61.944	7.87	0.	0.	2.	5.
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-11/13/84	97	0.005	211.841	7749.	0.	1461757.711	1209.032	0.	0.	0.05	0.084
46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	06/19/62-10/16/80	30	9.	13.167	70.	0.	355.661	18.859	0.	0.	20.	41.8
46008	PHYLUM NEMATODA, NEMATODES	11/18/76-09/22/80	11	3.	4.	8.	1.	6.6	2.569	1.	2.	7.	7.8
46014	FAMILY HIRUDIDAE, LEECHES	10/05/84-11/03/87	4	1.5	1.5	2.	1.	0.333	0.577	**	**	**	**
46018	FAMILY GAMMARIDAE, SCUD	09/23/82-11/03/87	7	5.	10.143	23.	1.	74.476	8.63	**	**	**	**
46025	FAMILY PERLODIDAE, STONEFLY W/GILLS ON SUBMENTUM	09/23/82-09/23/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	09/23/82-09/23/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	10/05/84-11/03/87	4	1.5	1.75	3.	1.	0.917	0.957	**	**	**	**
46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	09/23/82-09/23/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	11/18/76-11/03/87	19	37.	123.789	710.	12.	41161.842	202.884	14.	22.	91.	601.
46095	FAMILY PHYSIDAE, LUNG SNAILS	10/05/84-11/03/87	4	4.	5.	11.	1.	18.	4.243	**	**	**	**
46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	11/18/76-11/03/87	19	41.	268.158	1000.	3.	153959.696	392.377	6.	11.	500.	1000.
46142	FAMILY POLYCENTROPIDAE, CADDISFLY NO/FT2	09/23/82-11/03/87	6	5.	5.	9.	1.	8.	2.828	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	03/14/84-11/13/84	3	0.	4.	12.	0.	48.	6.928	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	01/04/72-12/18/72	3	0.03	0.155	0.43	0.004	0.057	0.239	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	115	0.	7.157	118.	0.	281.817	16.787	0.	0.	8.	20.
71900	MERCURY, TOTAL (UG/L AS HG)	09/19/72-08/05/86	3 ##	0.5	0.5	1.	0.	0.25	0.5	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	67	5.2	12.834	117.	0.5	486.373	22.054	1.46	2.6	10.9	35.2

** - 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: FRHI0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	60	4	0.07	22	0	0.00	19	2	0.11	19	2	0.11			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	47	2	0.04	12	0	0.00	20	0	0.00	15	2	0.13			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	94	0	0.00	37	0	0.00	31	0	0.00	26	0	0.00			
00400	PH	Other-Hi Lim.	9.	127	0	0.00	47	0	0.00	48	0	0.00	32	0	0.00			
		Other-Lo Lim.	6.5	127	77	0.61	47	31	0.66	48	26	0.54	32	20	0.63			
00403	PH, LAB	Other-Hi Lim.	9.	225	0	0.00	79	0	0.00	82	0	0.00	64	0	0.00			
		Other-Lo Lim.	6.5	225	176	0.78	79	67	0.85	82	64	0.78	64	45	0.70			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	139	0	0.00	43	0	0.00	56	0	0.00	40	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	140	1	0.01	44	1	0.02	56	0	0.00	40	0	0.00			
00719	CYANIDE, FREE,IN WATER&WASTEWATERS, HBG	Fresh Acute	22.	52	4	0.08	21	3	0.14	16	1	0.06	15	0	0.00			
		Drinking Water	200.	52	0	0.00	21	0	0.00	16	0	0.00	15	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	85 &	12	0.14	30	7	0.23	29	2	0.07	26	3	0.12			
		Drinking Water	0.2	85 &	0	0.00	30	0	0.00	29	0	0.00	26	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	180	0	0.00	59	0	0.00	70	0	0.00	51	0	0.00			
		Drinking Water	250.	180	0	0.00	59	0	0.00	70	0	0.00	51	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	222	12	0.05	77	10	0.13	81	0	0.00	64	2	0.03			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	37	0	0.00	13	0	0.00	13	0	0.00	11	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	169	1	0.01	54	0	0.00	66	0	0.00	49	1	0.02			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	10	2	0.20	8	1	0.13	1	1	1.00	1	0	0.00			
		Drinking Water	5.	10	1	0.10	8	0	0.00	1	1	1.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00	8	0	0.00	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.	8 &	1	0.13	3	1	0.33	3	0	0.00	2	0	0.00			
		Drinking Water	1300.	13	0	0.00	8	0	0.00	3	0	0.00	2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	13	0	0.00	8	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	15.	12 &	0	0.00	8	0	0.00	2	0	0.00	2	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.	13	0	0.00	8	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	100.	13	0	0.00	8	0	0.00	3	0	0.00	2	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	15	2	0.13	8	1	0.13	5	1	0.20	2	0	0.00			
		Drinking Water	5000.	15	0	0.00	8	0	0.00	5	0	0.00	2	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	11	0	0.00	5	0	0.00	4	0	0.00	2	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	8	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00			
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	33	3	0.09	11	0	0.00	12	2	0.17	10	1	0.10			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	131	46	0.35	44	16	0.36	51	15	0.29	36	15	0.42			

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

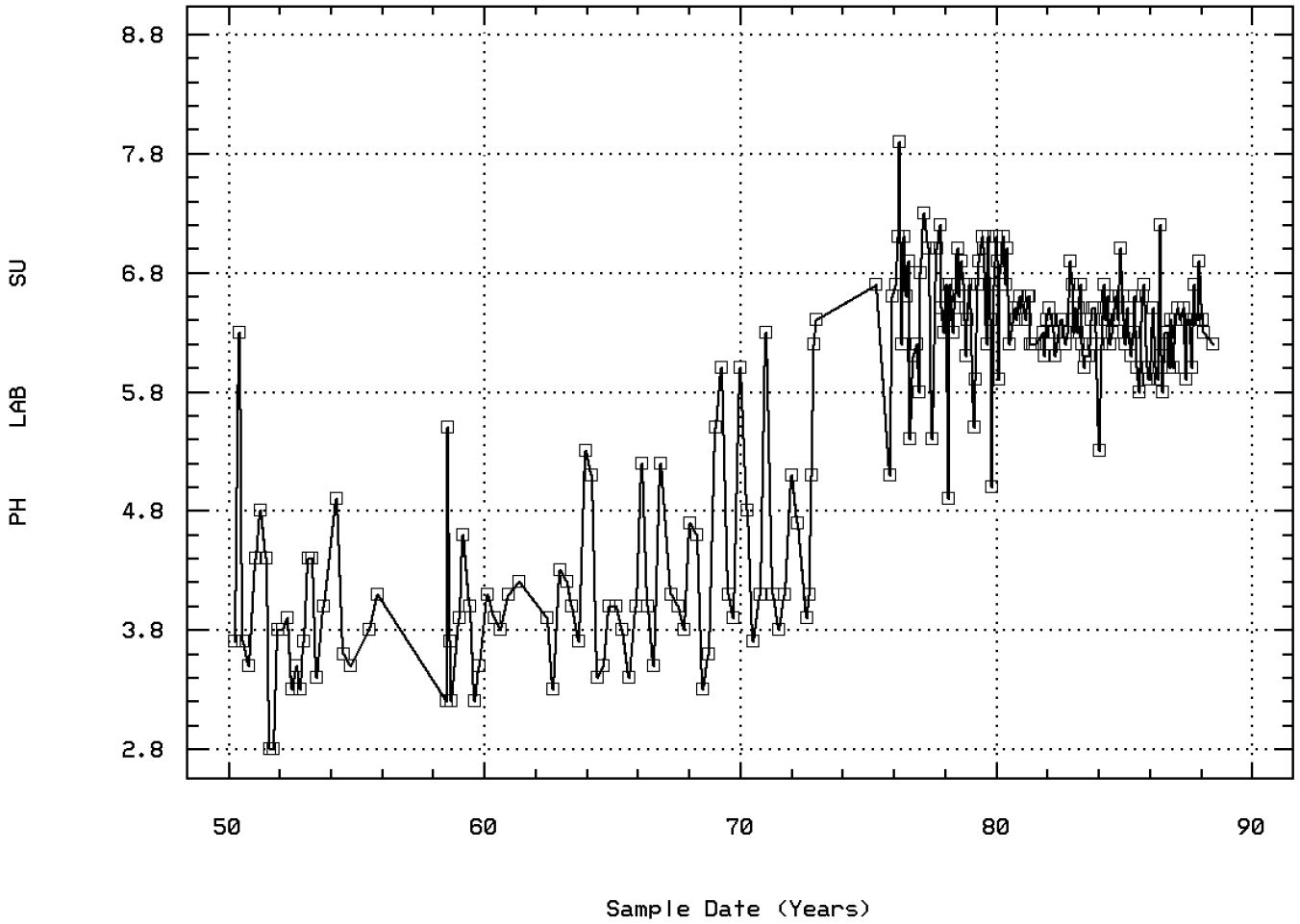
EPA Water Quality Criteria Analysis for Station: FRHI0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
32260	CARBON TETRACHLORIDE EXTRACTABLES	Fresh Acute	35.2	1	0	0.00	1	0	0.00									
		Drinking Water	0.005	1	1	1.00	1	1	1.00									
50060	CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	3	1	0.33				2	1	0.50	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	3	0	0.00									
		Drinking Water	2.	3	0	0.00	3	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	67	4	0.06	25	2	0.08	26	1	0.04	16	1	0.06			

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

Station: FRHI0057 Parameter Code: 00403

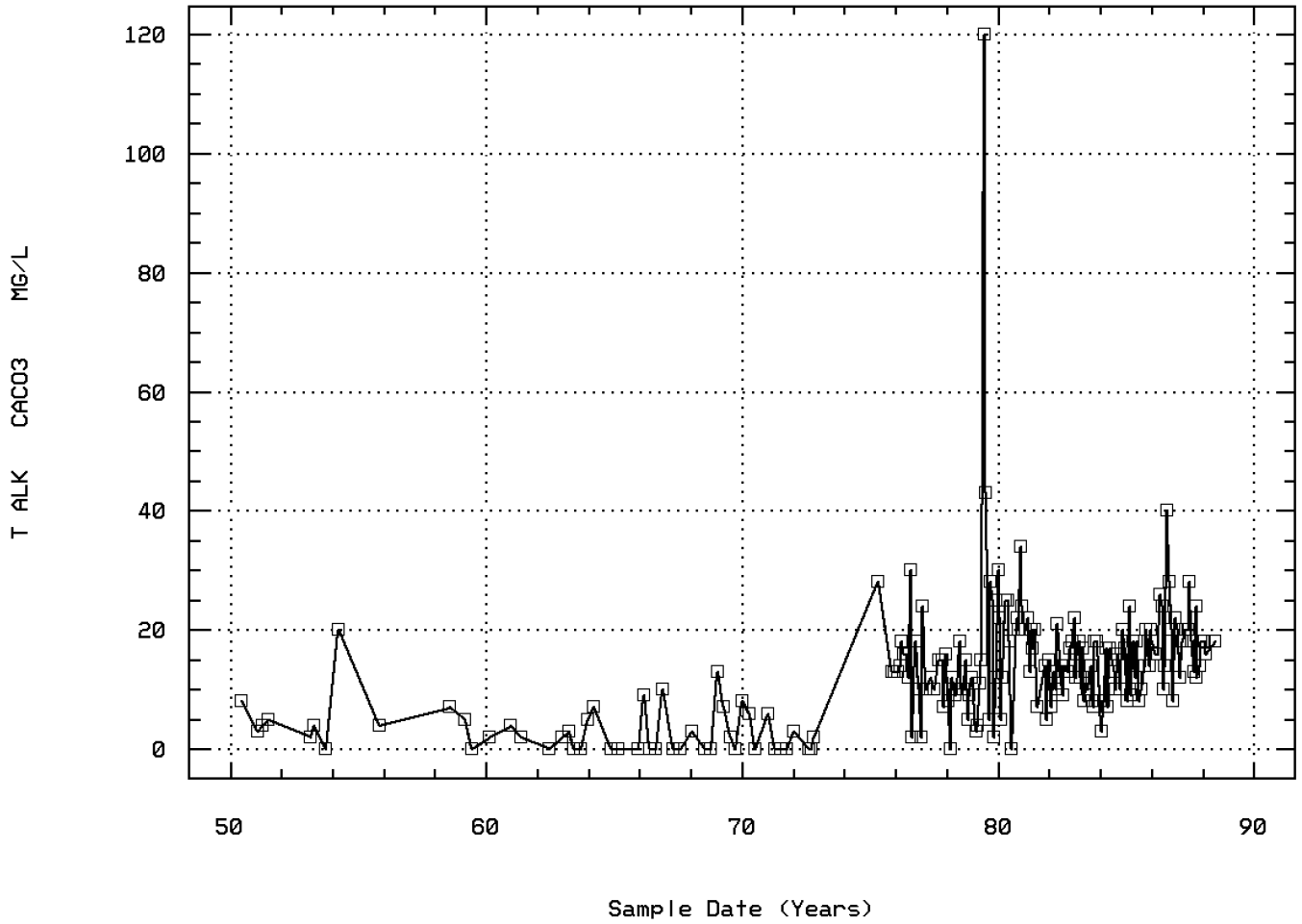
PH, LAB, STANDARD UNITS



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00410

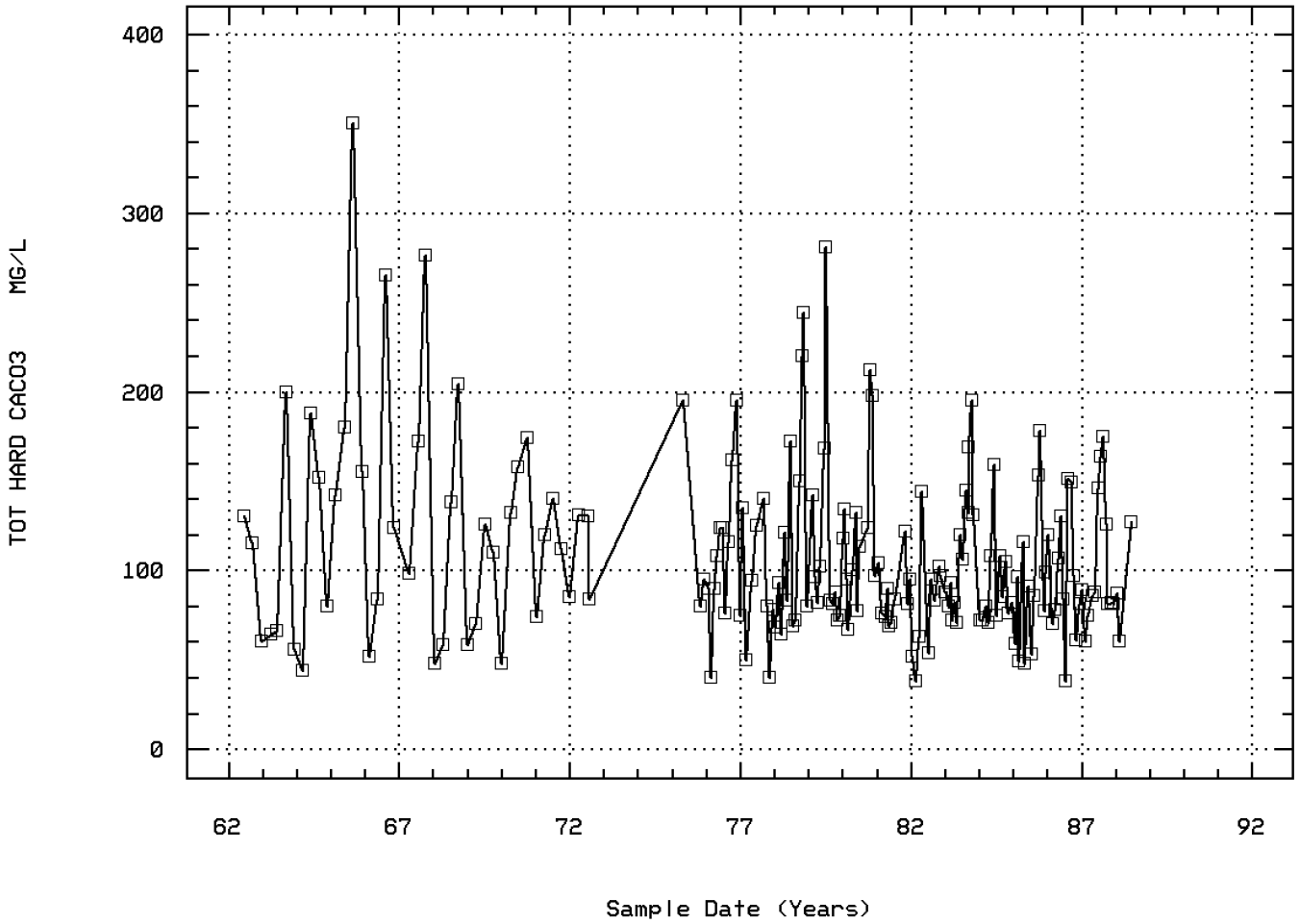
ALKALINITY, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00900

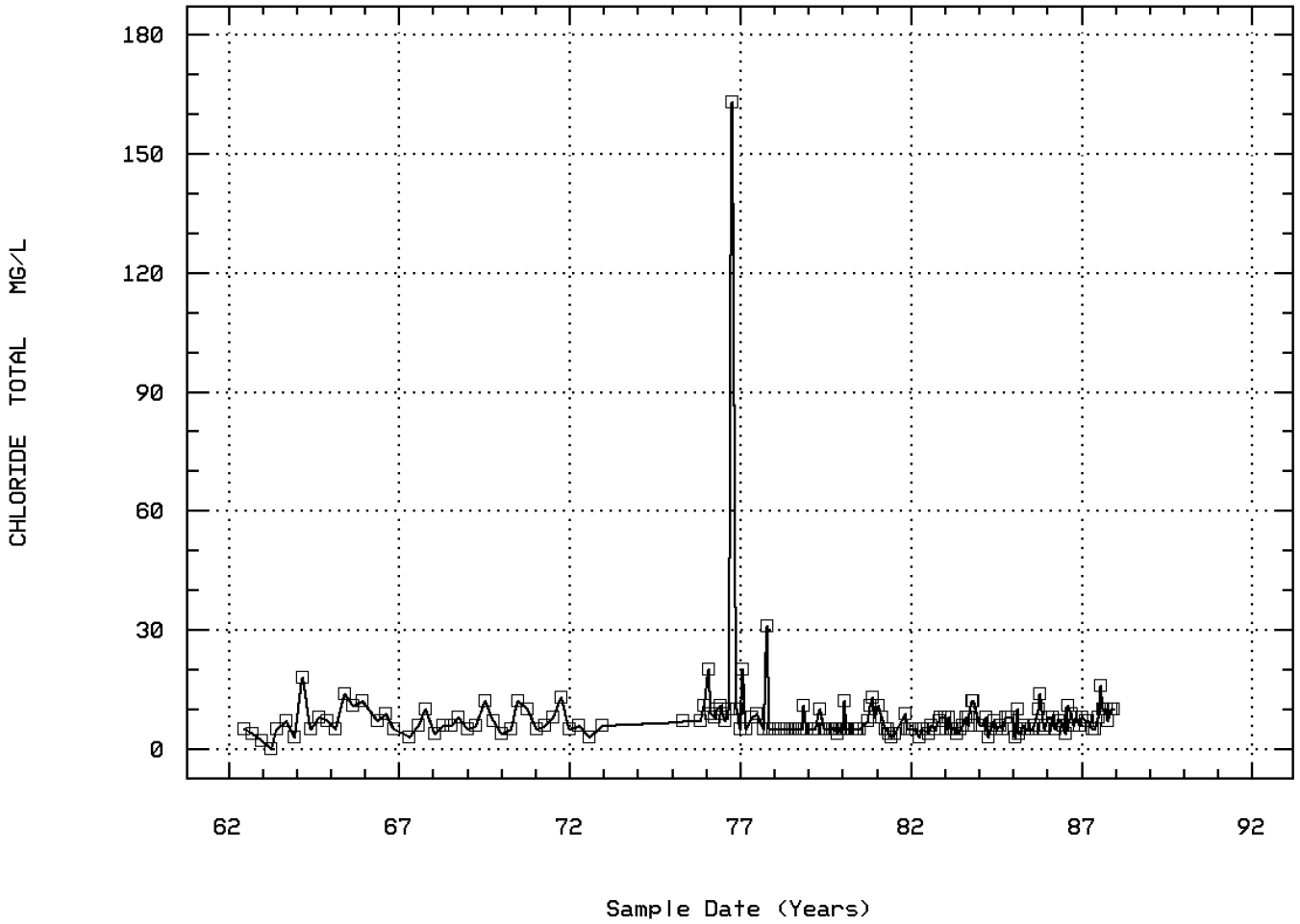
HARDNESS, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00940

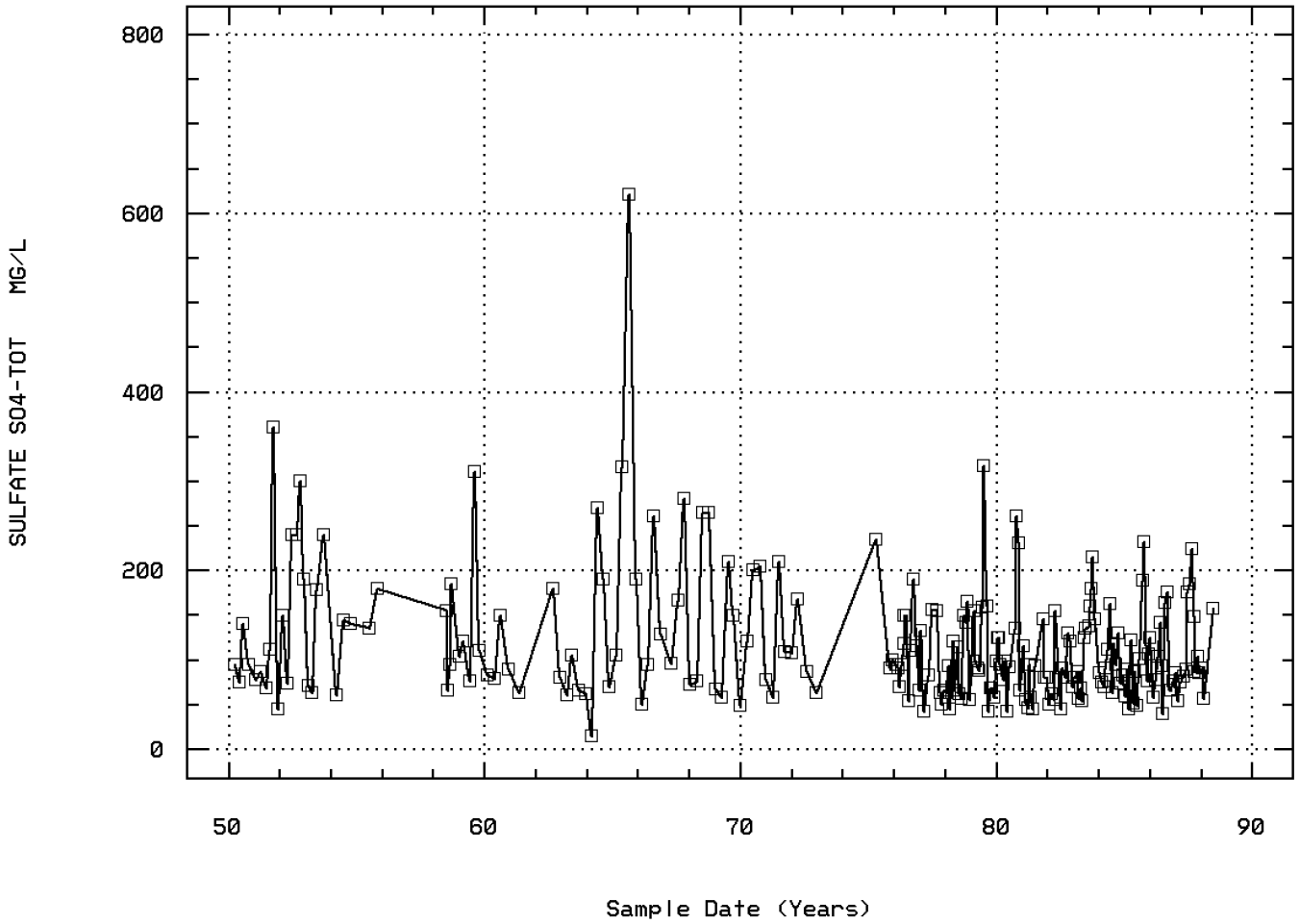
CHLORIDE,TOTAL IN WATER



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00945

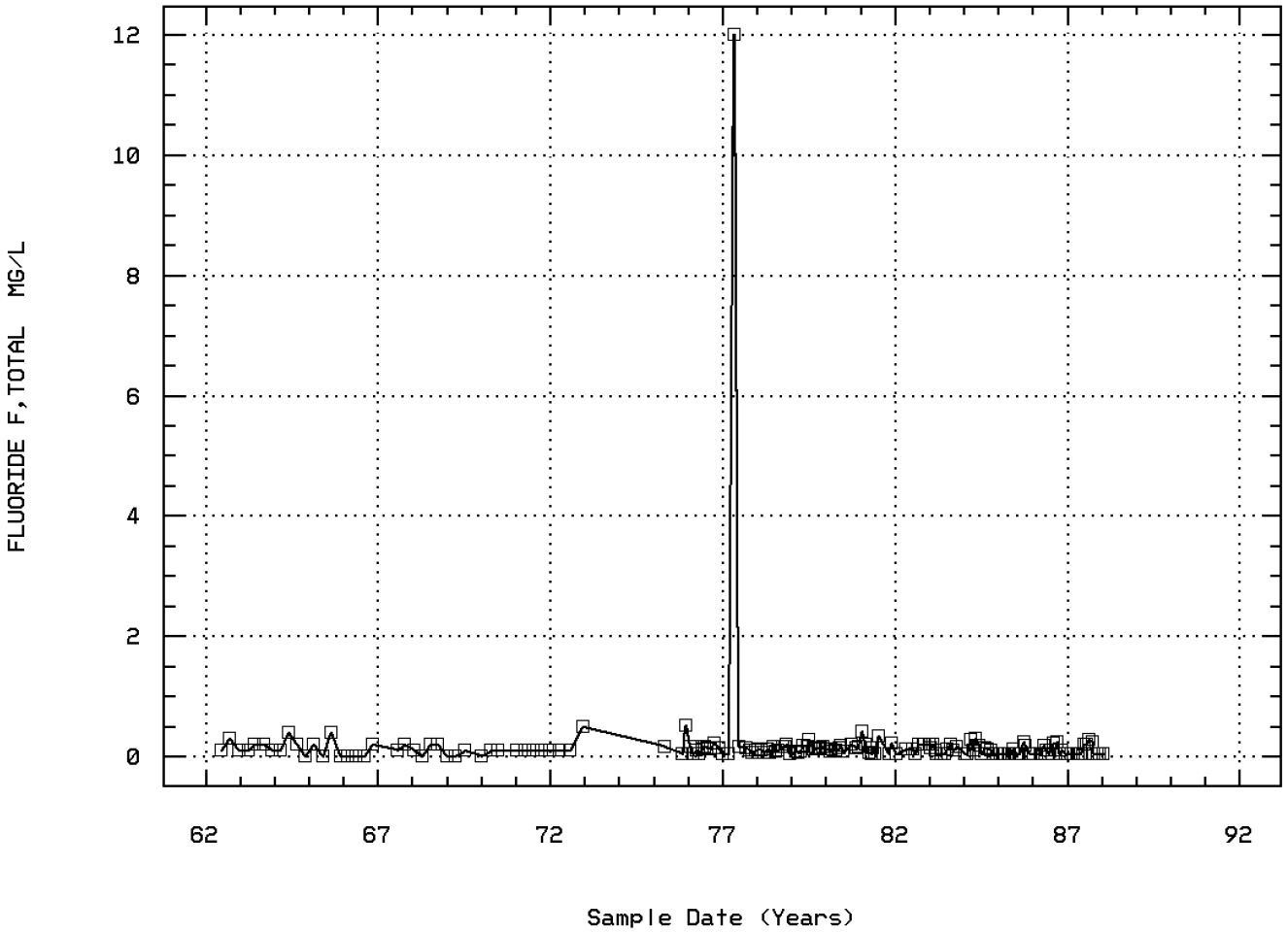
SULFATE, TOTAL (MG/L AS SO4)



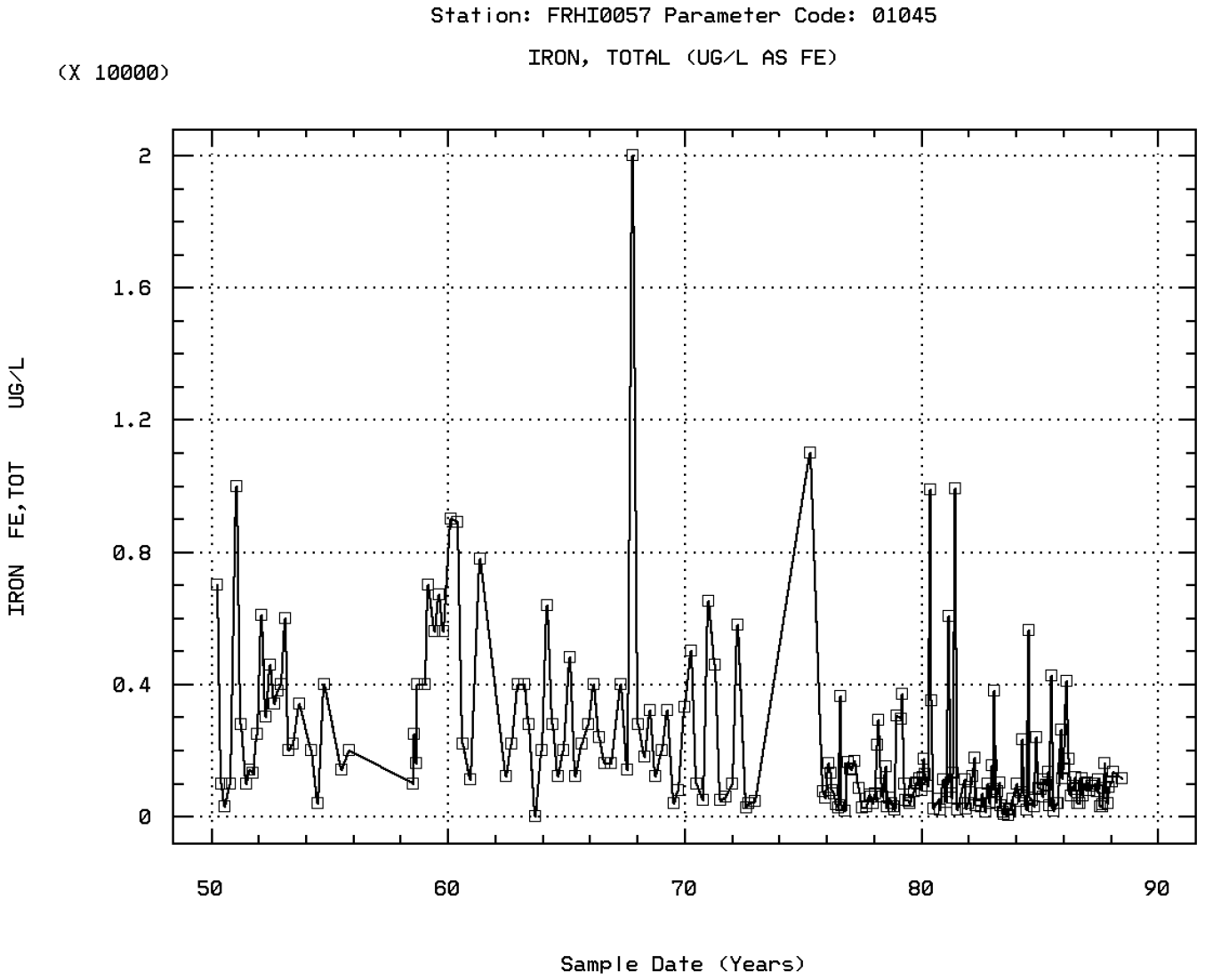
MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00951

FLUORIDE, TOTAL (MG/L AS F)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Annual Analysis for 1950 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	4820.	6905.	15600.	2380.	36287633.333	6023.922	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	3.7	4.3	6.3	3.5	1.787	1.337	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	3.7	3.747	6.3	3.5	2.194	1.481	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	199.526	178.945	316.228	0.501	17178.642	131.067	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	94.5	101.	140.	75.	760.667	27.58	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	1000.	2325.	7000.	300.	9822500.	3134.087	**	**	**	**

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

Annual Analysis for 1951 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	6	8125.	10555.	23600.	1120.	98548870.	9927.178	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	6	4.1	3.833	4.8	2.8	0.743	0.862	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	6	4.004	3.244	4.8	2.8	1.16	1.077	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	6	99.15	570.624	1584.893	15.849	619727.969	787.228	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	3	4.	4.	5.	3.	1.	1.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	6	81.5	124.667	360.	45.	13773.467	117.36	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	6	1950.	3166.667	10000.	1000.	11714666.667	3422.67	**	**	**	**

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

Annual Analysis for 1952 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	6	4580.	4545.5	8800.	578.	12407457.5	3522.422	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	6	3.6	3.583	3.9	3.3	0.066	0.256	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	6	3.589	3.522	3.9	3.3	0.07	0.265	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	6	257.877	300.418	501.187	125.893	28329.711	168.314	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	6	215.	199.	300.	74.	6334.	79.586	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	6	3900.	4150.	6100.	3000.	1207000.	1098.636	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	9260.	9044.	17100.	556.	84592597.333	9197.423	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.2	4.05	4.4	3.4	0.223	0.473	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	4.155	3.84	4.4	3.4	0.282	0.531	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	69.905	144.432	398.107	39.811	29405.507	171.48	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	3	2.	2.	4.	0.	4.	2.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	124.5	138.	240.	63.	7372.667	85.864	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2800.	3400.	6000.	2000.	3386666.667	1840.29	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	3	5220.	5260.	8760.	1800.	12111600.	3480.172	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	3	3.6	4.	4.9	3.5	0.61	0.781	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	3	3.6	3.714	4.9	3.5	0.733	0.856	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	3	251.189	193.335	316.228	12.589	25559.35	159.873	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	3	140.	114.667	144.	60.	2245.333	47.385	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	3	2000.	2133.333	4000.	400.	3253333.333	1803.7	**	**	**	**

** - 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 1955 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	2	1185.	1185.	1330.	1040.	42050.	205.061	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	2	3.95	3.95	4.1	3.8	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	2	3.925	3.925	4.1	3.8	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	2	118.961	118.961	158.489	79.433	3124.965	55.901	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	2	157.5	157.5	180.	135.	1012.5	31.82	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	2	1700.	1700.	2000.	1400.	180000.	424.264	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	2990.	7925.	24400.	1320.	122261966.667	11057.213	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	3.45	3.9	5.5	3.2	1.193	1.092	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	3.382	3.436	5.5	3.2	1.48	1.217	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	415.242	366.151	630.957	3.162	99923.142	316.106	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	125.	125.25	185.	66.	2960.25	54.408	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2050.	2275.	4000.	1000.	1702500.	1304.799	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	5	2340.	2660.4	5260.	690.	4201060.8	2049.649	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	5	3.9	3.84	4.6	3.2	0.283	0.532	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	5	3.9	3.62	4.6	3.2	0.343	0.586	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	5	125.893	239.639	630.957	25.119	59363.02	243.645	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	2	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	5	110.	144.	310.	76.	8878.	94.223	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	5	5600.	5780.	7000.	4000.	1392000.	1179.83	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	4875.	5550.	9610.	2840.	10299666.667	3209.309	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.	3.975	4.1	3.8	0.022	0.15	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	3.989	3.955	4.1	3.8	0.023	0.152	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	102.663	110.812	158.489	79.433	1489.952	38.6	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	85.5	100.	150.	79.	1128.667	33.596	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	5550.	5300.	9000.	1100.	17966666.667	4238.71	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	1	18400.	18400.	18400.	18400.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	1	63.096	63.096	63.096	63.096	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	1	63.	63.	63.	63.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	1	7800.	7800.	7800.	7800.	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 1962 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	3	23.	17.	25.	3.	148.	12.166	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	3	4900.	4251.667	7380.	475.	12235008.333	3497.858	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	2	2745.	2745.	4940.	550.	9636050.	3104.199	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	3	4.8	4.5	5.	3.7	0.49	0.7	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	3	4.8	4.124	5.	3.7	0.702	0.838	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	3	15.849	75.125	199.526	10.	11615.292	107.774	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	3	3.9	3.833	4.3	3.3	0.253	0.503	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	3	3.9	3.646	4.3	3.3	0.306	0.553	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	3	125.893	225.733	501.187	50.119	58341.763	241.54	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	3	115.	101.667	130.	60.	1358.333	36.856	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	3	4.	3.667	5.	2.	2.333	1.528	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	2	130.	130.	180.	80.	5000.	70.711	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	3	0.1	0.167	0.3	0.1	0.013	0.115	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	3	2200.	2466.667	4000.	1200.	2013333.333	1418.92	**	**	**	**

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

Annual Analysis for 1963 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	12.	12.25	21.7	3.3	73.177	8.554	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	6935.	11447.5	30200.	1720.	163255691.667	12777.155	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	2	5112.5	5112.5	8925.	1300.	29070312.5	5391.689	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.5	4.625	5.5	4.	0.563	0.75	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.26	4.273	5.5	4.	0.727	0.853	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	55.	53.291	100.	3.162	2916.82	54.008	**	**	**	**

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

Annual Analysis for 1963 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.1	4.3	5.3	3.7	0.487	0.698	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	4.089	4.037	5.3	3.7	0.579	0.761	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	81.548	91.908	199.526	5.012	6676.083	81.707	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	4	1.5	2.	5.	0.	6.	2.449	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	65.	96.5	200.	56.	4779.667	69.135	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	4.	3.75	7.	0.	8.917	2.986	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	64.	73.25	105.	60.	454.25	21.313	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.15	0.15	0.2	0.1	0.003	0.058	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2400.	2200.	4000.	0.	2826666.667	1681.269	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	16.65	16.1	24.4	6.7	65.82	8.113	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	2925.	11166.	38300.	514.	330319757.333	18174.701	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	4	4105.	13417.5	45000.	460.	448999225.	21189.602	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.	4.	5.	3.	0.667	0.816	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.	3.519	5.	3.	0.975	0.987	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	100.	302.5	1000.	10.	218025.	466.931	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	3.75	4.	5.1	3.4	0.607	0.779	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	3.682	3.687	5.1	3.4	0.737	0.859	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	208.114	205.57	398.107	7.943	33172.349	182.133	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	2	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	116.	116.	188.	44.	4320.	65.727	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	7.5	9.5	18.	5.	33.667	5.802	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	130.	136.25	270.	15.	13289.583	115.28	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.15	0.175	0.4	0.	0.029	0.171	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2400.	3100.	6400.	1200.	5266666.667	2294.922	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	15.25	14.425	23.9	3.3	114.836	10.716	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	2150.	2428.5	4970.	444.	3541595.667	1881.913	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	4	3630.	3970.	8160.	460.	12244066.667	3499.152	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.	3.75	4.	3.	0.25	0.5	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.	3.488	4.	3.	0.341	0.584	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	100.	325.	1000.	100.	202500.	450.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	3.9	3.8	4.	3.4	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	3.889	3.723	4.	3.4	0.088	0.296	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	129.245	189.149	398.107	100.	20166.207	142.008	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	167.5	206.75	350.	142.	9368.917	96.793	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	11.5	10.5	14.	5.	15.	3.873	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	252.5	307.5	620.	105.	50841.667	225.481	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.1	0.15	0.4	0.	0.037	0.191	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2500.	2750.	4800.	1200.	2303333.333	1517.674	**	**	**	**

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Annual Analysis for 1966 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	18.35	16.55	26.7	2.8	146.003	12.083	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	3600.	6942.5	19500.	1070.	71542491.667	8458.279	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	4	5980.	8218.5	19920.	994.	66688355.667	8166.294	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.25	4.175	4.8	3.4	0.416	0.645	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.122	3.85	4.8	3.4	0.557	0.746	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	75.506	141.242	398.107	15.849	31807.775	178.347	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.6	4.475	5.2	3.5	0.743	0.862	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	4.274	3.97	5.2	3.5	1.083	1.041	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	53.155	107.212	316.228	6.31	21367.401	146.176	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	4	4.5	4.75	10.	0.	30.25	5.5	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	104.	131.25	265.	52.	8818.25	93.906	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	6.	5.5	9.	1.	11.667	3.416	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	111.	133.	260.	50.	8188.	90.488	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.	0.05	0.2	0.	0.01	0.1	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2000.	2400.	4000.	1600.	1280000.	1131.371	**	**	**	**

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Annual Analysis for 1967 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	2	21.	21.	25.	17.	32.	5.657	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	3	2240.	4490.	9240.	1990.	16937500.	4115.519	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	6322.	6796.	11000.	3066.	15905596.	3988.182	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	2	3.95	3.95	4.4	3.5	0.405	0.636	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	2	3.75	3.75	4.4	3.5	0.485	0.697	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	2	178.019	178.019	316.228	39.811	38203.192	195.456	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	3	4.	3.967	4.1	3.8	0.023	0.153	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	3	4.	3.948	4.1	3.8	0.024	0.154	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	3	100.	112.641	158.489	79.433	1682.323	41.016	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	3	172.	182.	276.	98.	7996.	89.42	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	3	6.	6.333	10.	3.	12.333	3.512	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	3	167.	181.	280.	96.	8611.	92.795	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	3	4000.	8466.667	20000.	1400.	101453333.333	10072.405	**	**	**	**

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Annual Analysis for 1968 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	13.	11.25	19.	0.	66.917	8.18	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	2485.	2408.25	3990.	673.	3083752.25	1756.062	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	4	2392.	2543.5	4730.	660.	4523782.333	2126.919	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	3.95	3.875	4.5	3.1	0.536	0.732	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	3.668	3.503	4.5	3.1	0.72	0.849	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	214.865	313.92	794.328	31.623	132420.999	363.897	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.1	4.05	4.7	3.3	0.497	0.705	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	3.86	3.7	4.7	3.3	0.66	0.812	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	138.154	199.362	501.187	19.953	52110.956	228.278	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	4	0.5	1.	3.	0.	2.	1.414	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	98.	112.	204.	48.	5384.	73.376	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	6.	6.	8.	4.	2.667	1.633	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	170.5	169.5	265.	72.	12163.	110.286	**	**	**	**

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Annual Analysis for 1968 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.15	0.125	0.2	0.	0.009	0.096	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2300.	2250.	3200.	1200.	836666.667	914.695	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	7.	9.	19.	3.	48.667	6.976	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	4220.	5210.	10500.	1900.	14273733.333	3778.059	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	4	6226.	7007.75	12930.	2649.	18431337.583	4293.173	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.85	4.825	5.9	3.7	0.849	0.922	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.782	4.233	5.9	3.7	1.316	1.147	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	16.531	58.462	199.526	1.259	8945.072	94.578	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.8	4.875	6.	3.9	1.069	1.034	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	4.384	4.281	6.	3.9	1.54	1.241	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	41.298	52.372	125.893	1.	3732.746	61.096	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	4	4.5	5.5	13.	0.	33.667	5.802	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	90.	91.	126.	58.	1038.667	32.228	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	6.5	7.5	12.	5.	9.667	3.109	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	108.5	121.25	210.	58.	5215.583	72.219	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	1400.	1600.	3200.	400.	1600000.	1264.911	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	13.5	14.25	27.	3.	116.917	10.813	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	8220.	8740.	17400.	1120.	69995200.	8366.313	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	16780.	12976.667	18650.	3500.	68229633.333	8260.123	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.6	5.025	6.9	4.	1.703	1.305	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.504	4.39	6.9	4.	2.24	1.497	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	31.354	40.708	100.	0.126	2013.891	44.876	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.45	4.65	6.	3.7	1.017	1.008	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	4.322	4.131	6.	3.7	1.376	1.173	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	47.641	73.952	199.526	1.	8165.629	90.364	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	4	3.5	3.75	8.	0.	14.917	3.862	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	145.	128.	174.	48.	3144.	56.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	7.5	7.75	12.	4.	14.917	3.862	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	160.	143.5	205.	49.	5485.667	74.065	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	3	0.1	0.067	0.1	0.	0.003	0.058	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2150.	2450.	5000.	500.	4376666.667	2092.048	**	**	**	**

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

Annual Analysis for 1971 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	16.4	16.95	28.	7.	101.21	10.06	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	4	3560.	5552.5	13200.	1890.	26616025.	5159.072	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	7750.	14600.	34500.	1550.	306617500.	17510.497	**	**	**	**

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Annual Analysis for 1971 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.25	4.575	5.8	4.	0.696	0.834	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	4.225	4.258	5.8	4.	0.83	0.911	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	59.622	55.207	100.	1.585	1901.893	43.611	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	4	4.1	4.575	6.3	3.8	1.343	1.159	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	4	4.1	4.1	6.3	3.8	1.644	1.282	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	4	79.433	79.464	158.489	0.501	4160.043	64.498	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	4	0.	1.5	6.	0.	9.	3.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	116.	111.5	140.	74.	763.667	27.635	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	7.	8.	13.	5.	12.667	3.559	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	93.	113.5	210.	58.	4581.667	67.688	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	4	2600.	3050.	6500.	500.	8936666.667	2989.426	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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Annual Analysis for 1972 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	9	13.5	14.5	24.5	4.5	66.875	8.178	4.5	6.5	23.	24.5
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	9	5420.	8543.333	23500.	1210.	54363900.	7373.188	1210.	3040.	14050.	23500.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	6	344.	373.667	620.	174.	36525.867	191.117	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	7	5.6	5.46	6.4	3.8	1.033	1.016	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	7	5.6	4.547	6.4	3.8	2.006	1.416	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	7	2.512	28.401	158.489	0.398	3405.201	58.354	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	7	5.1	5.071	6.4	3.9	0.916	0.957	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	7	5.1	4.461	6.4	3.9	1.351	1.162	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	7	7.943	34.599	125.893	0.398	2383.947	48.826	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	5	1.	1.2	3.	0.	1.7	1.304	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	2	0.43	0.43	0.5	0.36	0.01	0.099	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	2	0.07	0.07	0.08	0.06	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	4	107.5	107.5	131.	84.	705.667	26.564	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	5.5	5.	6.	3.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	4	97.	106.25	168.	63.	2032.25	45.08	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	4	0.1	0.2	0.5	0.1	0.04	0.2	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	5	450.	1578.	5800.	260.	5651020.	2377.187	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	5	32.	65.8	193.	0.	5958.2	77.189	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	5	1.505	1.409	2.286	0.	0.756	0.869	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			25.668								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	2	10.	10.	20.	0.	200.	14.142	**	**	**	**

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Annual Analysis for 1973 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	2	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	2	11395.	11395.	18100.	4690.	89914050.	9482.302	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	2	260.	260.	275.	245.	450.	21.213	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	2	6.25	6.25	6.5	6.	0.125	0.354	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	2	6.182	6.182	6.5	6.	0.134	0.367	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	2	0.658	0.658	1.	0.316	0.234	0.483	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	2	12.	12.	23.	1.	242.	15.556	**	**	**	**

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Annual Analysis for 1973 - Station FRHI0057

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	08/09/72-01/19/88	2	0.681	0.681	1.362	0.	0.927	0.963	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.796								

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Annual Analysis for 1975 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	2	13.5	13.5	20.	7.	84.5	9.192	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	3	2960.	18120.	49200.	2200.	724619200.	26918.752	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	3	275.	331.667	470.	250.	14508.333	120.451	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	2	6.55	6.55	7.3	5.8	1.125	1.061	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	2	6.088	6.088	7.3	5.8	1.553	1.246	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	2	0.818	0.818	1.585	0.05	1.178	1.085	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	3	6.6	6.133	6.7	5.1	0.803	0.896	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	3	6.6	5.553	6.7	5.1	1.308	1.144	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	3	0.251	2.798	7.943	0.2	19.856	4.456	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	3	13.	18.	28.	13.	75.	8.66	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	3	0.285	0.228	0.3	0.1	0.012	0.111	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	3 ##	0.1	0.313	0.74	0.1	0.137	0.37	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	3	95.	123.333	195.	80.	3908.333	62.517	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	3	7.	8.333	11.	7.	5.333	2.309	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	3	100.	141.667	235.	90.	6558.333	80.984	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	3	0.16	0.243	0.52	0.05	0.06	0.246	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	3	750.	4100.	11000.	550.	35717500.	5976.412	**	**	**	**

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Annual Analysis for 1976 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	6	12.	11.417	19.	0.	43.042	6.561	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	14	3710.	5510.643	16900.	819.	20110282.709	4484.449	1484.5	2497.5	6820.	14700.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	5500.	8130.	18050.	840.	79233700.	8901.331	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	4	11.75	12.05	14.5	10.2	3.577	1.891	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	10	287.5	300.6	500.	190.	9580.267	97.879	191.	207.5	362.5	487.
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	2	7.	7.	7.5	6.5	0.5	0.707	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	2	6.76	6.76	7.5	6.5	0.616	0.785	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	2	0.174	0.174	0.316	0.032	0.04	0.201	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	11	6.6	6.545	7.9	5.4	0.491	0.701	5.48	6.1	7.1	7.74
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	11	6.6	6.119	7.9	5.4	0.691	0.831	5.48	6.1	7.1	7.74
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	11	0.251	0.761	3.981	0.013	1.355	1.164	0.026	0.079	0.794	3.502
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	11	14.	13.727	30.	2.	60.418	7.773	2.	10.	18.	27.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	4	181.	191.	232.	170.	854.667	29.235	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	11	0.24	0.633	4.73	0.1	1.857	1.363	0.1	0.1	0.34	3.856
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	11	0.024	0.047	0.308	0.003	0.008	0.087	0.004	0.01	0.04	0.255
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	10	0.86	1.704	10.03	0.35	8.614	2.935	0.358	0.603	1.02	9.135
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	11	0.07	0.231	1.31	0.05	0.149	0.385	0.05	0.05	0.17	1.156
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	10	0.025	0.029	0.1	0.005	0.001	0.028	0.005	0.009	0.04	0.094
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	11	108.	109.091	195.	40.	1843.291	42.934	47.	76.	124.	188.4
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	9.5	22.583	163.	5.	1968.265	44.365	5.6	8.25	10.75	120.1
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	102.5	108.417	190.	54.	1572.811	39.659	57.3	75.	142.	178.

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Annual Analysis for 1976 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	12	0.125	0.118	0.21	0.05	0.002	0.049	0.05	0.063	0.15	0.192
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	11	800.	1114.545	3650.	150.	1018827.273	1009.37	176.	340.	1600.	3250.
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	10 ##	5.	6.4	17.	3.	16.044	4.006	3.2	5.	6.	16.2

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Annual Analysis for 1977 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	5	10.	9.4	22.	0.	78.8	8.877	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	12	4585.	7651.667	30500.	820.	77819178.788	8821.518	820.	1460.	13287.5	25940.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	5900.	6596.667	10280.	3610.	11486233.333	3389.135	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	6	11.5	11.55	13.4	9.8	2.171	1.473	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	7	205.	258.286	440.	161.	11599.905	107.703	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	4	7.3	7.175	7.4	6.7	0.109	0.33	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	4	7.289	7.068	7.4	6.7	0.125	0.353	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	4	0.051	0.086	0.2	0.04	0.006	0.077	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	8	6.9	6.688	7.3	5.4	0.384	0.62	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	8	6.889	6.181	7.3	5.4	0.677	0.823	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	8	0.129	0.659	3.981	0.05	1.826	1.351	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	8	13.5	13.625	24.	7.	27.125	5.208	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	6	133.	162.	310.	130.	5265.6	72.564	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	8	0.09	0.183	0.78	0.05	0.062	0.249	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	8	0.012	0.018	0.044	0.001	0.	0.018	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	8	0.765	0.744	1.16	0.41	0.077	0.278	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	8 ##	0.04	0.053	0.13	0.01	0.002	0.048	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	8 ##	0.008	0.026	0.09	0.005	0.001	0.036	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	8	87.	92.75	140.	40.	1435.643	37.89	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	8	6.5	11.	31.	5.	91.143	9.547	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	8	73.5	93.125	156.	42.	2226.982	47.191	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	7	0.09	1.799	12.	0.05	20.237	4.499	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	8	625.	766.25	1680.	260.	270141.071	519.751	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	8	30.	93.125	420.	5.	20178.125	142.05	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	8	1.452	1.542	2.623	0.699	0.443	0.665	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			34.799								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	7 ##	5.	4.714	11.	1.	10.238	3.2	**	**	**	**

** - 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 FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	12	13.	12.833	24.	0.	84.697	9.203	0.	3.5	22.75	24.
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	9	4520.	9567.778	31300.	1590.	108934044.444	10437.147	1590.	2550.	15730.	31300.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	6	1885.	2285.667	6000.	4.	4468576.667	2113.901	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	9	11.3	11.411	14.	10.	1.719	1.311	10.	10.15	12.25	14.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	11	4.8	11.627	36.	1.9	135.574	11.644	2.02	2.8	23.	34.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	12	227.5	277.75	450.	160.	9452.568	97.224	168.4	210.	371.25	438.
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	12	6.5	6.45	7.5	5.3	0.288	0.537	5.51	6.125	6.775	7.29
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	12	6.489	6.111	7.5	5.3	0.413	0.643	5.51	6.125	6.775	7.29
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	12	0.325	0.774	5.012	0.032	1.864	1.365	0.07	0.169	0.753	3.808
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	12	6.65	6.458	7.	4.9	0.303	0.55	5.26	6.325	6.7	6.97
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	12	6.647	5.878	7.	4.9	0.669	0.818	5.26	6.325	6.7	6.97
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	12	0.225	1.323	12.589	0.1	12.625	3.553	0.108	0.2	0.475	9.051
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	12	10.	9.833	18.	0.	20.697	4.549	1.5	8.25	12.	17.1

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Annual Analysis for 1978 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	145.	166.667	286.	84.	4856.97	69.692	88.2	101.	224.5	278.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.11	0.137	0.3	0.025	0.007	0.084	0.033	0.073	0.2	0.285
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	12 ##	0.002	0.003	0.011	0.001	0.	0.003	0.001	0.001	0.005	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.56	0.649	1.16	0.43	0.06	0.246	0.436	0.473	0.758	1.142
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	12	0.025	0.051	0.26	0.01	0.005	0.071	0.01	0.01	0.068	0.206
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	12 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	12	88.	119.667	244.	64.	3947.515	62.829	65.2	69.75	166.5	236.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	21.2	26.933	43.4	16.6	97.433	9.871	17.08	18.65	35.15	42.95
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	10.	12.033	32.5	4.4	71.692	8.467	4.7	5.45	17.95	29.14
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12 ##	5.	5.5	11.	5.	3.	1.732	5.	5.	5.	9.2
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	79.	94.167	165.	45.	1779.97	42.19	48.	58.25	135.75	160.5
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	12	0.11	0.112	0.19	0.05	0.002	0.042	0.056	0.073	0.15	0.178
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	12	650.	1137.5	3050.	200.	1053693.182	1026.496	230.	325.	1987.5	3005.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12 ##	12.5	194.375	1000.	5.	98264.915	313.472	5.	6.25	398.75	850.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12 ##	1.097	1.552	3.	0.699	0.783	0.885	0.699	0.774	2.598	2.91
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			35.605								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	12	2.	6.417	54.	1.	226.447	15.048	1.	1.	2.75	39.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	12	0.	1.917	16.	0.	23.72	4.87	0.	0.	0.	13.3

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Annual Analysis for 1979 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	7900.	9650.	18800.	2250.	70772500.	8412.639	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	3	10.	11.	13.	10.	3.	1.732	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	10	6.2	9.15	25.	3.2	53.181	7.292	3.24	4.2	13.	24.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	11	240.	302.455	730.	180.	25370.473	159.281	181.6	193.	360.	667.2
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	11	6.7	6.409	7.1	5.	0.483	0.695	5.1	5.9	7.	7.1
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	11	6.7	5.831	7.1	5.	0.851	0.922	5.1	5.9	7.	7.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	11	0.2	1.476	10.	0.079	8.83	2.972	0.079	0.1	1.259	8.632
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	11	12.	24.364	120.	2.	1167.255	34.165	2.2	4.	28.	104.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	11	156.	205.273	578.	92.	17813.818	133.468	99.2	140.	240.	517.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	11	0.08	0.086	0.2	0.025	0.003	0.056	0.03	0.05	0.1	0.196
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	11 ##	0.001	0.002	0.005	0.001	0.	0.001	0.001	0.001	0.003	0.005
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	11	0.5	0.522	0.77	0.33	0.019	0.139	0.34	0.41	0.6	0.762
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	11	0.01	0.057	0.45	0.01	0.017	0.131	0.01	0.01	0.04	0.368
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	11	88.	115.455	281.	72.	3906.873	62.505	72.6	81.	142.	258.4
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	11	25.6	31.091	82.4	17.8	346.689	18.62	17.92	19.	34.1	74.72
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	11	8.	8.927	18.2	3.9	21.066	4.59	4.	4.4	13.8	17.38
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	10 ##	5.	5.4	10.	4.	2.711	1.647	4.1	5.	5.	9.5
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	11	90.	118.364	317.	42.	6079.255	77.97	45.2	68.	158.	285.6
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	11	0.14	0.138	0.27	0.07	0.003	0.056	0.072	0.08	0.16	0.252
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	10	985.	1292.	3700.	400.	1248017.778	1117.147	405.	487.5	1607.5	3625.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	19	70.	797.105	6000.	5.	3450386.988	1857.522	5.	5.	400.	6000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	19	1.845	1.867	3.778	0.699	1.04	1.02	0.699	0.699	2.602	3.778
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			73.597								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	10 ##	1.	1.7	4.	1.	1.122	1.059	1.	1.	2.25	3.9
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	11	0.	1.818	8.	0.	10.764	3.281	0.	0.	4.	8.

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Annual Analysis for 1980 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	11.5	11.75	19.	5.	60.917	7.805	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	8	13300.	12976.25	42200.	1800.	173478512.5	13171.124	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	8	12.4	12.76	17.12	9.8	5.179	2.276	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	12	8.05	13.75	70.	1.5	364.735	19.098	1.71	3.375	15.2	57.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	12	312.5	338.583	640.	178.	20804.083	144.236	183.1	223.75	380.	623.5
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	3	7.6	7.5	8.	6.9	0.31	0.557	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	3	7.6	7.27	8.	6.9	0.389	0.624	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	3	0.025	0.054	0.126	0.01	0.004	0.063	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	12	6.65	6.642	7.1	5.9	0.135	0.368	5.99	6.425	6.975	7.1
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	12	6.647	6.487	7.1	5.9	0.162	0.402	5.99	6.425	6.975	7.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	12	0.225	0.326	1.259	0.079	0.112	0.335	0.079	0.106	0.378	1.071
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	12	22.	19.75	34.	0.	96.568	9.827	1.5	13.5	25.	32.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	220.	284.167	704.	118.	31643.242	177.885	122.2	148.5	415.5	638.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.1	0.117	0.25	0.025	0.006	0.077	0.025	0.039	0.193	0.241
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	12	0.005	0.005	0.014	0.001	0.	0.005	0.001	0.001	0.009	0.013
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.565	0.582	0.83	0.42	0.014	0.12	0.435	0.483	0.625	0.812
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	11	0.03	0.049	0.24	0.01	0.004	0.065	0.01	0.02	0.04	0.204
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	12	115.5	122.25	212.	67.	1918.932	43.806	70.	95.5	133.5	207.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	11	28.8	32.073	56.8	18.	180.602	13.439	18.	22.4	39.	56.64
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	11	9.	8.741	15.3	0.25	17.229	4.151	1.2	6.8	10.5	15.14
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12 ##	5.	7.167	13.	5.	9.606	3.099	5.	5.	10.25	12.7
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	98.	120.25	260.	42.	4111.295	64.119	48.9	81.5	132.5	251.
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	11	0.12	0.124	0.19	0.08	0.001	0.036	0.08	0.09	0.15	0.186
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	11	1110.	1943.636	9900.	200.	7785505.455	2790.252	206.	520.	1740.	8620.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	10	572.5	1212.75	4000.	10.	2300739.514	1516.819	10.25	33.125	2275.	3970.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	10	2.713	2.474	3.602	1.	0.963	0.981	1.01	1.476	3.334	3.599
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			298.08								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	10	1.	1.9	7.	0.	4.544	2.132	0.	0.75	2.5	6.7
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	12	0.	2.167	22.	0.	40.333	6.351	0.	0.	0.	16.6

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Annual Analysis for 1981 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	4	15.5	14.125	25.	0.5	116.063	10.773	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	10	5.2	27.29	200.	2.	3811.921	61.741	2.05	2.575	14.5	184.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	10	212.5	235.3	375.	178.	4233.122	65.062	178.7	188.75	255.	370.5
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	10	6.35	6.35	6.6	6.1	0.032	0.178	6.11	6.2	6.525	6.6
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	10	6.347	6.318	6.6	6.1	0.033	0.181	6.11	6.2	6.525	6.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	10	0.45	0.48	0.794	0.251	0.035	0.186	0.251	0.3	0.631	0.778
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	10	16.	15.3	22.	5.	32.9	5.736	5.2	11.5	20.	21.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	10	165.	161.4	238.	62.	2665.822	51.632	66.4	130.	198.5	234.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	10	0.115	0.152	0.28	0.09	0.005	0.074	0.091	0.1	0.243	0.277
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	10	0.003	0.005	0.016	0.001	0.	0.005	0.001	0.002	0.007	0.015
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	10	0.645	0.67	1.14	0.29	0.054	0.232	0.313	0.528	0.785	1.112
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	10	0.04	0.063	0.23	0.01	0.005	0.071	0.01	0.018	0.082	0.222
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	2 ##	0.072	0.072	0.143	0.001	0.01	0.101	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	10	82.5	86.6	122.	69.	277.822	16.668	69.2	73.25	97.25	120.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	9	24.	24.656	34.1	19.	21.163	4.6	19.	21.6	27.3	34.1
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	8	6.5	7.925	18.	5.	18.114	4.256	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	10	5.	5.9	11.	3.	6.544	2.558	3.1	4.	8.25	10.8

** - 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 1981 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	10	80.	81.1	145.	45.	1032.544	32.133	45.1	52.75	99.25	142.
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	9	0.14	0.169	0.41	0.05	0.018	0.134	0.05	0.05	0.28	0.41
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	10	790.	2122.	9910.	210.	10525084.444	3244.239	211.	340.	2500.	9526.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	6	1025.	975.	1800.	50.	548750.	740.777	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	6	2.995	2.762	3.255	1.699	0.372	0.61	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			578.015								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	9	0.	0.444	2.	0.	0.528	0.726	0.	0.	1.	2.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	9	0.	3.111	18.	0.	42.111	6.489	0.	0.	5.	18.

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Annual Analysis for 1982 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	7	3680.	7044.286	19000.	840.	54936061.905	7411.887	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	6	12.24	12.62	14.63	11.	2.261	1.504	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/16/78-04/22/82	4	7.25	13.	35.	2.5	225.167	15.006	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	10	250.	248.5	360.	160.	5978.056	77.318	160.	167.5	318.75	357.
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	5	6.5	6.56	7.	6.2	0.083	0.288	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	5	6.5	6.491	7.	6.2	0.089	0.298	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	5	0.316	0.323	0.631	0.1	0.037	0.194	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	10	6.4	6.42	6.9	6.1	0.055	0.235	6.11	6.275	6.55	6.88
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	10	6.4	6.37	6.9	6.1	0.058	0.241	6.11	6.275	6.55	6.88
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	10	0.398	0.426	0.794	0.126	0.038	0.196	0.133	0.287	0.534	0.778
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	10	13.5	14.4	22.	7.	25.378	5.038	7.2	9.75	18.75	21.9
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	10	169.	179.6	308.	104.	4434.489	66.592	104.	116.	221.5	302.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	10	0.06	0.071	0.16	0.03	0.002	0.039	0.03	0.045	0.087	0.155
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	10	0.006	0.006	0.01	0.001	0.	0.003	0.001	0.003	0.009	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	10	0.56	0.61	0.88	0.43	0.027	0.165	0.432	0.45	0.768	0.871
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	10	0.03	0.034	0.07	0.01	0.	0.017	0.011	0.02	0.043	0.068
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	10	85.5	81.6	144.	38.	961.6	31.01	39.4	53.5	98.25	139.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	10	24.5	39.36	171.	16.5	2187.876	46.775	16.55	18.2	31.9	157.9
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	10	5.9	9.15	40.	1.	124.132	11.141	1.29	4.05	8.075	37.1
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	10	5.	5.6	8.	3.	2.711	1.647	3.1	4.75	7.25	8.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	10	75.	85.6	154.	45.	1392.933	37.322	45.5	53.75	122.5	151.6
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	8	0.16	0.141	0.2	0.05	0.005	0.067	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	10	700.	804.	1770.	130.	312648.889	559.15	146.	312.5	1297.5	1746.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	9	130.	358.056	1700.	12.5	287677.778	536.356	12.5	50.	500.	1700.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	9	2.114	2.166	3.23	1.097	0.415	0.644	1.097	1.699	2.699	3.23
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			146.471								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	9	0.	0.222	1.	0.	0.194	0.441	0.	0.	0.5	1.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	10	0.	4.2	16.	0.	46.622	6.828	0.	0.	12.5	15.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	6	4.85	4.283	9.4	0.5	10.526	3.244	**	**	**	**

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Annual Analysis for 1983 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	12	4650.	7923.5	24400.	640.	64836467.	8052.109	670.	1066.5	15425.	22390.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	11	12.	12.292	14.45	10.26	2.078	1.442	10.388	10.95	13.45	14.432
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	13	310.	313.308	590.	160.	17780.231	133.343	166.	191.5	405.	538.
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	8	6.95	6.563	7.5	4.5	1.091	1.045	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	8	6.925	5.364	7.5	4.5	2.733	1.653	**	**	**	**

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Annual Analysis for 1983 - Station FRHI0057

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	06/19/62-06/14/88	8	0.119	4.327	31.623	0.032	122.094	11.05	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	13	6.3	6.331	6.7	6.	0.042	0.206	6.04	6.15	6.5	6.62
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	13	6.3	6.287	6.7	6.	0.044	0.211	6.04	6.15	6.5	6.62
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	13	0.501	0.517	1.	0.2	0.057	0.24	0.246	0.316	0.713	0.918
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	13	12.	13.	18.	7.	16.833	4.103	7.4	9.	17.5	18.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	13	246.	225.154	430.	64.	10629.641	103.1	84.8	143.	308.5	385.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	13	0.14	0.141	0.32	0.02	0.007	0.084	0.028	0.07	0.205	0.28
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	13	0.008	0.008	0.024	0.001	0.	0.006	0.001	0.003	0.011	0.019
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	13	0.64	0.615	0.92	0.41	0.018	0.134	0.426	0.495	0.68	0.84
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	13	0.02	0.087	0.65	0.01	0.03	0.173	0.01	0.015	0.08	0.442
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	9 ##	0.001	0.002	0.005	0.	0.	0.002	0.	0.001	0.003	0.005
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	9	0.001	0.002	0.005	0.001	0.	0.002	0.001	0.001	0.004	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	13	106.	114.154	195.	71.	1514.141	38.912	71.4	81.	138.5	184.6
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	13	29.	29.569	53.5	17.2	86.731	9.313	18.72	22.5	34.	47.02
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	13	7.6	7.408	13.8	4.6	7.032	2.652	4.76	5.	9.	12.08
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	13	6.	6.846	12.	4.	6.974	2.641	4.4	5.	8.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	13	125.	117.	215.	54.	2565.333	50.649	54.8	74.	152.5	201.
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	10	0.11	0.116	0.2	0.05	0.003	0.058	0.05	0.05	0.17	0.2
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	13	340.	656.154	3810.	40.	990292.308	995.134	48.	165.	785.	2690.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	11	100.	235.682	1200.	12.5	131898.864	363.179	12.5	12.5	300.	1076.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	11	2.	1.91	3.079	1.097	0.488	0.698	1.097	1.097	2.477	3.016
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			81.256								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	13	0.	0.308	1.	0.	0.231	0.48	0.	0.	1.	1.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	13	0.	15.846	92.	0.	841.641	29.011	0.	0.	19.	80.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	13	2.1	10.669	68.	1.3	384.251	19.602	1.38	1.75	7.3	55.2

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Annual Analysis for 1984 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	12	9.5	13.5	25.	3.	68.636	8.285	3.6	6.	22.25	25.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	12	9470.	11976.167	42600.	514.	135407998.152	11636.494	1106.8	2640.	18175.	35490.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	12	13.225	13.391	17.15	11.69	2.64	1.625	11.693	11.853	14.518	16.385
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	12	230.	252.5	375.	195.	3197.727	56.548	196.5	202.5	285.	358.5
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	10	6.	6.06	6.75	5.4	0.182	0.427	5.42	5.75	6.413	6.735
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	10	5.989	5.89	6.75	5.4	0.214	0.463	5.42	5.75	6.413	6.735
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	10	1.027	1.29	3.981	0.178	1.392	1.18	0.185	0.398	1.817	3.834
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	12	6.4	6.392	7.	5.3	0.17	0.412	5.57	6.225	6.6	6.91
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	12	6.4	6.124	7.	5.3	0.248	0.498	5.57	6.225	6.6	6.91
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	12	0.398	0.752	5.012	0.1	1.827	1.352	0.13	0.251	0.599	3.698
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	12	14.	12.75	20.	3.	26.205	5.119	4.2	8.5	17.	19.1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	175.	185.417	350.	31.	7892.083	88.837	44.5	138.5	245.5	332.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.135	0.134	0.19	0.001	0.003	0.051	0.034	0.12	0.18	0.19
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	12	0.01	0.011	0.028	0.002	0.	0.009	0.002	0.004	0.017	0.027
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.59	0.575	0.75	0.45	0.011	0.105	0.453	0.473	0.673	0.735
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	12	0.055	0.058	0.12	0.01	0.001	0.034	0.013	0.033	0.085	0.117
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	8	13.75	26.313	83.	0.001	893.349	29.889	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	8	0.015	0.029	0.092	0.001	0.001	0.033	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	12	81.	91.083	159.	71.	658.083	25.653	71.3	72.75	107.25	143.7
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	21.85	23.567	41.3	15.6	51.512	7.177	16.2	19.075	25.65	38.81
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	5.6	6.15	11.1	3.3	4.057	2.014	3.75	5.05	7.475	10.17
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	6.	6.25	8.	3.	2.568	1.603	3.6	5.	8.	8.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	87.5	96.167	162.	63.	849.424	29.145	65.1	73.5	116.5	152.4
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	12	0.1	0.122	0.3	0.04	0.008	0.09	0.043	0.05	0.17	0.294
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	12	665.	1295.	5620.	190.	2371300.	1539.903	226.	470.	1990.	4651.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12	150.	1986.458	20000.	12.5	32387278.93	5690.982	12.5	21.875	800.	14450.

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Annual Analysis for 1984 - Station FRHI0057

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	08/09/72-01/19/88	12	2.167	2.238	4.301	1.097	0.962	0.981	1.097	1.247	2.89	3.964
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			172.863								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	11	0.	8.273	59.	0.	369.018	19.21	0.	0.	1.	53.4
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	12	4.	11.333	52.	0.	253.333	15.916	0.	0.	20.5	44.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	5.45	15.058	117.	2.2	1040.084	32.25	2.35	3.125	10.25	85.26

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Annual Analysis for 1985 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	10	17.	14.65	23.	2.	66.003	8.124	2.1	6.	22.25	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	12	7325.	8947.5	30400.	1750.	66403347.727	8148.825	1900.	2685.	12100.	26140.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	12	12.855	12.923	15.97	11.4	1.744	1.321	11.46	11.753	13.653	15.454
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	12	242.5	265.417	555.	145.	14829.356	121.776	146.5	172.5	305.	519.
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	10	6.5	6.58	6.8	6.5	0.013	0.114	6.5	6.5	6.7	6.79
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	10	6.5	6.568	6.8	6.5	0.013	0.114	6.5	6.5	6.7	6.79
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	10	0.316	0.271	0.316	0.158	0.004	0.063	0.163	0.2	0.316	0.316
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	12	6.25	6.25	6.7	5.8	0.09	0.3	5.83	6.	6.575	6.67
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	12	6.247	6.161	6.7	5.8	0.099	0.314	5.83	6.	6.575	6.67
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	12	0.566	0.691	1.585	0.2	0.197	0.444	0.215	0.267	1.	1.487
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	12	14.	14.583	24.	8.	28.811	5.368	8.	9.25	19.5	22.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	172.	207.667	406.	112.	8171.515	90.396	116.8	147.5	255.	386.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.1	0.098	0.15	0.05	0.001	0.028	0.053	0.083	0.12	0.141
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	12	0.008	0.012	0.026	0.004	0.	0.008	0.005	0.006	0.019	0.025
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.61	0.618	0.84	0.38	0.014	0.12	0.425	0.543	0.693	0.819
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	12	0.055	0.057	0.12	0.03	0.001	0.028	0.03	0.03	0.07	0.111
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	10 ##	0.5	11.4	103.	0.5	1040.044	32.25	0.5	0.5	2.125	93.4
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	10 ##	0.001	0.062	0.5	0.001	0.025	0.157	0.001	0.001	0.036	0.461
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	12	88.5	92.083	178.	48.	1674.083	40.916	48.3	54.5	111.75	170.5
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	27.2	27.042	58.1	6.3	218.384	14.778	8.28	14.05	38.75	53.39
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	6.45	6.725	11.8	3.6	6.617	2.572	3.69	4.125	8.75	11.17
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	5.5	6.583	14.	3.	9.902	3.147	3.3	5.	9.	12.8
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	88.	100.333	232.	45.	3305.879	57.497	45.9	53.	118.	218.8
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	12 ##	0.05	0.08	0.23	0.05	0.004	0.06	0.05	0.05	0.095	0.212
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	12	885.	1177.5	4250.	160.	1368093.182	1169.655	211.	410.	1292.5	3764.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12	115.	283.542	1300.	10.	145009.612	380.801	10.	10.625	450.	1090.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12	2.04	1.961	3.114	1.	0.621	0.788	1.	1.024	2.653	3.013
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			91.381								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	12	6.	8.333	24.	0.	80.606	8.978	0.	0.	17.	22.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	7.3	17.317	89.	1.5	605.447	24.606	1.83	3.7	18.	73.4

** - 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 1986 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	9	18.5	17.567	26.	8.5	30.853	5.555	8.5	12.55	22.	26.
00060	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	9	3540.	8583.333	42400.	1610.	168999825.	12999.993	1610.	1625.	8840.	42400.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	3	7210.	9080.	13820.	6210.	17100700.	4135.299	**	**	**	**
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	12	11.7	11.804	15.6	9.4	3.207	1.791	9.55	10.2	12.81	15.099
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	12	228.5	267.25	436.	120.	9946.568	99.732	138.	192.5	357.25	428.8
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	9	6.6	6.767	7.5	6.3	0.138	0.371	6.3	6.5	7.	7.5
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	9	6.6	6.651	7.5	6.3	0.153	0.391	6.3	6.5	7.	7.5

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Annual Analysis for 1986 - Station FRHI0057

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	06/19/62-06/14/88	9	0.251	0.223	0.501	0.032	0.023	0.153	0.032	0.1	0.325	0.501
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	12	6.05	6.2	7.2	5.8	0.147	0.384	5.83	5.925	6.375	6.99
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	12	6.047	6.093	7.2	5.8	0.16	0.4	5.83	5.925	6.375	6.99
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	12	0.897	0.806	1.585	0.063	0.207	0.455	0.139	0.424	1.194	1.487
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	12	19.	20.167	40.	8.	75.97	8.716	8.6	14.5	25.5	36.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	170.	207.	334.	92.	7702.182	87.762	102.8	137.	309.	331.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.085	0.083	0.14	0.04	0.001	0.029	0.043	0.055	0.1	0.131
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	12	0.008	0.008	0.014	0.004	0.	0.003	0.005	0.006	0.012	0.013
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.48	0.548	0.95	0.35	0.025	0.158	0.377	0.45	0.63	0.866
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	12	0.05	0.059	0.12	0.02	0.001	0.029	0.026	0.04	0.082	0.114
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	12 ##	0.5	0.583	1.	0.5	0.038	0.195	0.5	0.5	0.5	1.
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	12 ##	0.001	0.001	0.001	0.001	0.	0.	0.001	0.001	0.001	0.001
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	12	90.5	97.167	151.	38.	1239.061	35.2	44.9	72.	127.5	150.4
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	24.25	27.733	47.5	12.	114.113	10.682	13.83	19.85	36.625	45.37
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	6.1	6.8	10.3	2.7	6.687	2.586	3.09	4.45	9.4	10.24
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	7.	7.083	11.	4.	3.538	1.881	4.3	6.	8.	10.4
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	85.5	98.583	175.	39.	1914.811	43.759	44.7	65.	137.	171.7
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	10 ##	0.075	0.107	0.23	0.05	0.005	0.073	0.05	0.05	0.183	0.229
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	12	955.	1196.667	4080.	390.	991533.333	995.758	393.	610.	1375.	3381.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12	95.	330.833	1700.	10.	255408.333	505.379	10.	10.	560.	1430.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12	1.923	1.938	3.23	1.	0.692	0.832	1.	1.	2.739	3.132
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			86.661								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	12	6.	18.333	118.	0.	1108.97	33.301	0.	0.	21.5	93.4
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	8.6	19.492	94.	1.3	651.65	25.527	2.14	5.625	24.25	76.3

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Annual Analysis for 1987 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	12	15.5	15.292	28.5	3.	88.703	9.418	3.3	6.125	24.	28.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	9	4230.	6685.556	18800.	300.	41890152.778	6472.26	300.	990.	12285.	18800.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	9	12.22	12.427	14.6	10.7	1.902	1.379	10.7	11.07	13.705	14.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	12	262.	313.083	520.	190.	12387.356	111.298	202.	235.75	418.75	508.
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	12	7.225	7.171	7.8	6.4	0.172	0.415	6.49	6.8	7.475	7.74
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	12	7.224	6.983	7.8	6.4	0.211	0.459	6.49	6.8	7.475	7.74
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	12	0.06	0.104	0.398	0.016	0.012	0.111	0.019	0.034	0.158	0.339
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	12	6.4	6.408	6.9	5.9	0.07	0.264	5.93	6.4	6.5	6.84
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	12	6.4	6.331	6.9	5.9	0.077	0.277	5.93	6.4	6.5	6.84
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	12	0.398	0.467	1.259	0.126	0.107	0.327	0.148	0.316	0.398	1.181
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	12	18.	18.083	28.	12.	23.72	4.87	12.	13.25	20.	26.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	12	181.	220.667	368.	112.	7423.515	86.16	123.4	156.	317.	357.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.12	0.133	0.23	0.07	0.002	0.049	0.076	0.093	0.178	0.218
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	12	0.008	0.009	0.024	0.002	0.	0.006	0.003	0.005	0.01	0.021
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	12	0.62	0.607	0.73	0.48	0.006	0.076	0.492	0.54	0.663	0.721
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	12	0.04	0.042	0.08	0.02	0.	0.016	0.023	0.03	0.048	0.074
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	12 ##	0.001	0.001	0.001	0.001	0.	0.	0.001	0.001	0.001	0.001
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	12	87.	104.417	175.	60.	1455.538	38.152	64.5	81.	141.	171.7
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	12	25.9	29.842	48.1	16.6	106.61	10.325	17.77	22.725	38.975	47.65
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	12	6.35	7.933	13.8	4.7	9.513	3.084	4.94	5.95	10.8	13.47
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	8.	8.583	16.	5.	8.811	2.968	5.	7.	10.	14.2
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	12	88.	115.917	224.	54.	2849.174	53.378	60.3	82.	168.25	212.3
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	12 ##	0.05	0.109	0.28	0.05	0.008	0.09	0.05	0.05	0.198	0.268
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	13	860.	788.462	1600.	290.	145447.436	381.376	294.	365.	1010.	1408.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	12	60.	195.833	1500.	10.	172662.879	415.527	10.	17.5	165.	1110.

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Annual Analysis for 1987 - Station FRHI0057

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	08/09/72-01/19/88	12	1.778	1.812	3.176	1.	0.403	0.635	1.	1.151	2.211	2.914
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			64.914								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	12	0.	1.833	20.	0.	33.061	5.75	0.	0.	0.	14.6
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	4.2	6.092	18.	0.5	26.406	5.139	0.71	2.375	9.275	15.9

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Annual Analysis for 1988 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	3	5.	9.267	21.3	1.5	111.663	10.567	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	1	342.	342.	342.	342.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/19/62-06/14/88	3	7.1	7.1	7.2	7.	0.01	0.1	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	3	7.1	7.092	7.2	7.	0.01	0.1	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	3	0.079	0.081	0.1	0.063	0.	0.018	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	3	6.3	6.3	6.4	6.2	0.01	0.1	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	3	6.3	6.292	6.4	6.2	0.01	0.1	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	3	0.501	0.51	0.631	0.398	0.014	0.117	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	3	18.	17.333	18.	16.	1.333	1.155	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	3	0.13	0.15	0.22	0.1	0.004	0.062	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	3	0.006	0.006	0.008	0.004	0.	0.002	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	3	0.69	0.687	0.76	0.61	0.006	0.075	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	3	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	03/14/83-01/19/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	3	87.	91.333	127.	60.	1136.333	33.71	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	3	91.	101.667	157.	57.	2585.333	50.846	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	3	1140.	1173.333	1330.	1050.	20433.333	142.945	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	1	20.	20.	20.	20.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	1	1.301	1.301	1.301	1.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			20.								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	47	22.	21.053	28.5	8.	20.23	4.498	13.9	19.	24.	26.76
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	50	1740.	2924.32	24400.	444.	14763379.651	3842.314	587.5	1107.5	3415.	5400.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	41	2380.	4988.024	42600.	300.	71125068.424	8433.568	568.	840.	4460.	16496.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	33	11.3	11.688	17.15	9.4	2.685	1.638	10.04	10.9	12.105	13.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	22	5.	7.564	42.	1.	75.365	8.681	2.43	2.5	10.	15.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-12/18/72	16	0.	2.5	25.	0.	40.	6.325	0.	0.	3.75	11.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	47	333.	353.894	730.	120.	20170.662	142.023	192.	235.	436.	582.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-06/14/88	37	8.	7.97	11.	4.5	2.372	1.54	5.32	7.	9.	9.84
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-08/02/72	15	0.8	0.987	4.6	0.	1.3	1.14	0.	0.3	1.2	2.92
00400p	PH (STANDARD UNITS)	06/19/62-06/14/88	47	6.3	5.629	7.6	3.	2.126	1.458	3.4	4.3	6.7	7.42
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	47	6.3	3.992	7.6	3.	4.864	2.205	3.4	4.3	6.7	7.42
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	47	0.501	101.84	1000.	0.025	57830.582	240.48	0.038	0.2	50.119	398.107
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	79	6.	5.166	7.2	2.8	1.987	1.41	3.3	3.7	6.4	6.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	79	6.	3.83	7.2	2.8	3.794	1.948	3.3	3.7	6.4	6.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	79	1.	147.865	1584.893	0.063	82976.258	288.056	0.2	0.398	199.526	501.187
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	60	10.	11.333	43.	0.	100.904	10.045	0.	2.	16.75	24.9
00436p	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-04/13/83	38	4.5	6.868	28.	0.	50.982	7.14	0.	0.	12.	18.
00437p	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	40	39.	41.975	108.	0.	748.23	27.354	4.4	21.	63.5	80.
00500	RESIDUE, TOTAL (MG/L)	06/19/62-08/02/72	16	357.5	375.875	755.	138.	26657.85	163.272	168.8	248.5	482.	657.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	40	253.	256.225	578.	92.	11762.64	108.456	131.	156.	326.	402.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-06/14/88	18	7.5	9.667	30.	2.	54.471	7.38	2.	5.	11.25	21.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	44	0.105	0.232	4.73	0.001	0.488	0.699	0.028	0.07	0.188	0.255
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	43	0.006	0.017	0.308	0.001	0.002	0.046	0.001	0.002	0.014	0.024
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	44	0.515	0.749	10.03	0.36	2.063	1.436	0.415	0.45	0.607	0.71
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	45	0.03	0.066	0.65	0.01	0.013	0.113	0.01	0.02	0.055	0.12
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	31 ##	0.001	0.032	0.5	0.001	0.008	0.092	0.001	0.001	0.03	0.092
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	60	125.	134.733	350.	38.	3648.572	60.403	75.1	85.25	163.5	211.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	37	30.	36.584	171.	6.3	731.76	27.051	17.84	23.7	42.15	57.06
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	37	7.9	9.38	40.	0.25	55.355	7.44	3.86	5.6	10.2	14.68
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	59	7.	10.508	163.	3.	425.22	20.621	5.	5.	10.	12.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	77	145.	157.753	620.	39.	8141.32	90.229	62.8	93.5	195.	265.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/19/62-01/04/72	13	0.2	0.17	0.4	0.	0.012	0.11	0.004	0.1	0.2	0.36
00951p	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	54	0.135	0.15	0.4	0.	0.006	0.08	0.05	0.1	0.2	0.255
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	78	625.	1488.718	20000.	0.	6567408.725	2562.696	199.	300.	1600.	3820.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-06/14/88	24	785.	864.583	2800.	90.	382756.341	618.673	185.	302.5	1167.5	1700.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-06/14/88	34	1800.	3178.529	16000.	200.	11896382.62	3449.113	275.	987.5	4025.	7950.
01501	ALPHA, TOTAL	10/16/67-04/11/84	23 ##	1.	1.326	3.	0.5	0.582	0.763	0.5	1.	1.5	3.
03501	BETA, TOTAL	10/16/67-04/11/84	23	3.	3.435	11.	1.	6.802	2.608	1.	1.5	4.	8.6
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	11	20.	70.091	340.	0.	13312.491	115.38	0.	0.	110.	320.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	11	1.301	1.093	2.531	0.	0.968	0.984	0.	0.	2.041	2.501
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			12.401								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	44	70.	1028.045	20000.	0.	10441523.893	3231.335	10.	12.5	415.	2750.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	44	1.841	1.993	4.301	0.	0.906	0.952	1.	1.097	2.618	3.389
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			98.394								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	41	0.	3.	54.	0.	91.1	9.545	0.	0.	2.	5.
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-11/13/84	34	0.005	604.278	7749.	0.	4008079.118	2002.019	0.	0.	0.05	2611.05
46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	06/19/62-10/16/80	11	8.	12.636	70.	0.	424.855	20.612	0.	0.	20.	60.2
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	37	0.	10.459	118.	0.	582.7	24.139	0.	0.	13.	20.8

** - 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 #2: 11/01 to 3/14 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	47	5.	5.577	20.	0.	17.564	4.191	0.	3.	9.	10.4
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	41	5250.	9833.902	42400.	820.	98355819.39	9917.45	2220.	3580.	14900.	23580.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	41	7900.	10810.244	45000.	1750.	82892667.239	9104.541	2250.	3807.	16250.	19736.

** - Less than 9 observations ## - Computed 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 3/14 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	35	12.66	12.51	15.6	9.8	2.512	1.585	10.	11.42	13.65	14.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	19	15.	22.074	105.	1.5	762.742	27.618	3.	10.	20.	85.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-12/18/72	14	0.	1.393	5.	0.	4.468	2.114	0.	0.	3.125	5.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	57	225.	247.281	585.	145.	6631.42	81.434	168.2	194.	272.5	364.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-06/14/88	31	12.	11.452	17.8	5.5	5.811	2.411	7.18	11.	12.8	13.8
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-08/02/72	13	1.2	1.485	4.	0.	1.068	1.033	0.2	0.8	2.05	3.36
00400p	PH (STANDARD UNITS)	06/19/62-06/14/88	48	6.5	6.234	8.	4.	1.028	1.014	4.59	5.625	6.9	7.4
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	48	6.5	5.053	8.	4.	2.452	1.566	4.59	5.625	6.9	7.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	48	0.316	8.842	100.	0.01	605.079	24.598	0.04	0.126	2.383	25.769
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	82	6.3	5.889	7.3	3.7	0.918	0.958	4.1	5.2	6.5	6.8
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	82	6.3	4.775	7.3	3.7	2.175	1.475	4.1	5.2	6.5	6.8
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	82	0.501	16.799	199.526	0.05	1638.31	40.476	0.158	0.316	6.31	79.433
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	76	12.	11.829	34.	0.	57.61	7.59	2.	5.	18.	22.
00436p	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-04/13/83	32	0.	0.656	12.	0.	5.007	2.238	0.	0.	0.	2.
00437p	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	33	10.	12.364	42.	0.	120.989	10.999	0.	3.	20.	30.4
00500	RESIDUE, TOTAL (MG/L)	06/19/62-08/02/72	13	165.	196.846	335.	120.	4951.141	70.364	122.	144.	266.	317.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	53	156.	169.962	458.	62.	4582.691	67.696	101.6	130.	197.	247.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-06/14/88	16	12.5	33.125	160.	5.	2641.983	51.4	5.	8.25	19.	160.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	58	0.11	0.138	0.78	0.04	0.012	0.109	0.05	0.09	0.143	0.241
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	56	0.006	0.006	0.038	0.001	0.	0.006	0.001	0.003	0.008	0.011
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	56	0.645	0.676	1.16	0.35	0.03	0.172	0.47	0.573	0.768	0.906
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	58	0.04	0.079	1.31	0.01	0.032	0.18	0.01	0.02	0.073	0.103
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	29 ##	0.005	0.009	0.106	0.001	0.	0.02	0.001	0.001	0.005	0.013
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	71	80.	87.408	244.	38.	1372.016	37.041	49.2	67.	96.	134.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	46	22.4	24.367	56.	12.9	61.656	7.852	16.88	19.525	27.125	34.03
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	45	6.1	7.238	21.3	1.	14.113	3.757	3.9	5.	8.5	11.82
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	70	6.	7.114	20.	1.	13.146	3.626	4.	5.	8.	11.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	81	80.	87.827	230.	15.	1314.47	36.256	50.8	64.	103.5	131.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/19/62-01/04/72	13	0.01	0.062	0.2	0.	0.006	0.076	0.	0.	0.1	0.2
00951p	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	66	0.085	0.11	0.52	0.	0.01	0.101	0.047	0.05	0.14	0.2
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	80	1255.	2102.	10000.	200.	4240036.456	2059.135	441.	765.	2800.	5880.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-06/14/88	19	390.	518.842	2000.	150.	176476.14	420.091	150.	294.	600.	1000.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-06/14/88	14	1315.	2842.214	12000.	110.	11981844.027	3461.48	115.	508.25	5325.	9500.
01501	ALPHA, TOTAL	10/16/67-04/11/84	24 ##	1.	1.208	5.	0.5	0.911	0.955	0.5	1.	1.	2.25
03501	BETA, TOTAL	10/16/67-04/11/84	24 ##	2.	3.167	16.	1.	11.862	3.444	1.	1.125	3.	8.5
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	12	75.5	3052.333	27000.	0.	62015920.242	7875.019	0.	22.25	768.75	21300.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	12	1.878	2.009	4.431	0.	1.787	1.337	0.	1.327	2.859	4.273
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			102.088								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	51	80.	276.294	1700.	1.	214582.972	463.231	5.	12.5	300.	1140.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	51	1.903	1.788	3.23	0.	0.712	0.844	0.699	1.097	2.477	3.054
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			61.338								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	51	0.	1.608	17.	0.	10.083	3.175	0.	0.	1.	5.
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-11/13/84	36 ##	0.013	0.059	0.75	0.	0.021	0.145	0.	0.	0.05	0.08
46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	06/19/62-10/16/80	9	10.	14.667	42.	0.	266.	16.31	0.	0.	30.	42.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	46	0.	5.	36.	0.	78.	8.832	0.	0.	8.	20.6

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0057

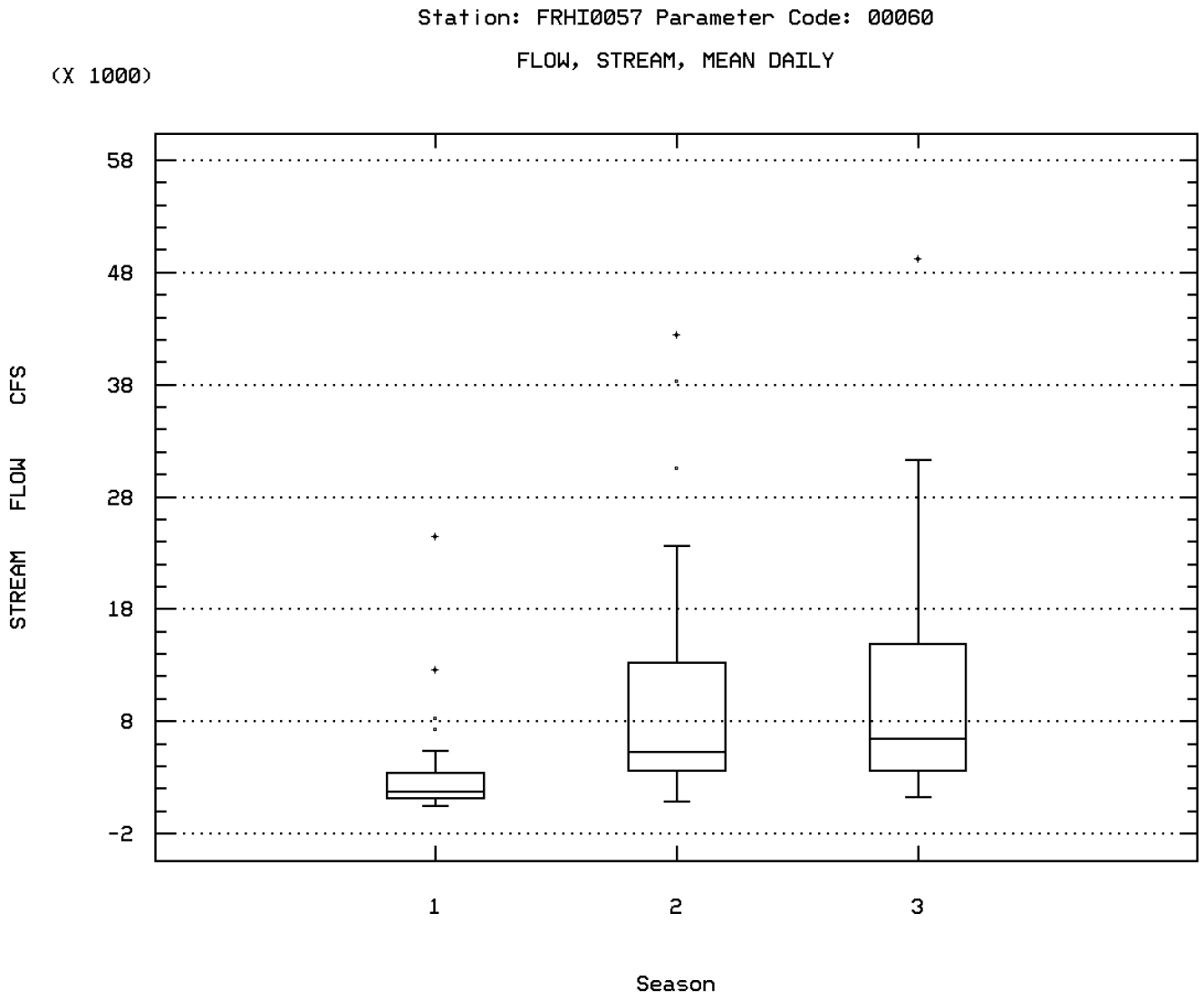
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-06/14/88	33	15.	15.27	26.7	3.	43.673	6.609	7.	9.5	21.05	25.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-09/10/86	44	6440.	9930.	49200.	1280.	92186334.884	9601.372	2245.	3550.	15075.	22100.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/28/87	29	8925.	9837.	42200.	4.	68973965.571	8305.057	1290.	4480.	13270.	17700.
00065	STAGE, STREAM (FEET)	06/30/76-09/28/87	25	12.9	12.896	17.12	10.	2.405	1.551	10.86	11.725	13.945	14.494
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	19	10.	17.542	91.	0.5	517.65	22.752	2.5	3.5	20.	55.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-12/18/72	12	2.5	4.583	25.	0.	52.083	7.217	0.	0.	5.	20.5

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/19/72-06/14/88	41	245.	268.244	470.	150.	6795.389	82.434	178.	190.	328.5	375.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-06/14/88	26	10.	9.854	14.	5.	5.885	2.426	5.98	8.275	11.55	13.02
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-08/02/72	11	0.8	0.864	1.6	0.	0.267	0.516	0.02	0.6	1.4	1.58
00400p	PH (STANDARD UNITS)	06/19/62-06/14/88	32	6.35	5.927	7.5	3.7	1.551	1.246	4.	4.925	6.975	7.425
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-06/14/88	32	6.347	4.602	7.5	3.7	3.362	1.833	4.	4.925	6.975	7.425
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-06/14/88	32	0.45	24.987	199.526	0.032	2484.354	49.843	0.039	0.106	11.942	100.
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-06/14/88	64	6.2	5.672	7.9	3.3	1.499	1.224	3.9	4.4	6.6	7.
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-06/14/88	64	6.2	4.358	7.9	3.3	3.253	1.804	3.9	4.4	6.6	7.
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-06/14/88	64	0.631	43.894	501.187	0.013	9727.054	98.626	0.1	0.251	39.811	125.893
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-06/14/88	57	12.	14.421	120.	0.	265.855	16.305	0.	6.5	18.	25.
00436p	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-04/13/83	30	0.	2.4	26.	0.	37.283	6.106	0.	0.	1.	13.2
00437p	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	30	17.	22.433	96.	0.	548.116	23.412	0.	7.	26.5	65.4
00500	RESIDUE, TOTAL (MG/L)	06/19/62-08/02/72	12	205.	257.5	545.	130.	19407.	139.309	134.8	163.75	288.	539.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/25/75-12/03/87	34	168.	196.265	704.	31.	13175.11	114.783	101.	136.	248.5	296.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-06/14/88	13	10.	13.077	30.	1.	89.41	9.456	2.6	5.	20.	29.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/72-06/14/88	40	0.1	0.128	0.36	0.02	0.007	0.086	0.032	0.065	0.19	0.276
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/25/75-06/14/88	40	0.008	0.011	0.044	0.001	0.	0.011	0.001	0.002	0.014	0.031
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/19/72-06/14/88	40	0.57	0.626	1.16	0.29	0.043	0.207	0.414	0.478	0.745	0.993
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-06/14/88	40	0.05	0.079	0.74	0.01	0.015	0.122	0.01	0.03	0.07	0.219
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-01/19/88	26 ##	0.004	0.014	0.143	0.001	0.001	0.031	0.001	0.001	0.006	0.052
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-06/14/88	52	99.	105.865	195.	48.	1283.962	35.832	64.6	77.25	129.25	165.3
00916	CALCIUM, TOTAL (MG/L AS CA)	01/16/78-12/03/87	31	25.6	27.148	44.	13.7	72.723	8.528	17.36	19.4	33.9	41.04
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/78-12/03/87	31	7.	8.016	20.4	3.9	13.055	3.613	4.44	5.4	9.1	13.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	51	5.	5.922	14.	0.	5.354	2.314	3.2	5.	7.	9.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-06/14/88	64	90.	105.781	315.	42.	3060.523	55.322	54.5	68.	124.25	171.5
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/19/62-01/04/72	11	0.1	0.091	0.4	0.	0.015	0.122	0.	0.	0.1	0.36
00951p	FLUORIDE, TOTAL (MG/L AS F)	06/19/62-01/19/88	49	0.1	0.351	12.	0.	2.892	1.7	0.05	0.05	0.15	0.2
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-06/14/88	64	1200.	2397.5	11000.	140.	6761942.857	2600.374	335.	762.5	2975.	6400.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-06/14/88	14	400.	497.	1250.	0.	105461.385	324.748	110.	300.	647.5	1125.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-06/14/88	17	1200.	4029.	20000.	0.	33204927.	5762.372	88.	200.	5100.	16800.
01501	ALPHA, TOTAL	10/16/67-04/11/84	16 ##	1.	1.25	4.	0.5	0.933	0.966	0.5	0.5	1.5	3.3
03501	BETA, TOTAL	10/16/67-04/11/84	16 ##	1.75	2.406	11.	1.	6.007	2.451	1.	1.	2.75	6.1
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	10	79.5	1201.5	11000.	0.	11870704.056	3445.389	0.	5.25	309.75	9939.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	10	1.835	1.713	4.041	0.	1.541	1.241	0.	0.634	2.487	3.896
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			51.636								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	36	90.	461.75	3700.	5.	573879.893	757.549	10.	25.	595.	1590.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/09/72-01/19/88	36	1.952	2.068	3.568	0.699	0.655	0.809	1.	1.398	2.774	3.2
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			117.082								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/05/71-01/19/88	36	1.	3.528	59.	0.	103.742	10.185	0.	0.	2.	5.6
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-11/13/84	27	0.005	0.036	0.26	0.	0.003	0.056	0.	0.	0.05	0.106
46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	06/19/62-10/16/80	10	0.	12.4	60.	0.	434.267	20.839	0.	0.	21.	57.9
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/16/78-12/03/87	32	0.	6.438	64.	0.	225.996	15.033	0.	0.	3.5	22.2

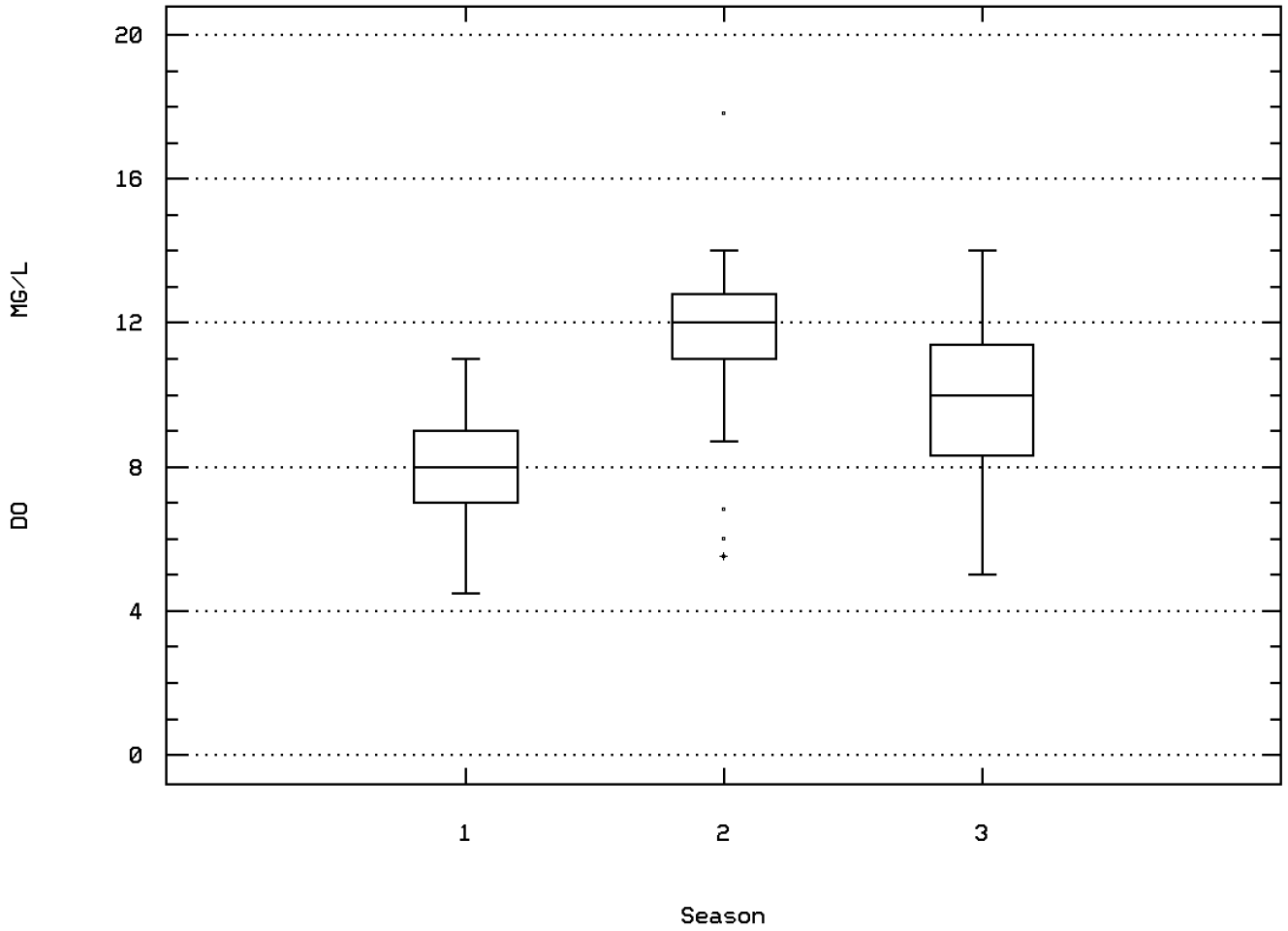
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



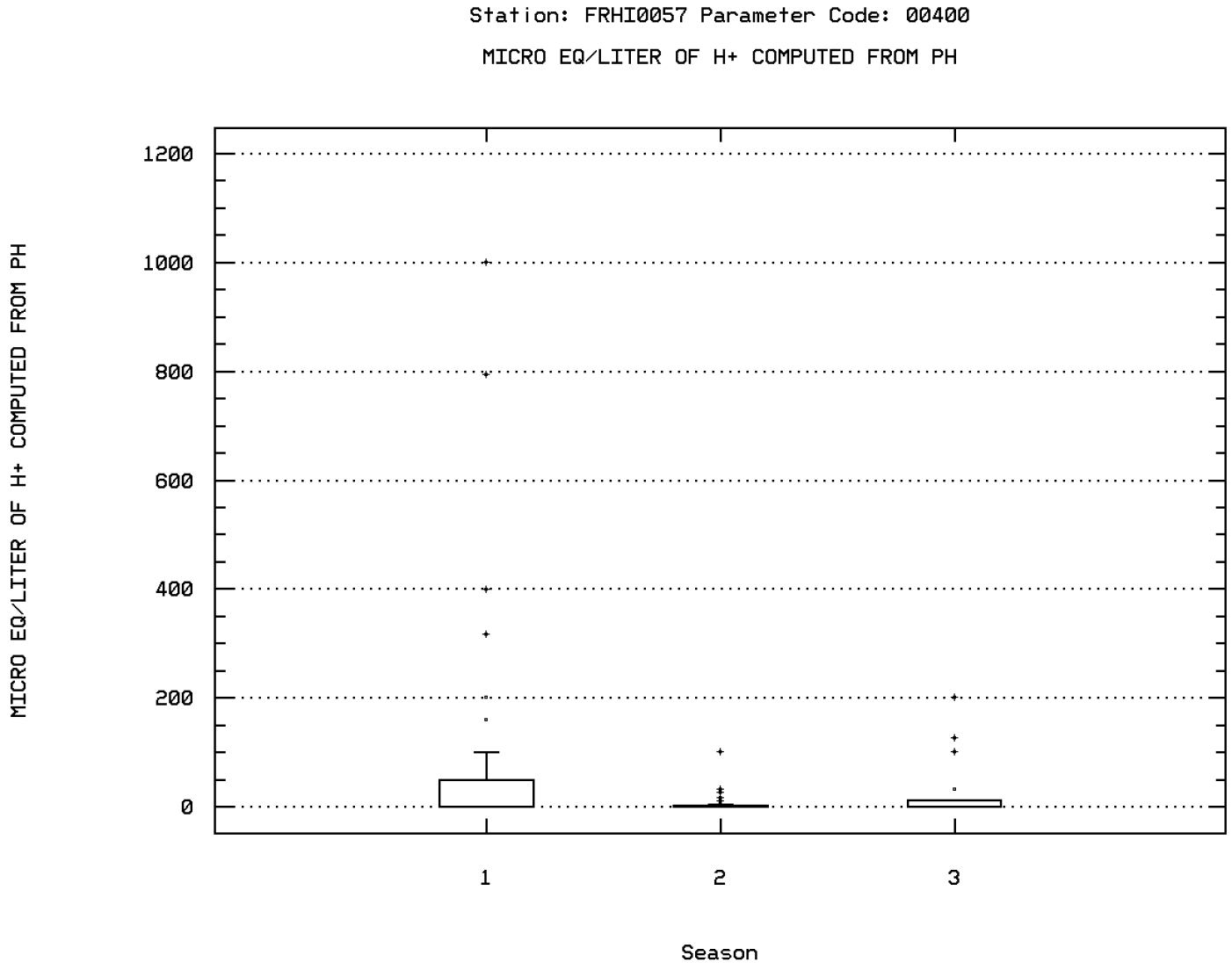
MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00300

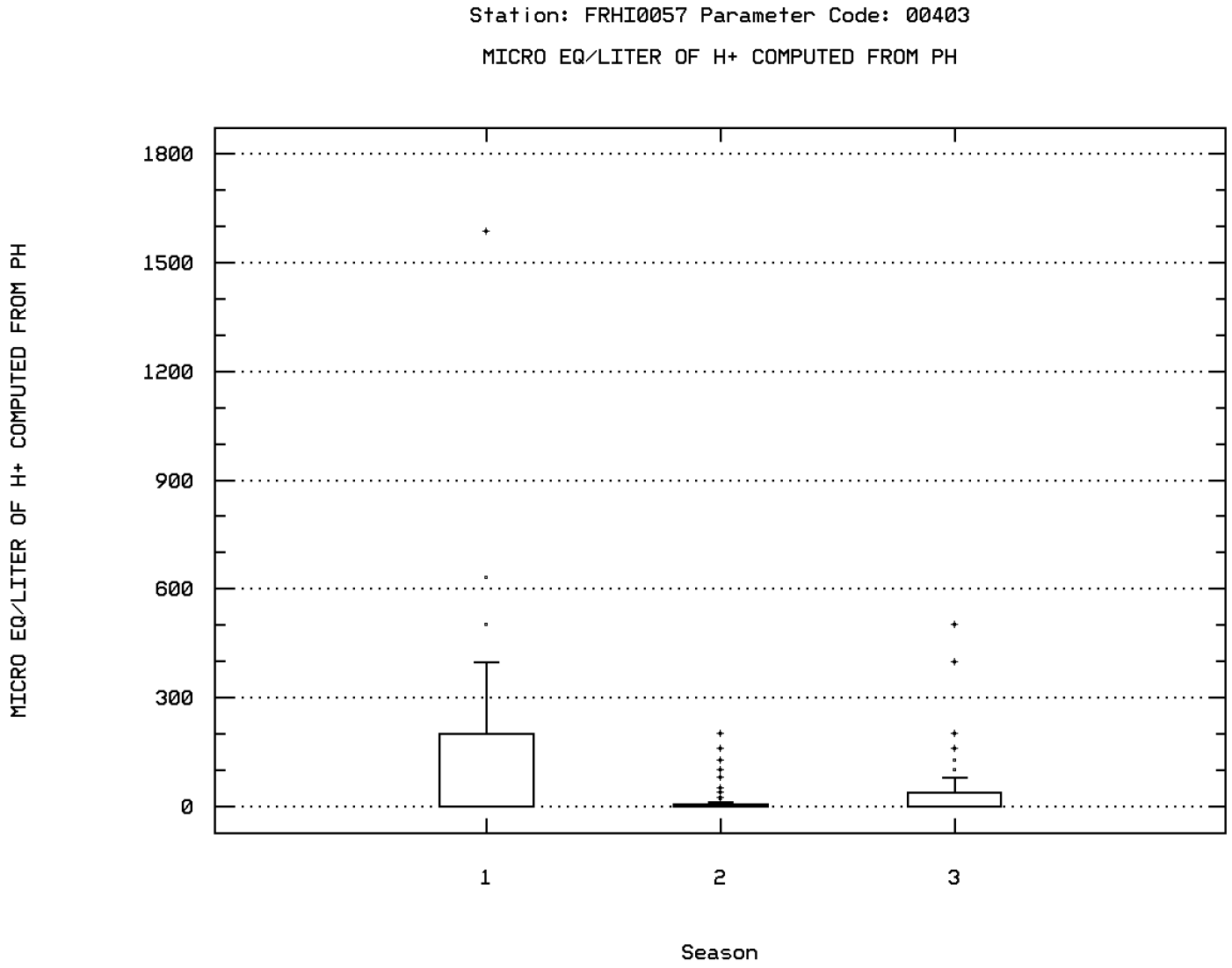
OXYGEN, DISSOLVED



MONONGAHELA RVR-AT GAUGING STA ABV LOCK



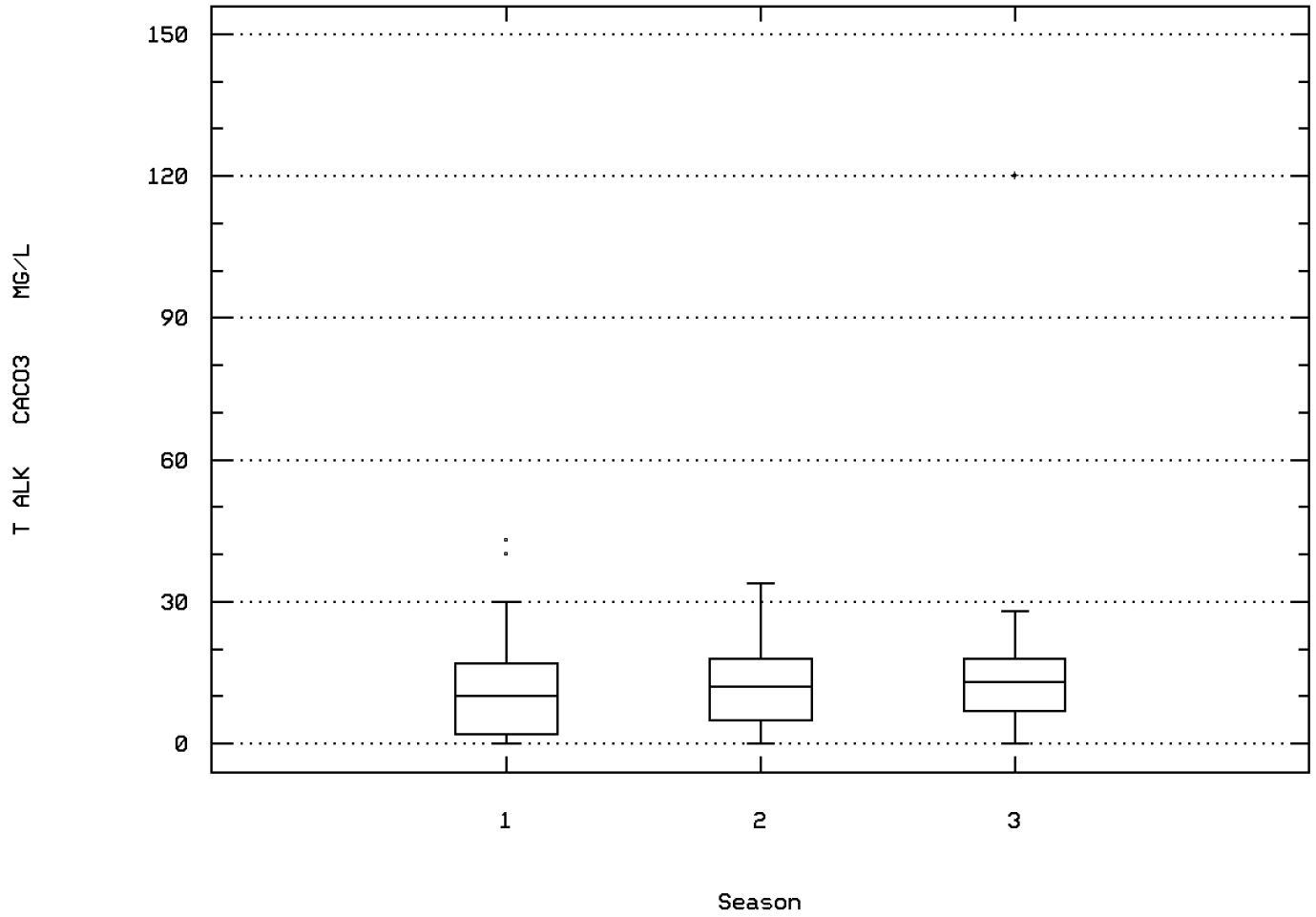
MONONGAHELA RVR-AT GAUGING STA ABV LOCK



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00410

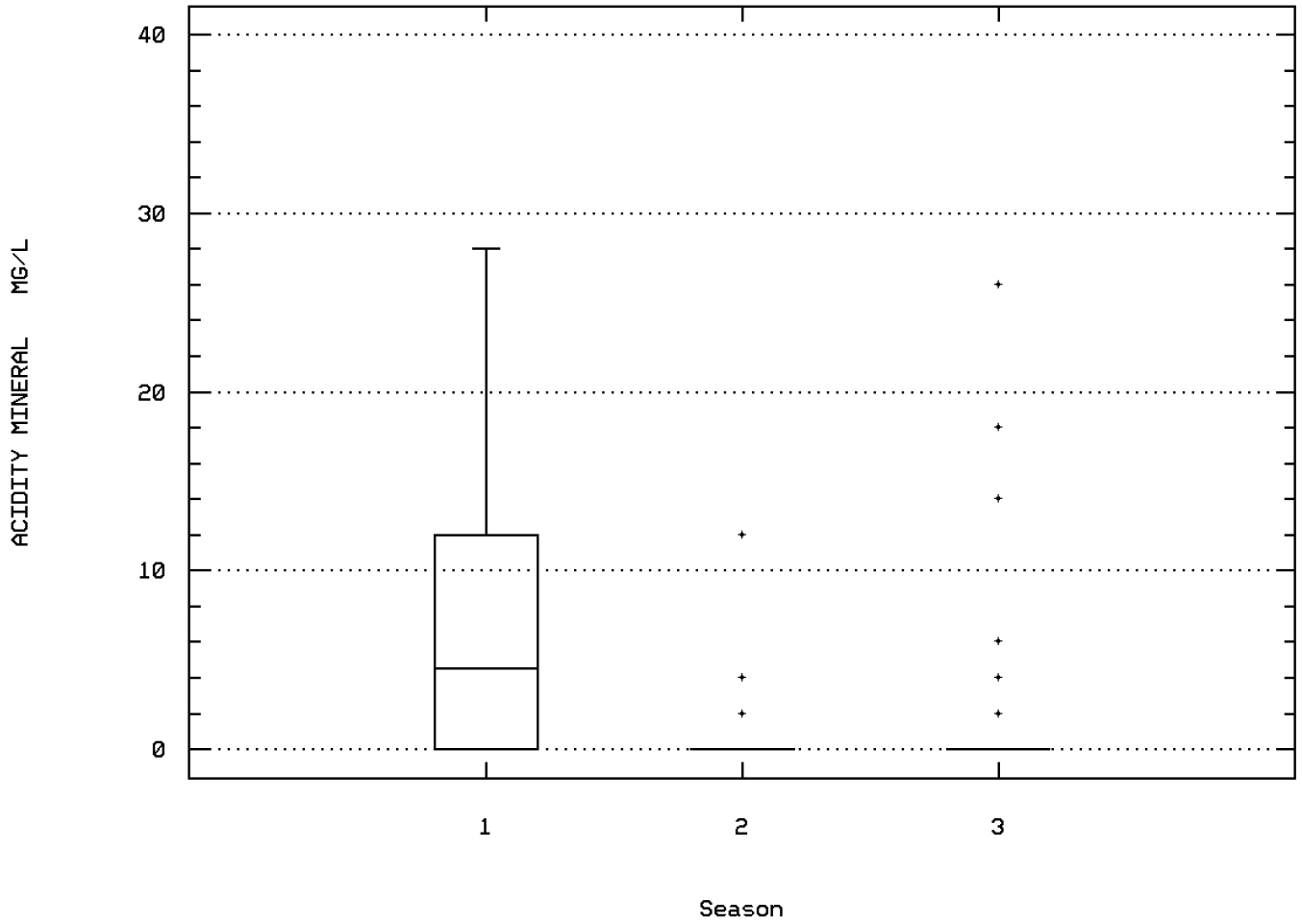
ALKALINITY, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00436

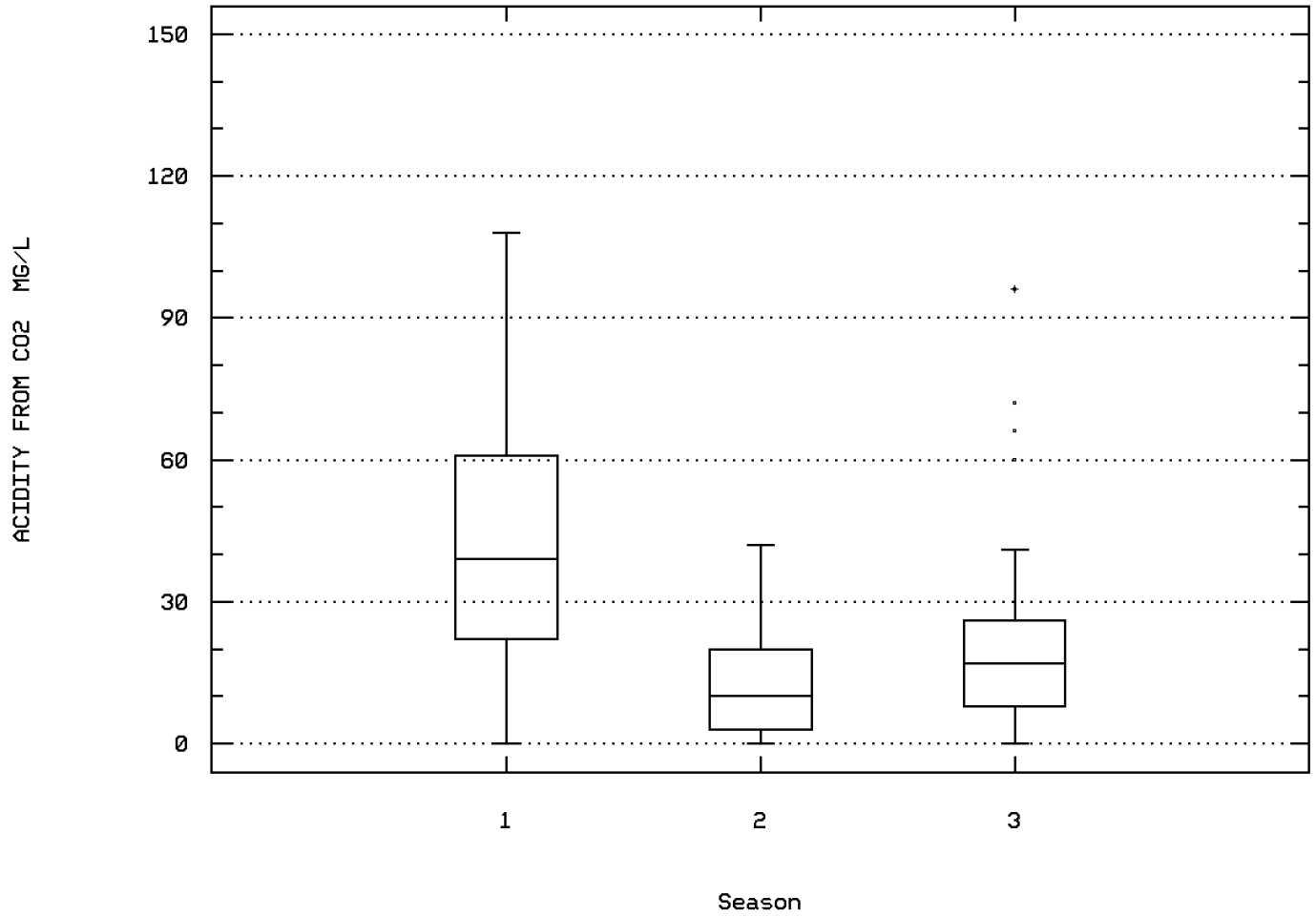
ACIDITY, MINERAL (METHYL ORANGE) (MG/L



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00437

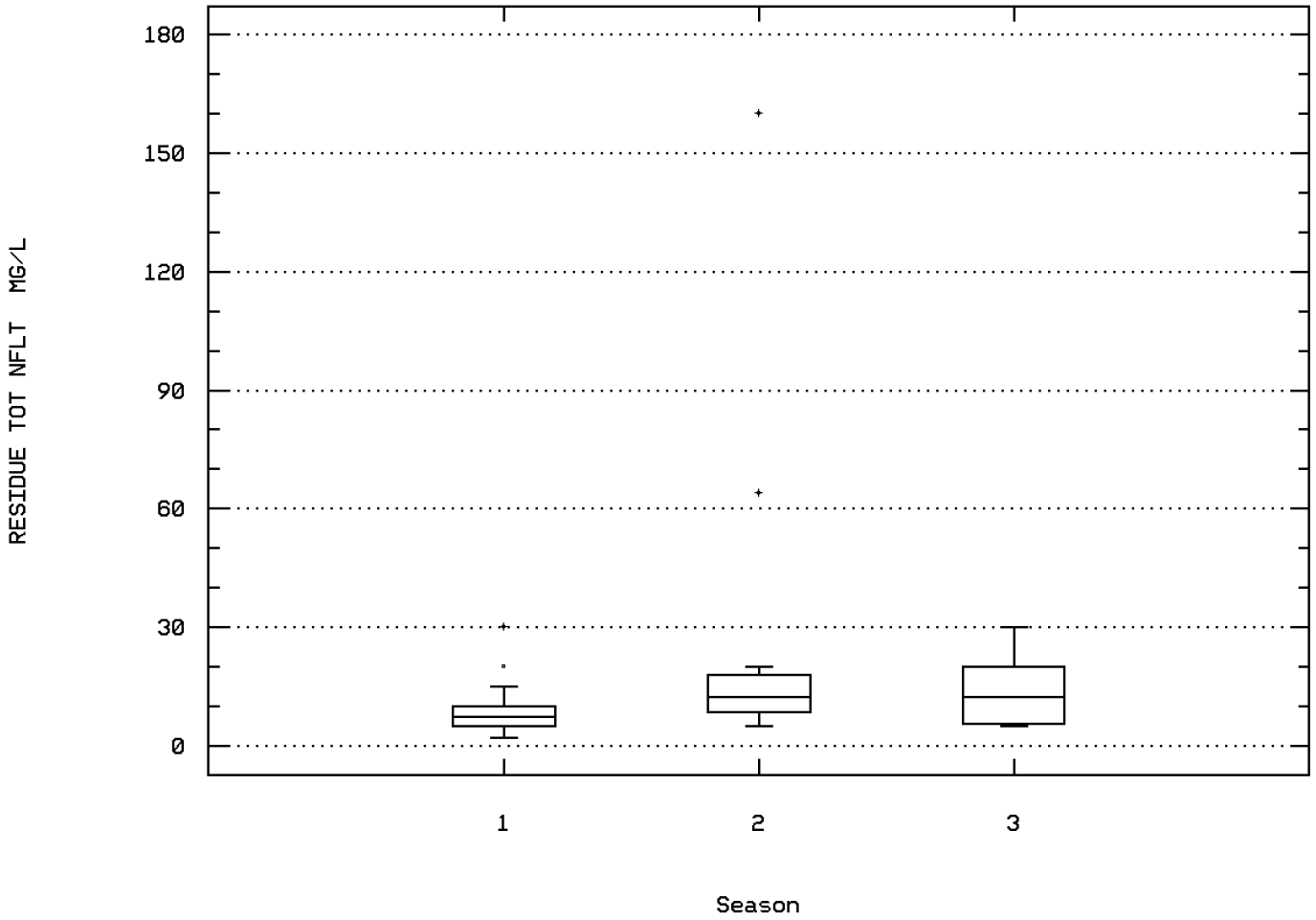
ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00530

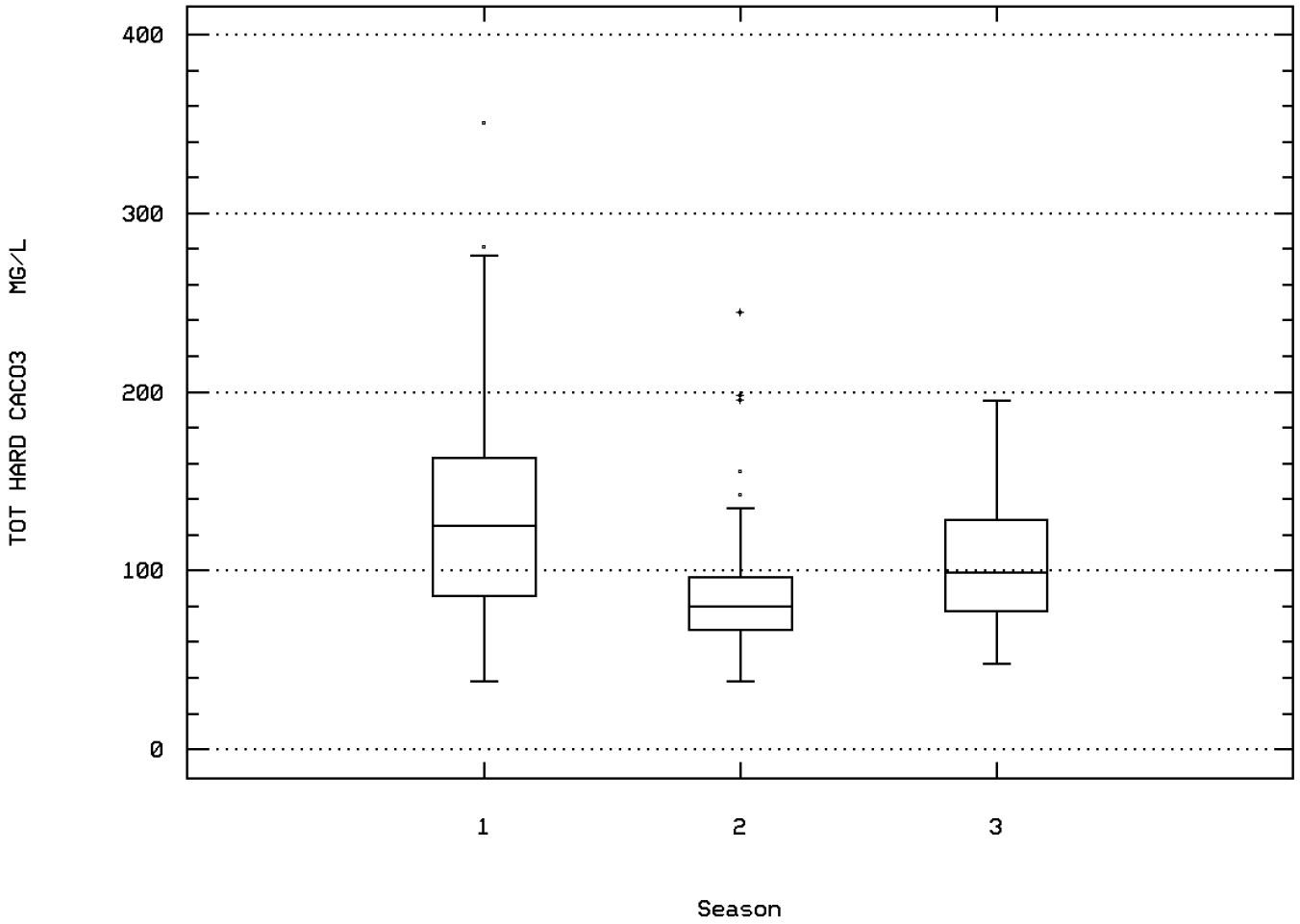
RESIDUE, TOTAL NONFILTRABLE (MG/L)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00900

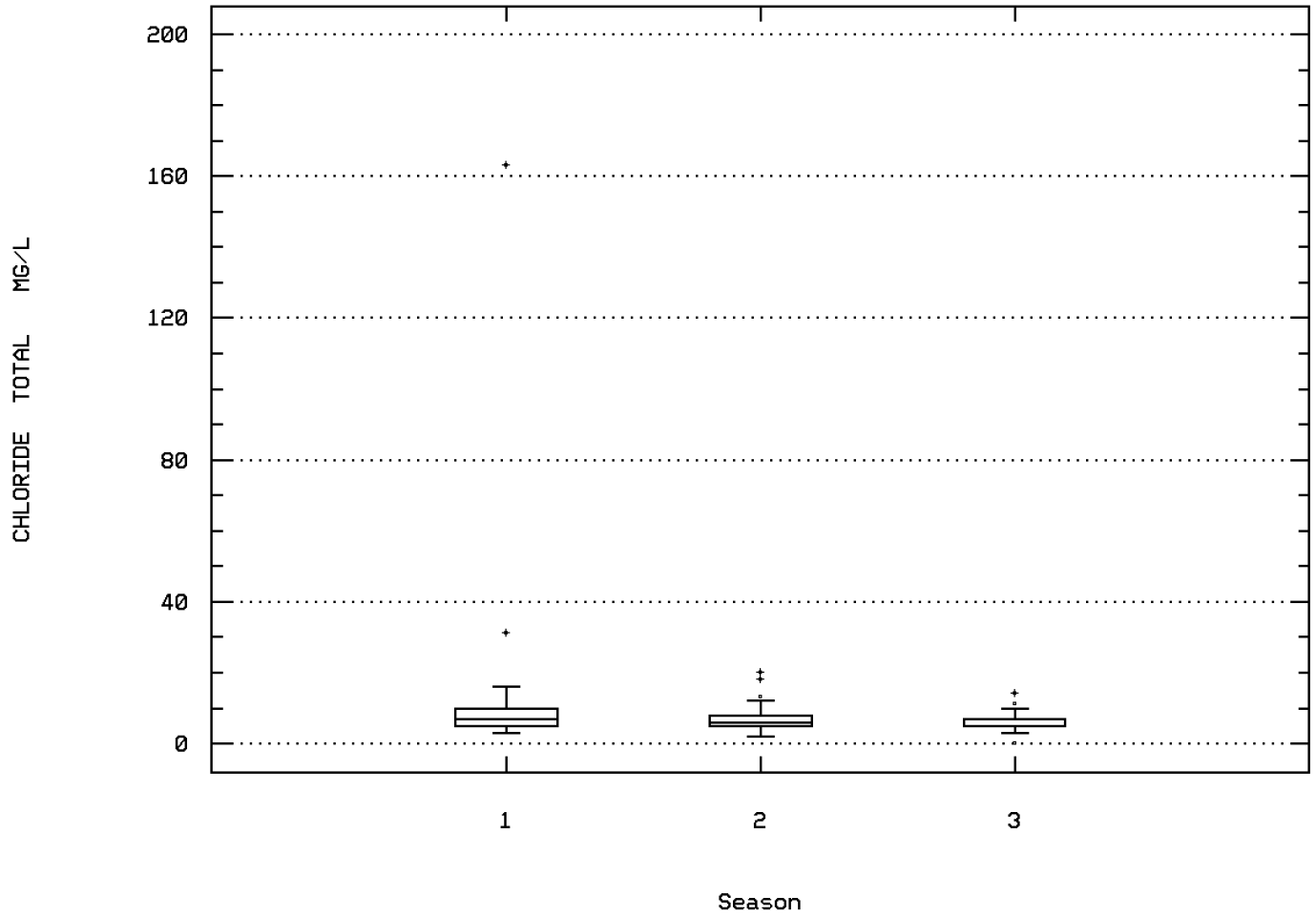
HARDNESS, TOTAL (MG/L AS CACO3)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00940

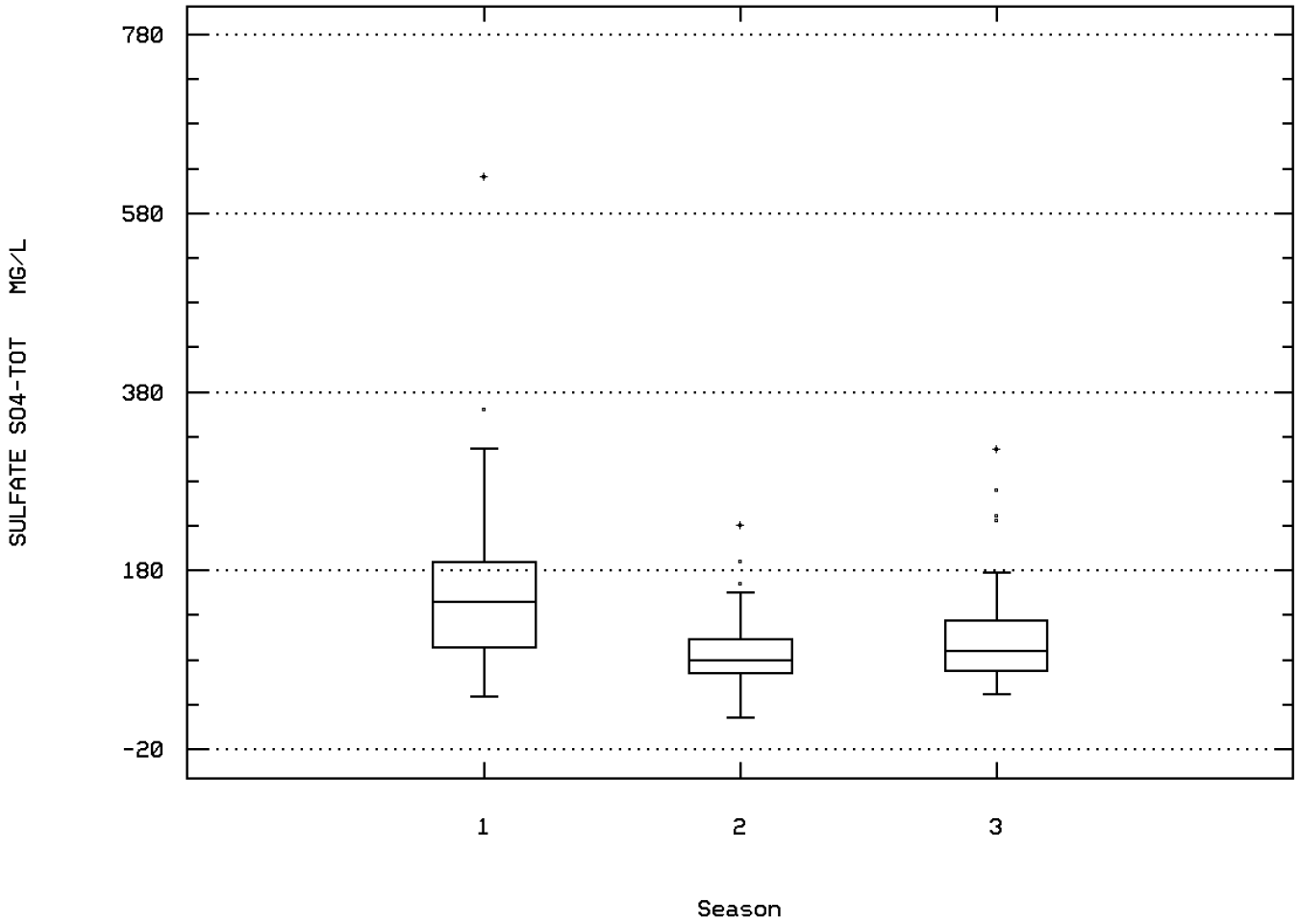
CHLORIDE,TOTAL IN WATER



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00945

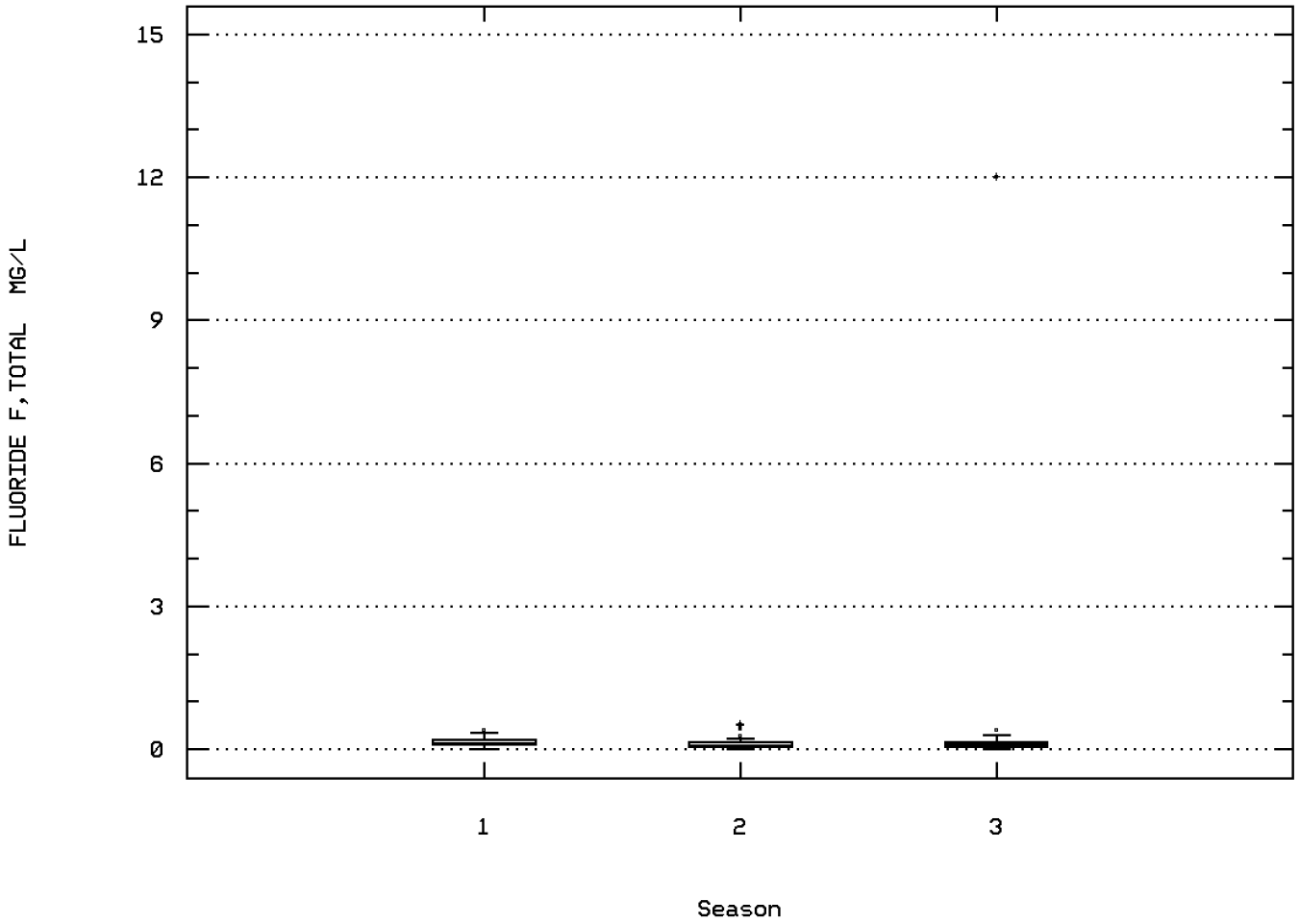
SULFATE, TOTAL (MG/L AS SO4)



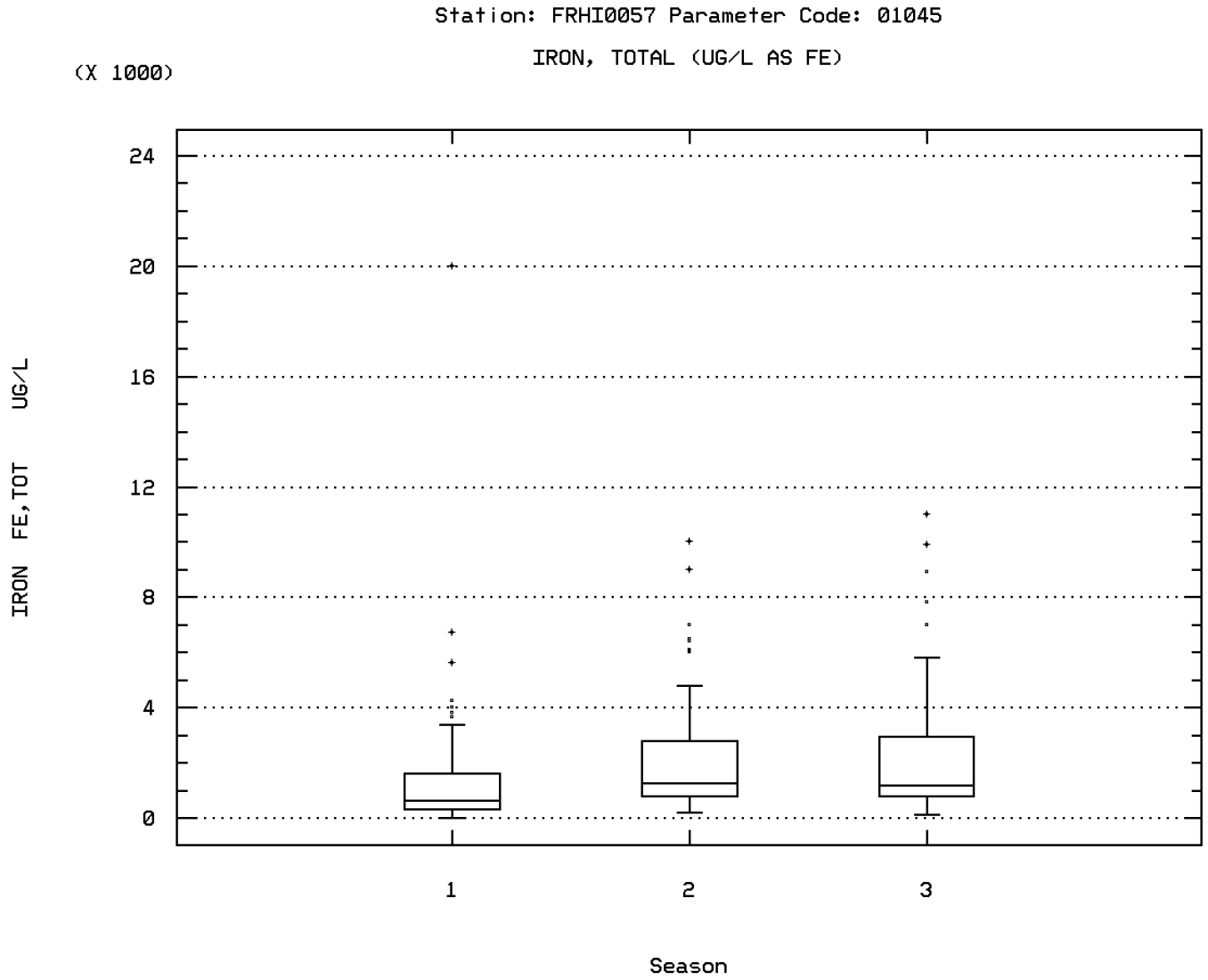
MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 00951

FLUORIDE, TOTAL (MG/L AS F)



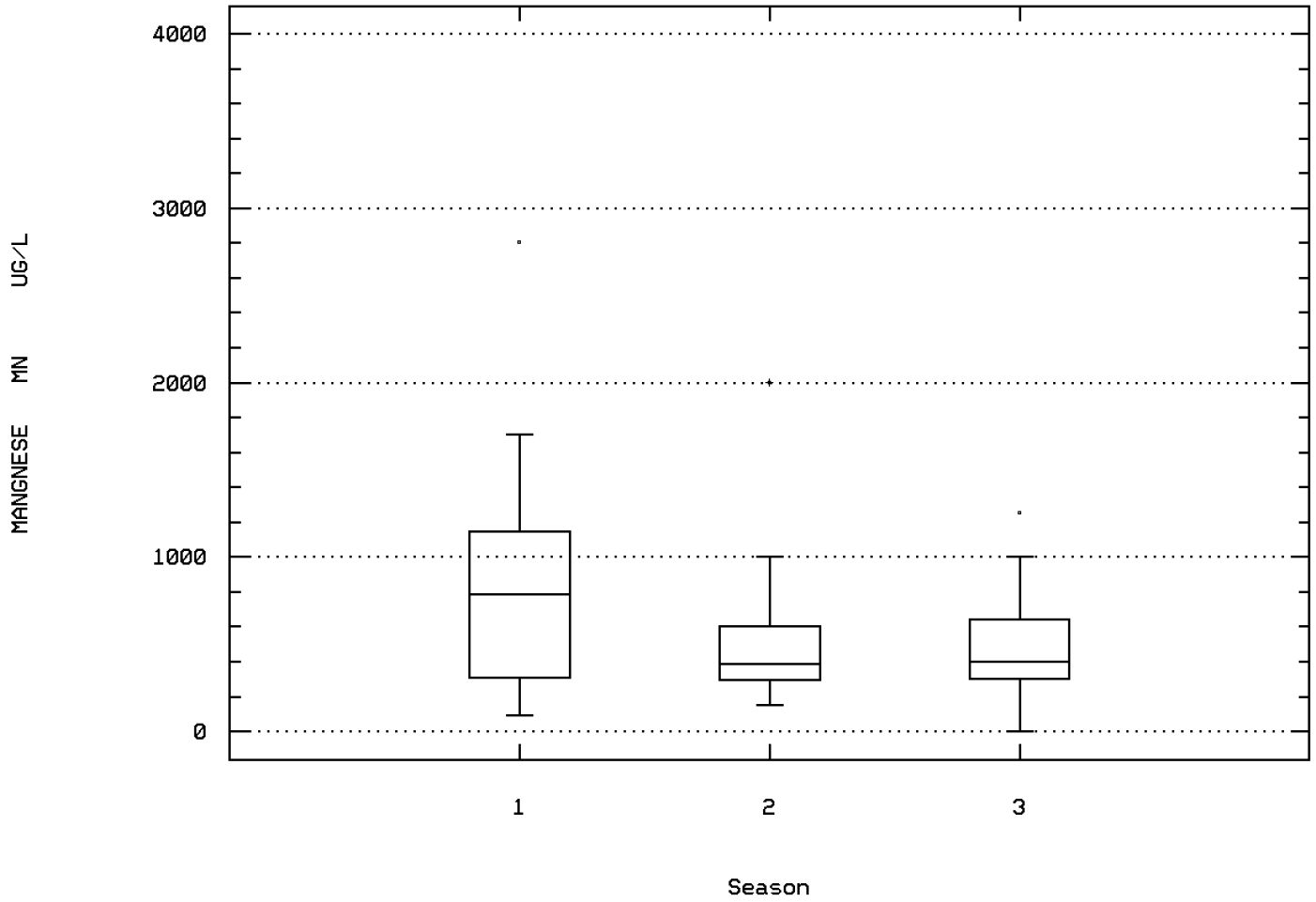
MONONGAHELA RVR-AT GAUGING STA ABV LOCK



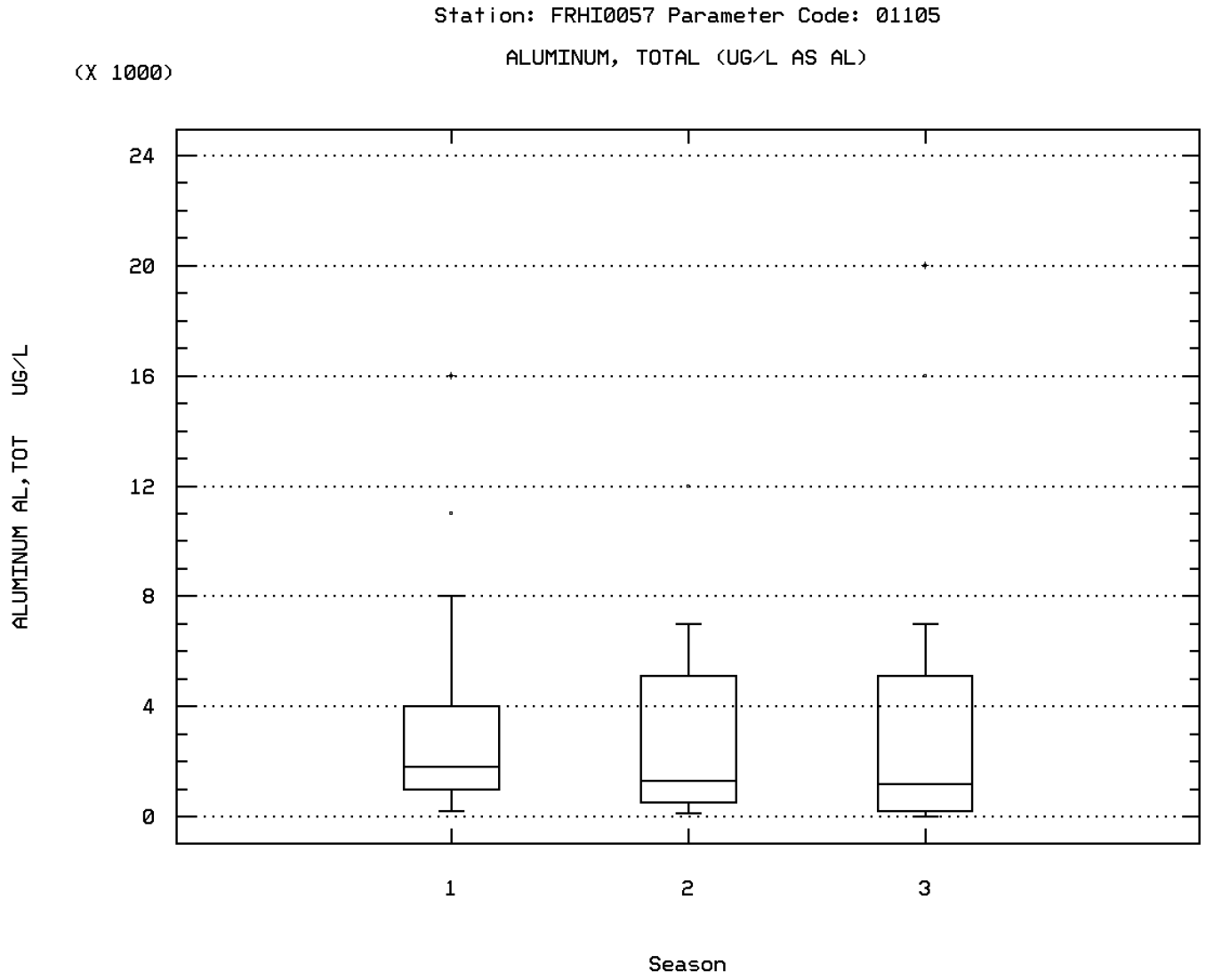
MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station: FRHI0057 Parameter Code: 01055

MANGANESE, TOTAL (UG/L AS MN)



MONONGAHELA RVR-AT GAUGING STA ABV LOCK



MONONGAHELA RVR-AT GAUGING STA ABV LOCK

Station Inventory for Station: FRHI0058

NPS Station ID: FRHI0058
LAT/LON: 39.787504/ -79.920837
Agency: 112WRD
Date Created: / /
Location: MONONGAHELA R ABV LOCK AND DAM 7, PA.
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072550
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005001605.81
RF3 Mile Point: 6.96
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/75-07/27/76	7	13.	13.643	20.	7.	23.893	4.888	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	12/02/70-12/02/70	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/06/75-08/27/76	10	6050.	7346.4	18600.	720.	37801920.711	6148.327	728.4	1566.	10780.	18400.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/06/75-08/27/76	8	3.25	7.913	42.	1.5	190.518	13.803	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	12/02/70-12/02/70	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/70-08/27/76	10	252.5	258.9	370.	119.	6057.656	77.831	126.1	197.5	330.	369.
00300	OXYGEN, DISSOLVED MG/L	03/29/76-05/28/76	2	11.6	11.6	12.2	11.	0.72	0.849	**	**	**	**
00400	PH (STANDARD UNITS)	12/02/70-03/29/76	5	7.3	6.9	7.5	5.8	0.535	0.731	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/02/70-03/29/76	5	7.3	6.393	7.5	5.8	0.856	0.925	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/70-03/29/76	5	0.05	0.405	1.585	0.032	0.45	0.671	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	12/02/70-12/02/70	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/70-08/27/76	11	13.	14.273	30.	2.	44.618	6.68	3.6	12.	16.	27.6
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	11/06/75-06/30/76	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	11/06/75-08/27/76	10	0.	2.1	12.	0.	16.989	4.122	0.	0.	3.25	11.5
00440	BICARBONATE ION (MG/L AS HCO3)	12/02/70-12/02/70	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/02/70-12/02/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/06/75-02/27/76	4	172.5	172.5	175.	170.	8.333	2.887	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/06/75-08/27/76	10	0.24	0.219	0.36	0.1	0.01	0.1	0.1	0.1	0.31	0.358
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/30/76-08/27/76	8	0.025	0.026	0.042	0.01	0.	0.012	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	12/02/70-12/02/70	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/30/76-08/27/76	7	0.88	0.89	1.079	0.66	0.018	0.134	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/02/70-12/02/70	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/06/75-08/27/76	10	0.085	0.208	1.309	0.05	0.151	0.389	0.05	0.058	0.118	1.195
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/02/70-12/02/70	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/76-08/27/76	7	0.02	0.03	0.1	0.005	0.001	0.034	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/02/70-08/27/76	11	90.	89.	130.	30.	1016.6	31.884	32.	76.	116.	128.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/02/70-12/02/70	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/02/70-08/27/76	11	25.	23.818	36.	8.	68.324	8.266	8.8	20.	30.4	35.36
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/02/70-08/27/76	11	7.8	7.182	11.	2.5	8.362	2.892	2.6	4.5	10.	10.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/02/70-12/02/70	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	12/02/70-12/02/70	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	12/02/70-12/02/70	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/02/70-12/02/70	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/02/70-08/27/76	11	10.	16.091	70.	7.	334.291	18.284	7.	8.	15.	60.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/70-08/27/76	11	94.	88.727	150.	5.	1382.818	37.186	14.8	70.	110.	143.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/02/70-12/02/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	11/06/75-08/27/76	10	0.11	0.139	0.52	0.05	0.019	0.139	0.05	0.05	0.135	0.483
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/02/70-12/02/70	1	9.2	9.2	9.2	9.2	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: FRHI0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045	IRON, TOTAL (UG/L AS FE)	11/06/75-08/27/76	10	720.	1031.	3650.	280.	1026721.111	1013.272	286.	347.5	1375.	3445.
01046	IRON, DISSOLVED (UG/L AS FE)	12/02/70-12/02/70	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/02/70-12/02/70	1	10.	10.	10.	10.	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	01/30/76-08/27/76	7 ##	5.	6.714	17.	5.	20.571	4.536	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/06/75-12/05/75	2 ##	0.028	0.028	0.05	0.005	0.001	0.032	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/70-12/02/70	1	72.	72.	72.	72.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/02/70-12/02/70	1	75.	75.	75.	75.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/02/70-12/02/70	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/02/70-12/02/70	1	19.	19.	19.	19.	0.	0.	**	**	**	**
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	12/02/70-12/02/70	1	18.	18.	18.	18.	0.	0.	**	**	**	**
72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	12/02/70-12/02/70	1	50.	50.	50.	50.	0.	0.	**	**	**	**
72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	12/02/70-12/02/70	1	15.	15.	15.	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: FRHI0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	8	0	0.00	2	0	0.00	2	0	0.00	4	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	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	2	0.40				4	2	0.50	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	2	0	0.00	2	0	0.00	4	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
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			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	7	3	0.43	2	2	1.00	1	0	0.00	4	1	0.25			
		Drinking Water	0.2	7	0	0.00	2	0	0.00	1	0	0.00	4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	11	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	250.	11	0	0.00	2	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			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	10	0	0.00	2	0	0.00	4	0	0.00	4	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: FRHI0059

NPS Station ID: FRHI0059 LAT/LON: 39.766781/ -79.921698 Agency: 11NPSWRD Date Created: 09/27/97
Location: SECONDARY MINE DRAINAGE TO ICE POND RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_DOE_D2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE SECONDARY SOURCE OF MINE DRAINAGE TO THE HEAD OF ICE POND RUN. DATA ARE FROM THE 1991 FINAL REPORT "USE OF A CONSTRUCTED WETLAND FOR THE TREATMENT OF ACID MINE DRAINAGE AT FRIENDSHIP HILL NATIONAL HISTORIC SITE FAYETTE COUNTY PA". ADDITIONAL 1988-1996 DATA PROVIDED BY ANGELA COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/91-11/06/92	36	13.6	15.547	35.6	3.	71.431	8.452	6.11	8.775	22.775	26.98
00058	FLOW, RATE GALLONS/MIN	11/10/88-08/29/89	3	8.34	8.11	11.82	4.17	14.67	3.83	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/28/89-07/01/93	48	2.5	2.575	3.5	2.4	0.027	0.166	2.5	2.5	2.6	2.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/28/89-07/01/93	48	2.5	2.554	3.5	2.4	0.028	0.167	2.5	2.5	2.6	2.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/89-07/01/93	48	3162.278	2791.909	3981.072	316.228	435995.	660.299	1995.262	2511.886	3162.278	3162.278
00406	PH, FIELD, STANDARD UNITS SU	07/03/91-02/10/93	38	2.445	2.463	3.02	2.09	0.03	0.172	2.3	2.38	2.523	2.616
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/03/91-02/10/93	38	2.445	2.433	3.02	2.09	0.03	0.174	2.3	2.38	2.523	2.616
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/03/91-02/10/93	38	3589.457	3686.814	8128.305	954.993	1782509.803	1335.107	2423.034	3002.766	4168.694	5011.872
00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/28/89-07/01/93	48	1541.5	1536.25	1958.	874.	39959.511	199.899	1299.6	1406.75	1661.	1798.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/28/89-07/01/93	48	238.	242.427	343.	143.	1150.464	33.918	215.9	226.625	260.	271.91
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/28/89-07/01/93	48	109.5	108.948	136.	66.1	142.554	11.94	97.85	104.25	116.	121.1
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/28/89-07/01/93	48	3.6	3.615	6.	2.5	0.348	0.59	2.99	3.4	3.8	4.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/07/92-07/01/93	4	0.21	0.243	0.5	0.05	0.041	0.201	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/28/89-07/01/93	48	2508.5	2496.458	2857.	1575.	70916.296	266.301	2217.5	2356.25	2725.	2793.7
01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/10/93-07/01/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/10/93-07/01/93	2 ##	35.	35.	50.	20.	450.	21.213	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	02/10/93-07/01/93	2 ##	17.5	17.5	30.	5.	312.5	17.678	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/10/93-07/01/93	2 ##	17.5	17.5	30.	5.	312.5	17.678	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/10/93-07/01/93	2	45.	45.	50.	40.	50.	7.071	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	02/10/93-07/01/93	2	400.	400.	430.	370.	1800.	42.426	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	02/10/93-07/01/93	2	250.	250.	260.	240.	200.	14.142	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	11/28/89-07/01/93	47	3.	12.532	143.	1.	625.646	25.013	2.	2.	5.	45.8

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

Parameter Inventory for Station: FRHI0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	02/10/93-07/01/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/28/89-07/01/93	48	11.55	11.55	14.2	7.9	1.569	1.252	10.28	10.625	12.5	13.02
01065	NICKEL, DISSOLVED (UG/L AS NI)	02/10/93-07/01/93	2	705.	705.	750.	660.	4050.	63.64	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	02/10/93-07/01/93	2	1680.	1680.	1780.	1580.	20000.	141.421	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	02/10/93-07/01/93	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/28/89-07/01/93	48	88455.	87362.083	111000.	60300.	131085693.44	11449.266	72400.	78525.	96175.	100300.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/10/93-07/01/93	2 ##	125.	125.	200.	50.	11250.	106.066	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	11/28/89-07/01/93	48	305.5	299.938	394.	162.	2174.019	46.626	240.6	269.	334.5	356.142

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

EPA Water Quality Criteria Analysis for Station: FRHI0059

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB	Other-Hi Lim.	9.	48	0	0.00	21	0	0.00	21	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	48	48	1.00	21	21	1.00	21	21	1.00	6	6	1.00			
00406	PH, FIELD	Other-Hi Lim.	9.	38	0	0.00	15	0	0.00	20	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	38	38	1.00	15	15	1.00	20	20	1.00	3	3	1.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	48	48	1.00	21	21	1.00	21	21	1.00	6	6	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	0 &	0	0.00												
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00	1	0	0.00	1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	4.	1 &	1	1.00	1	1	1.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1 &	1	1.00	1	1	1.00									
		Drinking Water	5.	1 &	1	1.00	1	1	1.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	2	1.00	1	1	1.00	1	1	1.00						
		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.	0 &	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	2	1.00	1	1	1.00	1	1	1.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	2	1.00	1	1	1.00	1	1	1.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	6.	0 &	0	0.00												
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	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: FRHI0060

NPS Station ID: FRHI0060
LAT/LON: 39.786809/ -79.921670
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 85.1
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4GRP11002
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 085.10
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 85.1 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 7,0.1 MILE UPSTREAM OF LOCK AND DAM NO. 7 AT MID-CHANNEL - MASONTOWN PA QUAD - SAMPLED BY U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	78	24.5	24.431	28.4	19.2	4.854	2.203	20.9	23.675	26.1	26.5
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	128	15.	19.401	61.	0.9	235.37	15.342	3.	6.075	30.	43.
00032	CLOUD COVER (PERCENT)	06/04/75-06/27/79	4	10.	30.	100.	0.	2266.667	47.61	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	27	4.1	8.615	75.	1.1	256.768	16.024	2.36	3.1	6.4	17.6
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/04/75-06/27/79	4	78.	79.5	90.	72.	81.	9.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	27	10.	11.185	25.	0.	35.926	5.994	4.6	8.	15.	21.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	78	314.	341.513	708.	168.	22926.435	151.415	186.8	217.5	390.25	600.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/25/92	6	217.5	356.	684.	191.	53469.2	231.234	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	78	7.65	7.663	9.3	6.1	0.575	0.758	7.	7.2	8.025	8.8
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	70	6.325	6.176	7.2	4.65	0.369	0.607	5.373	5.837	6.5	6.94
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	70	6.324	5.706	7.2	4.65	0.592	0.77	5.373	5.837	6.5	6.94
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	70	0.474	1.968	22.387	0.063	19.019	4.361	0.115	0.316	1.456	4.237
00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	27	6.5	6.463	7.2	5.1	0.295	0.544	5.52	6.3	6.8	7.2
00403	CONVERTED PH, LAB, STANDARD UNITS	06/04/75-08/25/92	27	6.5	6.038	7.2	5.1	0.483	0.695	5.52	6.3	6.8	7.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	27	0.316	0.916	7.943	0.063	3.488	1.868	0.063	0.158	0.501	3.271
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	27	11.	12.296	30.	1.	66.755	8.17	2.8	6.	17.	28.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	27	6.	6.	12.	3.	4.	2.	4.	4.	7.	8.4
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	27	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	27	6.	5.778	8.	3.	2.256	1.502	4.	4.	7.	8.
00500	RESIDUE, TOTAL (MG/L)	07/30/75-06/21/78	2	419.5	419.5	505.	334.	14620.5	120.915	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/78-06/21/78	1	332.	332.	332.	332.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	27	3.	6.496	35.	0.4	71.45	8.453	1.	2.	6.	20.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	22 ##	0.05	0.068	0.1	0.025	0.001	0.028	0.033	0.05	0.1	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/04/75-08/25/92	23	0.2	0.17	0.4	0.05	0.011	0.106	0.05	0.05	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/04/75-08/25/92	22	0.6	0.577	1.6	0.05	0.094	0.307	0.125	0.4	0.7	0.77
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/04/75-08/25/92	24 ##	0.005	0.032	0.284	0.005	0.005	0.074	0.005	0.005	0.015	0.146
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	27	114.	129.444	243.	63.	3068.795	55.397	68.	92.	153.	241.4
00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	20	34.	34.655	66.8	15.	219.355	14.811	18.06	21.825	45.75	63.3
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	20	8.05	8.79	18.	4.	15.208	3.9	4.33	6.	11.	17.22
00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	20	15.	16.681	52.4	1.26	181.602	13.476	1.934	8.175	18.975	48.76
00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	18 ##	5.	4.922	17.	0.5	20.897	4.571	0.5	1.625	5.	15.74
00940	CHLORIDE,TOTAL IN WATER MG/L	08/16/89-08/16/89	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/04/75-08/25/92	22	127.	140.5	300.	68.	3995.405	63.209	75.6	96.	153.	259.5

** - 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

Parameter Inventory for Station: FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/88-07/31/91	7 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	18	50.	49.056	60.	34.	55.585	7.456	39.4	42.75	55.25	60.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	18 ##	5.	3.5	5.	0.5	4.765	2.183	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/80-07/31/91	18 ##	0.5	0.806	3.	0.5	0.533	0.73	0.5	0.5	0.5	2.1
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/80-08/25/92	20 ##	0.5	1.95	22.	0.5	23.418	4.839	0.5	0.5	0.5	4.7
01042	COPPER, TOTAL (UG/L AS CU)	07/23/80-08/25/92	20	10.5	10.95	23.	2.5	37.682	6.139	2.5	7.	15.75	19.9
01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	27	331.	459.	1280.	50.	120664.231	347.368	140.8	200.	639.	1104.
01051	LEAD, TOTAL (UG/L AS PB)	07/23/80-07/31/91	18 ##	1.	1.278	6.	1.	1.389	1.179	1.	1.	1.	1.5
01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	27	340.	335.148	908.	70.	28614.593	169.158	118.4	252.	387.	492.4
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/80-08/25/92	20 ##	5.25	16.45	198.	2.5	1855.918	43.08	2.5	2.5	11.5	20.6
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/80-08/25/92	20 ##	25.	26.4	53.	25.	39.2	6.261	25.	25.	25.	25.
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	16 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/23/80-08/25/92	20	214.5	236.5	790.	61.	26599.842	163.095	65.3	125.25	267.5	444.7
01147	SELENIUM, TOTAL (UG/L AS SE)	07/27/88-07/31/91	5 ##	0.5	0.6	1.	0.5	0.05	0.224	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/04/75-07/29/87	17	0.	1.294	12.	0.	13.471	3.67	0.	0.	0.	10.4
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	07/27/88-08/25/92	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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

EPA Water Quality Criteria Analysis for Station: FRHI0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	27	2	0.07	22	0	0.00				5	2	0.40			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	78	0	0.00	63	0	0.00				15	0	0.00			
00400	PH	Other-Hi Lim.	9.	70	0	0.00	61	0	0.00				9	0	0.00			
		Other-Lo Lim.	6.5	70	55	0.79	61	49	0.80				9	6	0.67			
00403	PH, LAB	Other-Hi Lim.	9.	27	0	0.00	22	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	27	16	0.59	22	12	0.55				5	4	0.80			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	22	0	0.00	18	0	0.00				4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	22	3	0.14	19	2	0.11				3	1	0.33			
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00	7	0	0.00									
		Drinking Water	50.	7	0	0.00	7	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	18	0	0.00	18	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	18	0	0.00	18	0	0.00									
		Drinking Water	4.	6 &	0	0.00	6	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	18	0	0.00	18	0	0.00									
		Drinking Water	5.	18	0	0.00	18	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	20	0	0.00	20	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	20	3	0.15	20	3	0.15									
		Drinking Water	1300.	20	0	0.00	20	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	18	0	0.00	18	0	0.00									
		Drinking Water	15.	18	0	0.00	18	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	20	0	0.00	20	0	0.00									
		Drinking Water	100.	20	1	0.05	20	1	0.05									
01092	ZINC, TOTAL	Fresh Acute	120.	20	0	0.00	20	0	0.00									
		Drinking Water	5000.	20	0	0.00	20	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	16	0	0.00	16	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	5	0	0.00	5	0	0.00									
		Drinking Water	50.	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

Annual Analysis for 1983 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	17	13.	17.882	51.	2.	245.985	15.684	2.8	5.	29.	47.

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

Annual Analysis for 1986 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	13	5.	11.608	43.	0.9	172.767	13.144	0.94	2.	20.	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 1987 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	15	21.	23.4	55.	8.	177.829	13.335	8.6	11.	32.	46.

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	17	27.	28.882	52.	13.	153.735	12.399	14.6	17.	39.	50.4

** - 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 1989 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	8	22.	26.875	61.	10.	305.268	17.472	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	17	15.	23.3	57.	7.8	231.655	15.22	8.28	11.	34.	50.6

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

Annual Analysis for 1991 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	22	9.05	14.955	51.	1.3	208.167	14.428	2.11	4.2	22.	43.7

** - 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 1992 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	19	4.9	12.963	51.	2.3	233.009	15.265	2.7	3.5	28.	37.

** - Less than 9 observations ## - Computed 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: 7/01 to 10/31 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	63	25.1	25.265	28.4	23.6	1.715	1.31	23.8	24.1	26.2	26.56
00031	LIGHT,INCIDENT, PERCENT REMAING AT CERTAIN DEPTH	08/24/83-08/25/92	128	15.	19.401	61.	0.9	235.37	15.342	3.	6.075	30.	43.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	22	3.75	4.273	9.5	1.1	4.048	2.012	2.26	2.8	5.4	7.44
00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	22	10.	10.773	25.	3.	30.184	5.494	5.	8.	13.	22.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	63	343.	361.984	708.	185.	23972.758	154.831	198.8	246.	424.	664.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	63	7.3	7.39	8.4	6.1	0.263	0.513	6.88	7.1	7.8	8.06
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	61	6.2	6.15	7.2	4.65	0.396	0.63	5.362	5.8	6.425	7.148
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	61	6.2	5.668	7.2	4.65	0.633	0.796	5.362	5.8	6.425	7.148
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	61	0.631	2.149	22.387	0.063	21.48	4.635	0.073	0.376	1.585	4.345
00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	22	6.5	6.486	7.2	5.1	0.301	0.549	5.44	6.25	6.825	7.17
00403	CONVERTED PH, LAB, STANDARD UNITS	06/04/75-08/25/92	22	6.5	6.025	7.2	5.1	0.524	0.724	5.44	6.25	6.825	7.17
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	22	0.316	0.943	7.943	0.063	4.132	2.033	0.068	0.15	0.574	4.717
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	22	11.	12.591	30.	1.	73.015	8.545	3.3	6.	16.25	28.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	22	5.5	5.773	12.	3.	4.47	2.114	4.	4.	6.25	9.4
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	22	5.5	5.5	8.	3.	2.167	1.472	4.	4.	6.25	8.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	22	3.	4.609	19.	0.4	22.467	4.74	1.	2.	4.5	14.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	19 ##	0.05	0.071	0.1	0.05	0.001	0.025	0.05	0.05	0.1	0.1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/04/75-08/25/92	19	0.2	0.166	0.4	0.05	0.012	0.109	0.05	0.05	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/04/75-08/25/92	18	0.6	0.589	1.6	0.05	0.11	0.332	0.05	0.4	0.7	0.88
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/04/75-08/25/92	20 ##	0.005	0.036	0.284	0.005	0.006	0.08	0.005	0.005	0.015	0.231
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	22	116.	131.955	243.	63.	3307.665	57.512	71.	92.75	150.	242.4
00916	CALCIUM, TOTAL (MG/L AS CA)	07/23/80-08/25/92	20	34.	34.655	66.8	15.	219.355	14.811	18.06	21.825	45.75	63.3
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/23/80-08/25/92	20	8.05	8.79	18.	4.	15.208	3.9	4.33	6.	11.	17.22
00929	SODIUM, TOTAL (MG/L AS NA)	07/23/80-08/25/92	20	15.	16.681	52.4	1.26	181.602	13.476	1.934	8.175	18.975	48.76
00937	POTASSIUM, TOTAL MG/L AS K)	07/23/80-08/25/92	18 ##	5.	4.922	17.	0.5	20.897	4.571	0.5	1.625	5.	15.74
00945	SULFATE, TOTAL (MG/L AS SO4)	06/04/75-08/25/92	19	121.	134.474	300.	75.	3305.819	57.496	77.	97.	151.	261.
01007	BARIUM, TOTAL (UG/L AS BA)	08/24/83-08/25/92	18	50.	49.056	60.	34.	55.585	7.456	39.4	42.75	55.25	60.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/24/83-08/25/92	18 ##	5.	3.5	5.	0.5	4.765	2.183	0.5	0.5	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/80-07/31/91	18 ##	0.5	0.806	3.	0.5	0.533	0.73	0.5	0.5	0.5	2.1
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/80-08/25/92	20 ##	0.5	1.95	22.	0.5	23.418	4.839	0.5	0.5	0.5	4.7
01042	COPPER, TOTAL (UG/L AS CU)	07/23/80-08/25/92	20	10.5	10.95	23.	2.5	37.682	6.139	2.5	7.	15.75	19.9
01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	22	260.5	397.773	1280.	50.	116567.327	341.42	115.3	194.75	455.5	1094.
01051	LEAD, TOTAL (UG/L AS PB)	07/23/80-07/31/91	18 ##	1.	1.278	6.	1.	1.389	1.179	1.	1.	1.	1.5
01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	22	350.	341.455	908.	70.	34642.45	186.125	94.4	240.5	396.25	598.4
01067	NICKEL, TOTAL (UG/L AS NI)	07/23/80-08/25/92	20 ##	5.25	16.45	198.	2.5	1855.918	43.08	2.5	2.5	11.5	20.6
01092	ZINC, TOTAL (UG/L AS ZN)	07/23/80-08/25/92	20 ##	25.	26.4	53.	25.	39.2	6.261	25.	25.	25.	25.
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/24/83-08/25/92	16 ##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/23/80-08/25/92	20	214.5	236.5	790.	61.	26599.842	163.095	65.3	125.25	267.5	444.7
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/04/75-07/29/87	12	0.	1.833	12.	0.	18.515	4.303	0.	0.	0.	11.4

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/25/92	15	20.9	20.927	23.	19.2	2.814	1.677	19.2	19.2	23.	23.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/04/75-08/25/92	5	6.6	27.72	75.	3.3	1087.787	32.982	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	06/04/75-08/25/92	5	15.	13.	20.	0.	70.	8.367	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/25/92	15	216.	255.533	391.	168.	10123.981	100.618	168.	170.	390.	391.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/25/92	15	8.8	8.807	9.3	8.	0.259	0.509	8.	8.2	9.3	9.3
00400	PH (STANDARD UNITS)	06/04/75-08/25/92	9	6.5	6.349	6.7	5.49	0.167	0.408	5.49	6.1	6.625	6.7
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/25/92	9	6.5	6.127	6.7	5.49	0.222	0.471	5.49	6.1	6.625	6.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	9	0.316	0.746	3.236	0.2	1.013	1.006	0.2	0.238	0.93	3.236
00403	PH, LAB, STANDARD UNITS SU	06/04/75-08/25/92	5	6.3	6.36	7.2	5.6	0.323	0.568	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/04/75-08/25/92	5	6.3	6.1	7.2	5.6	0.408	0.639	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/25/92	5	0.501	0.795	2.512	0.063	0.953	0.976	**	**	**	**

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	5	9.	11.	18.	2.	48.	6.928	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	5	7.	7.	8.	6.	1.	1.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/04/75-08/25/92	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	06/04/75-08/25/92	5	7.	7.	8.	6.	1.	1.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/04/75-08/25/92	5	6.	14.8	35.	2.	240.7	15.515	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/78-08/25/92	3 ##	0.025	0.05	0.1	0.025	0.002	0.043	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/04/75-08/25/92	4	0.2	0.188	0.3	0.05	0.011	0.103	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/04/75-08/25/92	4	0.55	0.525	0.7	0.3	0.029	0.171	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/04/75-08/25/92	4 ##	0.008	0.008	0.01	0.005	0.	0.003	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/04/75-08/25/92	5	92.	118.4	172.	68.	2394.8	48.937	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/04/75-08/25/92	3	212.	178.667	256.	68.	9669.333	98.333	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/04/75-08/25/92	5	730.	728.4	1120.	470.	61000.3	246.982	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/04/75-08/25/92	5	315.	307.4	370.	252.	2940.8	54.229	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/04/75-07/29/87	5	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Station Inventory for Station: FRHI0061

NPS Station ID: FRHI0061
LAT/LON: 39.830559/ -79.921949
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 81.5
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4MLP11008
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 081.50
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002500.00
RF3 Mile Point: 0.00
Distance from RF3: 0.06
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 81.5 MILES UPSTREAM FROM PITTSBURGH, PA IN MAXWELL POOL 3.5 MILES DOWNSTREAM OF LOCK AND DAM NO. 7 AT MID-CHANNEL - MASONTOWN PA QUAD - SAMPLED BY U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA

Parameter Inventory for Station: FRHI0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/26/92	75	24.6	24.253	28.7	19.2	5.6	2.366	20.86	23.	25.6	26.74
00032	CLOUD COVER (PERCENT)	06/21/78-06/21/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/15/90-08/26/92	2	4.25	4.25	6.	2.5	6.125	2.475	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/21/78-06/27/79	2	66.	66.	84.	48.	648.	25.456	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/15/90-08/26/92	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/26/92	75	328.	335.88	525.	208.	6277.918	79.233	254.6	261.	392.	434.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/90-08/26/92	2	343.5	343.5	364.	323.	840.5	28.991	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/26/92	75	8.	8.175	10.2	6.7	0.742	0.862	7.	7.7	8.6	9.72
00400	PH (STANDARD UNITS)	06/04/75-08/26/92	68	6.5	6.119	7.8	3.8	0.966	0.983	4.5	5.4	6.608	7.111
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/26/92	68	6.5	5.04	7.8	3.8	2.147	1.465	4.5	5.4	6.607	7.111
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/26/92	68	0.316	9.119	158.489	0.016	574.003	23.958	0.077	0.247	3.981	31.623
00403	PH, LAB, STANDARD UNITS SU	08/15/90-08/26/92	2	7.05	7.05	7.1	7.	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/15/90-08/26/92	2	7.047	7.047	7.1	7.	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/90-08/26/92	2	0.09	0.09	0.1	0.079	0.	0.015	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/90-08/26/92	2	23.	23.	23.	23.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/15/90-08/26/92	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/15/90-08/26/92	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/15/90-08/26/92	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/15/90-08/26/92	2	4.5	4.5	8.	1.	24.5	4.95	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/15/90-08/26/92	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/15/90-08/26/92	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/26/92-08/26/92	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/15/90-08/26/92	2	0.137	0.137	0.243	0.03	0.023	0.151	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/15/90-08/26/92	2	128.5	128.5	136.	121.	112.5	10.607	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	08/15/90-08/26/92	2	35.45	35.45	39.2	31.7	28.125	5.303	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/15/90-08/26/92	2	9.1	9.1	10.1	8.1	2.	1.414	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	08/15/90-08/26/92	2	15.6	15.6	16.7	14.5	2.42	1.556	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/15/90-08/26/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/90-08/26/92	2	107.5	107.5	136.	79.	1624.5	40.305	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/15/90-08/15/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/15/90-08/26/92	2	47.5	47.5	50.	45.	12.5	3.536	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/15/90-08/26/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/15/90-08/15/90	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/15/90-08/26/92	2	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/15/90-08/26/92	2 ##	5.75	5.75	9.	2.5	21.125	4.596	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/15/90-08/26/92	2	381.5	381.5	521.	242.	38920.5	197.283	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/15/90-08/15/90	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/15/90-08/26/92	2	127.5	127.5	134.	121.	84.5	9.192	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/15/90-08/26/92	2	10.	10.	13.	7.	18.	4.243	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/15/90-08/26/92	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/15/90-08/26/92	2 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/15/90-08/26/92	2	162.	162.	170.	154.	128.	11.314	**	**	**	**
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	08/15/90-08/26/92	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: FRHI0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	75	0	0.00	60	0	0.00				15	0	0.00			
00400	PH	Other-Hi Lim.	9.	68	0	0.00	60	0	0.00				8	0	0.00			
		Other-Lo Lim.	6.5	68	41	0.60	60	33	0.55				8	8	1.00			
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									
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	2	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.	2	0	0.00	2	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	2	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	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.	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.	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									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	2	0	0.00									
		Drinking Water	6.	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

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/26/92	60	25.3	25.008	28.7	20.8	3.505	1.872	21.23	24.125	26.275	27.16
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/26/92	60	343.	347.15	525.	254.	6405.214	80.033	256.	262.	420.5	473.7
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/26/92	60	7.9	8.	10.2	6.7	0.619	0.787	7.	7.6	8.3	9.19
00400	PH (STANDARD UNITS)	06/04/75-08/26/92	60	6.5	6.154	7.8	3.8	1.013	1.007	4.5	5.4	6.783	7.119
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/26/92	60	6.5	5.017	7.8	3.8	2.327	1.525	4.5	5.4	6.783	7.119
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/26/92	60	0.316	9.608	158.489	0.016	640.884	25.316	0.076	0.17	3.981	31.623

** - Less than 9 observations ## - Computed 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: 3/15 to 6/30 - Station FRHI0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/04/75-08/26/92	15	21.5	21.233	23.	19.2	2.617	1.618	19.2	19.2	23.	23.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/04/75-08/26/92	15	328.	290.8	340.	208.	3468.171	58.891	208.	212.	332.	338.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/04/75-08/26/92	15	8.7	8.873	9.9	7.8	0.659	0.812	7.86	8.2	9.9	9.9
00400	PH (STANDARD UNITS)	06/04/75-08/26/92	8	6.15	5.856	6.5	4.65	0.614	0.784	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/04/75-08/26/92	8	6.022	5.264	6.5	4.65	1.015	1.008	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/04/75-08/26/92	8	0.951	5.45	22.387	0.316	74.857	8.652	**	**	**	**

** - Less than 9 observations ## - Computed 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: FRHI0062

NPS Station ID: FRHI0062 LAT/LON: 39.769421/ -79.922087 Agency: 11NPSWRD Date Created: 09/27/97
Location: CONFLUENCE OF ICE POND RUN MINE DRAINAGE FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_BOM_2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE CONFLUENCE OF THE TWO TRIBUTARIES TO ICE POND RUN; BOTH TRIBUTARIES RECEIVE MINE DRAINAGE. DATA FOR THE SITE ARE FROM THE 1985 "FRIENDSHIP HILL PROJECT STATUS REPORT - PHASE 1 FEASIBILITY STUDY" PREPARED FOR THE NATIONAL PARK SERVICE BY THE BUREAU OF MINES; FOR MORE INFORMATION CONTACT ANGELA R. COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PENNSYLVANIA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	1	2900.	2900.	2900.	2900.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/09/83-03/09/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/83-03/09/83	1	2511.886	2511.886	2511.886	2511.886	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	1	1161.	1161.	1161.	1161.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	1	584.4	584.4	584.4	584.4	0.	0.	**	**	**	**
00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	1	321.1	321.1	321.1	321.1	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	1	1920.	1920.	1920.	1920.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	1	9700.	9700.	9700.	9700.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	1	51800.	51800.	51800.	51800.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	1	2958.	2958.	2958.	2958.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	1	267.	267.	267.	267.	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: FRHI0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						

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

Station Inventory for Station: FRHI0063

NPS Station ID: FRHI0063 | LAT/LON: 39.786670/ -79.922226 | Agency: 1114O100 | Date Created: / /
Location: MONONGAHELA RIVER AT LOCK 7 | FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 410449
RMI-Indexes: 1021500 007720 21680 | Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 085.00
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005038 | RF1 Mile Point: 0.100 | Distance from RF1: 4.80 | On/Off RF1: OFF
RF3 Index: 05020005001605.81 | RF3 Mile Point: 6.96 | Distance from RF3: 0.04 | On/Off RF3:
Description:
STATION LOCATED ON THE MONONGAHELA RIVER US FROM GREENABORO AT LOCK 7. 1963 STUDY BY A.D.SIDIO, FIELD WORK BY CINN, AND WHEELING FIELD STATION.
MASONTOWN, PA. 15 MIN QUAD MAP 3947120 07955200

Parameter Inventory for Station: FRHI0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-08/11/66	15	23.5	23.633	27.	22.	1.338	1.157	22.	23.	24.	25.2
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/21/63-08/28/63	5	75.	70.84	84.2	60.	112.028	10.584	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/19/63-08/30/63	10	2320.	2546.	4220.	1720.	753182.222	867.861	1723.	1795.	3217.5	4128.
00080	COLOR (PLATINUM-COBALT UNITS)	08/11/66-08/11/66	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	10	322.5	331.7	490.	255.	5004.456	70.742	256.	272.5	380.	479.
00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/11/66	11	7.6	7.745	9.	6.7	0.415	0.644	6.8	7.3	8.2	8.9
00400	PH (STANDARD UNITS)	08/27/63-08/11/66	5	3.7	3.84	4.3	3.5	0.118	0.344	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/63-08/11/66	5	3.7	3.746	4.3	3.5	0.129	0.359	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/63-08/11/66	5	199.526	179.299	316.228	50.119	12746.886	112.902	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	10	3.9	3.81	4.	3.5	0.025	0.16	3.51	3.675	3.9	3.99
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/63-08/30/63	10	3.9	3.781	4.	3.5	0.026	0.162	3.51	3.675	3.9	3.99
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/63-08/30/63	10	125.893	165.489	316.228	100.	4822.482	69.444	102.589	125.893	212.442	309.724
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	10	5.	5.5	8.	3.	3.167	1.78	3.	4.5	7.25	8.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	10	19.5	19.5	23.	16.	6.278	2.506	16.	17.5	22.	22.9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/11/66-08/11/66	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	10	103.5	105.8	174.	76.	923.733	30.393	76.	80.5	123.75	169.2
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	08/11/66-08/11/66	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	10	22.	22.2	29.	18.	15.733	3.967	18.	18.	25.	28.9

** - 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: FRHI0063

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	11	0	0.00									
00400	PH	Other-Hi Lim.	9.	5	0	0.00	5	0	0.00									
		Other-Lo Lim.	6.5	5	5	1.00	5	5	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	10	0	0.00	10	0	0.00									
		Other-Lo Lim.	6.5	10	10	1.00	10	10	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: FRHI0064

NPS Station ID: FRHI0064
LAT/LON: 39.786670/ -79.922226
Agency: 1114O100
Date Created: / /
Location: MONONGAHELA RIVER AT LOCK 7
FIPS State/County: 42000 PENNSYLVANIA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 394712007955200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005000112.62
RF3 Mile Point: 12.69
Distance from RF3: 0.13
On/Off RF3:
Description:
STATION LOCATED ON THE MONONGAHELA RIVER US FROM GREENABORO AT LOCK 7. 1963 STUDY BY A.D.SIDIO, FIELD WORK BY CINN, AND WHEELING FIELD STATION.
MASONTOWN, PA. 15 MIN QUAD MAP 3947120 07955200

Parameter Inventory for Station: FRHI0064

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: FRHI0065

NPS Station ID: FRHI0065 LAT/LON: 39.773365/ -79.923559 Agency: 11NPSWRD Date Created: 09/27/97
Location: CELL 2 OF BOM WETLAND IN ICE POND RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/MINE/IMPDMT/FWTLND STORET Station ID(s): FRHI_CSU_3
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS IN CELL 2 OF THE BUREAU OF MINES CONSTRUCTED WETLAND ADJACENT TO ICE POND RUN. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	178.	178.	178.	178.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	72.7	72.7	72.7	72.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	20.7	20.7	20.7	20.7	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	177.	177.	177.	177.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	0.93	0.93	0.93	0.93	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	79.5	79.5	79.5	79.5	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	9.14	9.14	9.14	9.14	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	32.7	32.7	32.7	32.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	47.3	47.3	47.3	47.3	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	74.9	74.9	74.9	74.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	95.	95.	95.	95.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	6.89	6.89	6.89	6.89	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	40.9	40.9	40.9	40.9	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	51.3	51.3	51.3	51.3	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	48.6	48.6	48.6	48.6	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	147.	147.	147.	147.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	63.	63.	63.	63.	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.5	0.5	0.54	0.46	0.003	0.057	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.115	0.115	0.19	0.04	0.011	0.106	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	1.765	1.765	3.07	0.46	3.406	1.846	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.17	0.17	0.3	0.04	0.034	0.184	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.006	0.006	0.01	0.002	0.	0.006	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.19	0.19	0.3	0.08	0.024	0.156	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.395	0.395	0.69	0.1	0.174	0.417	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.024	0.024	0.04	0.007	0.001	0.023	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.04	0.04	0.06	0.02	0.001	0.028	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	6.32	6.32	6.32	6.32	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	35.7	35.7	35.7	35.7	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/13/92-09/13/92	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	4.85	4.85	4.85	4.85	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: FRHI0065

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0066

NPS Station ID: FRHI0066
LAT/LON: 39.714365/ -79.923449
Agency: 21WV7IWQ
Date Created: 03/16/79
Location: Monongahela River below Hoard, W. Va.
FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550850 /M-02
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 091.80
HUC: 05020003
Depth of Water: 0
Aquifer:
Major Basin: Ohio River
Elevation: 797
Water Body Id: WVM
Minor Basin: Monongahela River
ECO Region: 70G
RF1 Index: 05020003001
RF1 Mile Point: 2.780
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 05020003004300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:
Monongahela River at the Fort Martin Power Plant Intake of the Monongahela Power Company about 1 Mile downstream and North of the Community of Hoard, Monongalia 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.
**> Morgantown-North, W.VA-PA. Quadrangle 7.5 Minute Topographic Map

Parameter Inventory for Station: FRHI0066

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: FRHI0067

NPS Station ID: FRHI0067 | LAT/LON: 39.772976/ -79.923338 | Agency: 11NPSWRD | Date Created: 09/27/97
Location: CELL 1 OF BOM WETLAND IN ICE POND RUN | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/MINE/IMPDMT/FWTLND | STORET Station ID(s): FRHI_CSU_2
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS IN CELL 1 OF THE BUREAU OF MINES CONSTRUCTED WETLAND ADJACENT TO ICE POND RUN. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	200.9	200.9	200.9	200.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	84.6	84.6	84.6	84.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	13.4	13.4	13.4	13.4	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	102.	102.	102.	102.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	4.91	4.91	4.91	4.91	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	3.91	3.91	3.91	3.91	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	15.8	15.8	15.8	15.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	8.28	8.28	8.28	8.28	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	11.8	11.8	11.8	11.8	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	122.	122.	122.	122.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	7.17	7.17	7.17	7.17	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	10.3	10.3	10.3	10.3	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.09	0.09	0.09	0.09	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: FRHI0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	5.95	5.95	5.95	5.95	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	34.5	34.5	34.5	34.5	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	28.4	28.4	28.4	28.4	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	22.9	22.9	22.9	22.9	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.365	0.365	0.44	0.29	0.011	0.106	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.045	0.045	0.06	0.03	0.	0.021	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	2.905	2.905	3.83	1.98	1.711	1.308	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.09	0.09	0.14	0.04	0.005	0.071	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.003	0.003	0.004	0.002	0.	0.001	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.225	0.225	0.34	0.11	0.026	0.163	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.008	0.008	0.01	0.006	0.	0.003	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.024	0.024	0.04	0.007	0.001	0.023	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	6.16	6.16	6.16	6.16	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	67.4	67.4	67.4	67.4	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	7.74	7.74	7.74	7.74	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: FRHI0067

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									

& - 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: FRHI0068

NPS Station ID: FRHI0068 | LAT/LON: 39.771865/ -79.923366 | Agency: 11NPSWRD | Date Created: 09/27/97
Location: ICE POND RUN DOWNSTREAM FROM STATE HIGHWAY 166 | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): FRHI_CSU_1
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON ICE POND RUN BELOW THE STATE HIGHWAY 166 BRIDGE. DATA ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	183.3	183.3	183.3	183.3	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	12.8	12.8	12.8	12.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	159.	159.	159.	159.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	3.92	3.92	3.92	3.92	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	488.	488.	488.	488.	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	18.8	18.8	18.8	18.8	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	39.2	39.2	39.2	39.2	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	36.8	36.8	36.8	36.8	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	70.1	70.1	70.1	70.1	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	54.2	54.2	54.2	54.2	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	18.6	18.6	18.6	18.6	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	1.2	1.2	2.01	0.39	1.312	1.146	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	10.305	10.305	16.8	3.81	84.37	9.185	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.155	0.155	0.18	0.13	0.001	0.035	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.013	0.013	0.02	0.006	0.	0.01	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.19	0.19	0.29	0.09	0.02	0.141	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.51	0.51	0.58	0.44	0.01	0.099	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	7.07	7.07	7.07	7.07	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	82.4	82.4	82.4	82.4	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	13.	13.	13.	13.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0068

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									

& - 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: FRHI0069

NPS Station ID: FRHI0069 | LAT/LON: 39.771865/ -79.923366 | Agency: 11NPSWRD | Date Created: 09/27/97
Location: ICE POND RUN DOWNSTREAM FROM STATE HIGHWAY 166 | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): FRHI_DOE_A
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON ICE POND RUN DOWNSTREAM FROM THE STATE HIGHWAY 166 BRIDGE. DATA FOR THE SITE ARE FROM THE 1991 FINAL REPORT "USE OF A CONSTRUCTED WETLAND FOR THE TREATMENT OF ACID MINE DRAINAGE AT FRIENDSHIP HILL NATIONAL HISTORIC SITE FAYETTE COUNTY PA". ADDITIONAL 1988-1996 DATA PROVIDED BY ANGELA COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/91-11/06/92	34	13.8	15.65	34.2	3.8	57.089	7.556	7.5	9.825	22.725	25.9
00403	PH, LAB, STANDARD UNITS SU	06/21/91-11/18/94	44	2.8	2.809	2.9	2.6	0.005	0.074	2.7	2.8	2.9	2.9
00403	CONVERTED PH, LAB, STANDARD UNITS	06/21/91-11/18/94	44	2.8	2.803	2.9	2.6	0.006	0.074	2.7	2.8	2.9	2.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/91-11/18/94	44	1584.893	1574.939	2511.886	1258.925	79420.719	281.817	1258.925	1258.925	1584.893	1995.262
00406	PH, FIELD, STANDARD UNITS SU	07/03/91-11/06/92	34	2.67	2.648	3.17	2.15	0.029	0.169	2.46	2.588	2.723	2.8
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/03/91-11/06/92	34	2.67	2.613	3.17	2.15	0.03	0.173	2.46	2.587	2.723	2.8
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/03/91-11/06/92	34	2137.962	2437.478	7079.458	676.083	1349092.956	1161.505	1584.893	1894.617	2585.364	3467.369
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/21/91-11/18/94	44	1208.	1192.114	1337.	668.	14878.01	121.975	1067.5	1142.5	1275.25	1307.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/21/91-06/07/96	45	311.	300.931	358.	180.6	1542.801	39.279	244.2	289.5	325.5	337.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/21/91-06/07/96	45	130.	126.082	148.	69.	227.052	15.068	112.	123.	134.5	138.36
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/21/91-06/07/96	45	5.9	5.799	6.6	4.11	0.251	0.501	5.204	5.55	6.1	6.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/04/94-06/07/96	3	0.71	0.837	1.39	0.41	0.252	0.502	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/21/91-06/07/96	45	2462.	2400.953	2800.	1358.2	87078.616	295.091	2148.8	2303.5	2587.5	2660.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/04/94-06/07/96	3 ##	50.	66.667	100.	50.	833.333	28.868	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/04/94-06/07/96	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/04/94-06/07/96	3	10.	13.333	20.	10.	33.333	5.774	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/04/94-06/07/96	3 ##	10.	11.667	20.	5.	58.333	7.638	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/04/94-06/07/96	3	20.	18.333	30.	5.	158.333	12.583	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/04/94-06/07/96	3	220.	220.	250.	190.	900.	30.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/04/94-06/07/96	3	110.	113.333	160.	70.	2033.333	45.092	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	06/21/91-06/07/96	45	54.	59.778	163.	3.	1801.677	42.446	4.6	25.	90.	125.6
01049	LEAD, DISSOLVED (UG/L AS PB)	04/04/94-06/07/96	3 ##	50.	66.667	100.	50.	833.333	28.868	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/21/91-06/07/96	45	12.4	12.187	14.2	7.5	1.866	1.366	10.66	11.5	13.1	13.64
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/04/94-06/07/96	3	360.	380.	430.	350.	1900.	43.589	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/04/94-06/07/96	3	900.	923.333	1030.	840.	9433.333	97.125	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	04/04/94-06/07/96	3 ##	50.	66.667	100.	50.	833.333	28.868	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	06/21/91-06/07/96	45	74000.	73097.778	83300.	44530.	65631617.677	8101.334	65200.	69850.	78750.	81412.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/04/94-06/07/96	3 ##	250.	316.667	500.	200.	25833.333	160.728	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/21/91-06/07/96	45	271.	265.205	339.	102.74	2391.765	48.906	218.6	241.5	299.5	317.6

** - 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: FRHI0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00403	PH, LAB	Other-Hi Lim.	9.	44	0	0.00	20	0	0.00	17	0	0.00	7	0	0.00			
		Other-Lo Lim.	6.5	44	44	1.00	20	20	1.00	17	17	1.00	7	7	1.00			
00406	PH, FIELD	Other-Hi Lim.	9.	34	0	0.00	15	0	0.00	16	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	34	34	1.00	15	15	1.00	16	16	1.00	3	3	1.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	45	45	1.00	20	20	1.00	17	17	1.00	8	8	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	50.	0 &	0	0.00												
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00				1	0	0.00	2	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	4.	2 &	2	1.00				1	1	1.00	1	1	1.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1 &	1	1.00							1	1	1.00			
		Drinking Water	5.	1 &	1	1.00							1	1	1.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00				1	0	0.00	2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	3	1.00				1	1	1.00	2	2	1.00			
		Drinking Water	1300.	3	0	0.00				1	0	0.00	2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2 &	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	100.	3	3	1.00				1	1	1.00	2	2	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	3	1.00				1	1	1.00	2	2	1.00			
		Drinking Water	5000.	3	0	0.00				1	0	0.00	2	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	2 &	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	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: FRHI0070

NPS Station ID: FRHI0070 LAT/LON: 39.772865/ -79.923754 Agency: 11NPSWRD Date Created: 09/27/97
Location: ICE POND RUN ADJACENT TO BOM WETLAND FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_CSU_6
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON ICE POND RUN ADJACENT TO THE BUREAU OF MINES CONSTRUCTED WETLAND. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	202.7	202.7	202.7	202.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	86.6	86.6	86.6	86.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	14.3	14.3	14.3	14.3	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	153.	153.	153.	153.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	249.	249.	249.	249.	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	13.5	13.5	13.5	13.5	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	21.7	21.7	21.7	21.7	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	13.9	13.9	13.9	13.9	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	24.2	24.2	24.2	24.2	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	108.	108.	108.	108.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	20.4	20.4	20.4	20.4	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.08	0.08	0.08	0.08	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: FRHI0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	67.	67.	67.	67.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	72.6	72.6	72.6	72.6	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	41.9	41.9	41.9	41.9	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	14.6	14.6	14.6	14.6	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.78	0.78	1.2	0.36	0.353	0.594	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	8.83	8.83	9.77	7.89	1.767	1.329	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.125	0.125	0.18	0.07	0.006	0.078	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.054	0.054	0.1	0.007	0.004	0.066	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.15	0.15	0.18	0.12	0.002	0.042	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.415	0.415	0.52	0.31	0.022	0.148	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	4.76	4.76	4.76	4.76	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	65.4	65.4	65.4	65.4	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	22.	22.	22.	22.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: FRHI0070

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									

& - 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: FRHI0071

NPS Station ID: FRHI0071 LAT/LON: 39.772865/ -79.923754 Agency: 11NPSWRD Date Created: 09/27/97
Location: ICE POND RUN ADJACENT TO BOM WETLAND FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_DOE_B
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON ICE POND RUN ADJACENT TO THE BUREAU OF MINES CONSTRUCTED WETLAND. DATA ARE FROM THE 1991 FINAL REPORT "USE OF A CONSTRUCTED WETLAND FOR THE TREATMENT OF ACID MINE DRAINAGE AT FRIENDSHIP HILL NATIONAL HISTORIC SITE FAYETTE COUNTY PA". ADDITIONAL 1988-1996 DATA PROVIDED BY ANGELA COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	04/04/94-04/04/94	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/94-04/04/94	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/94-04/04/94	1	1995.262	1995.262	1995.262	1995.262	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/04/94-04/04/94	1	603.	603.	603.	603.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/04/94-06/07/96	2	154.35	154.35	188.3	120.4	2305.205	48.013	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/04/94-06/07/96	2	63.7	63.7	75.6	51.8	283.22	16.829	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/04/94-06/07/96	2	3.95	3.95	4.32	3.58	0.274	0.523	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/04/94-06/07/96	2	0.295	0.295	0.35	0.24	0.006	0.078	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/04/94-06/07/96	2	1264.25	1264.25	1454.1	1074.4	72086.045	268.488	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/04/94-06/07/96	2 ##	75.	75.	100.	50.	1250.	35.355	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/04/94-06/07/96	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/04/94-06/07/96	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/04/94-06/07/96	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/04/94-06/07/96	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/04/94-06/07/96	2	170.	170.	190.	150.	800.	28.284	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/04/94-06/07/96	2	105.	105.	110.	100.	50.	7.071	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	04/04/94-06/07/96	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/04/94-06/07/96	2 ##	75.	75.	100.	50.	1250.	35.355	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/04/94-06/07/96	2	6.4	6.4	7.4	5.4	2.	1.414	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/04/94-06/07/96	2	330.	330.	380.	280.	5000.	70.711	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/04/94-06/07/96	2	735.	735.	810.	660.	11250.	106.066	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	04/04/94-06/07/96	2 ##	75.	75.	100.	50.	1250.	35.355	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/04/94-06/07/96	2	39355.	39355.	43890.	34820.	41132450.	6413.459	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/04/94-06/07/96	2	## 375.	375.	500.	250.	31250.	176.777	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	04/04/94-06/07/96	2	111.27	111.27	114.51	108.03	20.995	4.582	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	2	1.00							2	2	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00							2	0	0.00			
		Drinking Water	50.	0 &	0	0.00												
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00							2	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00							2	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00							2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	2	1.00							2	2	1.00			
		Drinking Water	1300.	2	0	0.00							2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1 &	0	0.00							1	0	0.00			
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00							2	0	0.00			
		Drinking Water	100.	2	2	1.00							2	2	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	2	1.00							2	2	1.00			
		Drinking Water	5000.	2	0	0.00							2	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1 &	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	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: FRHI0072

NPS Station ID: FRHI0072 | LAT/LON: 39.773838/ -79.923754 | Agency: 11NPSWRD | Date Created: 09/27/97
Location: CELL 3 OF BOM WETLAND IN ICE POND RUN | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/MINE/IMPDMT/FWTLND | STORET Station ID(s): FRHI_CSU_4
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS IN CELL 3 OF THE BUREAU OF MINES CONSTRUCTED WETLAND ADJACENT TO ICE POND RUN. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	231.2	231.2	231.2	231.2	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	87.1	87.1	87.1	87.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	19.9	19.9	19.9	19.9	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	105.	105.	105.	105.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	1.61	1.61	1.61	1.61	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	64.2	64.2	64.2	64.2	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	8.53	8.53	8.53	8.53	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	32.1	32.1	32.1	32.1	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	134.	134.	134.	134.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	88.	88.	88.	88.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.09	0.09	0.09	0.09	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: FRHI0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	107.	107.	107.	107.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	48.7	48.7	48.7	48.7	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	23.7	23.7	23.7	23.7	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	411.	411.	411.	411.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	97.6	97.6	97.6	97.6	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.41	0.41	0.53	0.29	0.029	0.17	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.29	0.29	0.52	0.06	0.106	0.325	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	1.545	1.545	2.42	0.67	1.531	1.237	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.145	0.145	0.24	0.05	0.018	0.134	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.012	0.012	0.02	0.003	0.	0.012	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.31	0.31	0.52	0.1	0.088	0.297	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.22	0.22	0.32	0.12	0.02	0.141	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.009	0.009	0.01	0.007	0.	0.002	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	7.01	7.01	7.01	7.01	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	13.	13.	13.	13.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/13/92-09/13/92	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	4.72	4.72	4.72	4.72	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: FRHI0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0073

NPS Station ID: FRHI0073 LAT/LON: 39.787504/ -79.923892 Agency: 112WRD Date Created: / /
Location: MONONGAHELA RIVER AT GREENSBORO, PA. FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03072500
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 05020005003002.73 RF3 Mile Point: 3.94 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/01/68-07/01/68	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	07/01/68-07/01/68	1	1410.	1410.	1410.	1410.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/01/68-07/01/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/68-07/01/68	1	855.	855.	855.	855.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/01/68-07/01/68	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/01/68-07/01/68	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/01/68-07/01/68	1	501.187	501.187	501.187	501.187	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/01/68-07/01/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/01/68-07/01/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/01/68-07/01/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/01/68-07/01/68	1	216.	216.	216.	216.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/01/68-07/01/68	1	216.	216.	216.	216.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/68-07/01/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/68-07/01/68	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/01/68-07/01/68	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/01/68-07/01/68	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/01/68-07/01/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/01/68-07/01/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/01/68-07/01/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/01/68-07/01/68	1	335.	335.	335.	335.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/01/68-07/01/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/01/68-07/01/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/01/68-07/01/68	1	360.	360.	360.	360.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/01/68-07/01/68	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/01/68-07/01/68	1	6500.	6500.	6500.	6500.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/01/68-07/01/68	1	521.	521.	521.	521.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/01/68-07/01/68	1	473.	473.	473.	473.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	07/01/68-07/01/68	1	1980.01	1980.01	1980.01	1980.01	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/01/68-07/01/68	1	0.71	0.71	0.71	0.71	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	07/01/68-07/01/68	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/01/68-07/01/68	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: FRHI0073

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	1	1.00	1	1	1.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0074

NPS Station ID: FRHI0074
LAT/LON: 39.774031/ -79.924281
Agency: 11NPSWRD
Date Created: 09/27/97
Location: UPPER POND DAM ON ICE POND RUN
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): FRHI_BOM_3
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE DAM FOR THE UPPER OF THE TWO SETTLING PONDS ON ICE POND RUN. DATA FOR THE SITE ARE FROM THE 198 "FRIENDSHIP HILL PROJECT STATUS REPORT - PHASE 1 FEASIBILITY STUDY" PREPARED FOR THE NATIONAL PARK SERVICE BY THE BUREAU OF MINES; FOR MORE INFORMATION CONTACT ANGELA R. COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PENNSYLVANIA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	1	2100.	2100.	2100.	2100.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/09/83-03/09/83	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/83-03/09/83	1	1995.262	1995.262	1995.262	1995.262	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	1	745.	745.	745.	745.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	1	367.1	367.1	367.1	367.1	0.	0.	**	**	**	**
00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	1	205.8	205.8	205.8	205.8	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	1	1230.	1230.	1230.	1230.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	1	7500.	7500.	7500.	7500.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	1	34300.	34300.	34300.	34300.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	1	1876.	1876.	1876.	1876.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	1	162.	162.	162.	162.	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: FRHI0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						

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

Station Inventory for Station: FRHI0075

NPS Station ID: FRHI0075 LAT/LON: 39.774031/ -79.924281 Agency: 11NPSWRD Date Created: 09/27/97
Location: OUTLET FOR BOM WETLAND TO ICE POND RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/MINE/IMPDMT/FWTLND STORET Station ID(s): FRHI_CSU_5
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT THE OUTLET PIPE FOR THE BUREAU OF MINES CONSTRUCTED WETLAND ADJACENT TO ICE POND RUN. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	233.5	233.5	233.5	233.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	19.8	19.8	19.8	19.8	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	339.	339.	339.	339.	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	7.17	7.17	7.17	7.17	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	29.2	29.2	29.2	29.2	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	21.3	21.3	21.3	21.3	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	36.2	36.2	36.2	36.2	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	21.3	21.3	21.3	21.3	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	77.1	77.1	77.1	77.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	9.44	9.44	9.44	9.44	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.43	0.43	0.47	0.39	0.003	0.057	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.08	0.08	0.11	0.05	0.002	0.042	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	10.115	10.115	12.7	7.53	13.364	3.656	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.125	0.125	0.21	0.04	0.014	0.12	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.007	0.007	0.01	0.004	0.	0.004	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.375	0.375	0.55	0.2	0.061	0.247	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.295	0.295	0.48	0.11	0.068	0.262	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.013	0.013	0.02	0.006	0.	0.01	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.019	0.019	0.03	0.007	0.	0.016	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	3.98	3.98	3.98	3.98	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	36.	36.	36.	36.	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	13.8	13.8	13.8	13.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0075

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									

& - 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: FRHI0076

NPS Station ID: FRHI0076 LAT/LON: 39.774809/ -79.924559 Agency: 11NPSWRD Date Created: 09/27/97
Location: ICE POND RUN DOWNSTREAM FROM BOM WETLAND FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_DOE_C
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON ICE POND RUN DOWNSTREAM FROM THE BUREAU OF MINES CONSTRUCTED WETLAND. DATA ARE FROM THE 1991 FINAL REPORT "USE OF A CONSTRUCTED WETLAND FOR THE TREATMENT OF ACID MINE DRAINAGE AT FRIENDSHIP HILL NATIONAL HISTORIC SITE FAYETTE COUNTY PA". ADDITIONAL 1988-1996 DATA PROVIDED BY ANGELA COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	04/04/94-12/19/94	4	2.95	2.925	3.1	2.7	0.043	0.206	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/94-12/19/94	4	2.925	2.889	3.1	2.7	0.044	0.21	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/94-12/19/94	4	1189.611	1292.203	1995.262	794.328	358572.838	598.81	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/04/94-12/19/94	4	414.5	430.25	634.	258.	40013.583	200.034	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/04/94-06/07/96	5	111.	133.42	188.9	92.5	2256.787	47.506	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/04/94-06/07/96	5	47.6	52.18	76.8	33.9	390.352	19.757	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/04/94-06/07/96	5	4.18	4.304	5.46	3.76	0.454	0.674	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/04/94-06/07/96	5	1.22	1.378	2.53	0.3	0.957	0.979	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/04/94-06/07/96	5	994.5	1011.56	1460.7	621.	155320.793	394.108	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/04/94-06/07/96	5 ##	50.	60.	100.	50.	500.	22.361	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/04/94-06/07/96	5 ##	10.	13.	20.	5.	45.	6.708	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/04/94-06/07/96	5 ##	10.	8.	10.	5.	7.5	2.739	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/04/94-06/07/96	5 ##	5.	7.	10.	5.	7.5	2.739	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/04/94-06/07/96	5 ##	10.	8.	10.	5.	7.5	2.739	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/04/94-06/07/96	5	140.	152.	210.	100.	2570.	50.695	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/04/94-06/07/96	5	60.	66.	130.	10.	2430.	49.295	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	04/04/94-06/07/96	5	2.	2.	3.	1.	0.5	0.707	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/04/94-06/07/96	5 ##	50.	60.	100.	50.	500.	22.361	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/04/94-06/07/96	5	5.6	6.62	9.5	5.	3.402	1.844	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/04/94-06/07/96	5	250.	256.	360.	140.	9730.	98.641	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/04/94-06/07/96	5	610.	630.	930.	380.	63650.	252.29	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	04/04/94-06/07/96	5 ##	50.	60.	100.	50.	500.	22.361	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/04/94-06/07/96	5	32280.	34476.	48050.	23150.	138526080.	11769.71	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/04/94-06/07/96	5	## 200.	270.	500.	200.	17000.	130.384	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	04/04/94-06/07/96	5	97.98	75.36	116.05	29.62	1717.887	41.447	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: FRHI0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00				3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00				3	3	1.00	1	1	1.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	5	5	1.00				3	3	1.00	2	2	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00				3	0	0.00	2	0	0.00			
		Drinking Water	50.	0 &	0	0.00												
01005	BARIUM, DISSOLVED	Drinking Water	2000.	5	0	0.00				3	0	0.00	2	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	5	0	0.00				3	0	0.00	2	0	0.00			
		Drinking Water	4.	1 &	1	1.00				1	1	1.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	5	0	0.00				3	0	0.00	2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	5	4	0.80				3	2	0.67	2	2	1.00			
		Drinking Water	1300.	5	0	0.00				3	0	0.00	2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	4 &	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	5	0	0.00				3	0	0.00	2	0	0.00			
		Drinking Water	100.	5	5	1.00				3	3	1.00	2	2	1.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	5	5	1.00				3	3	1.00	2	2	1.00			
		Drinking Water	5000.	5	0	0.00				3	0	0.00	2	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	4 &	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	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: FRHI0077

NPS Station ID: FRHI0077 LAT/LON: 39.774809/ -79.924559 Agency: 11NPSWRD Date Created: 09/27/97
Location: ICE POND RUN DOWNSTREAM FROM BOM WETLAND FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): FRHI_CSU_7
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON ICE POND RUN BELOW THE BUREAU OF MINES CONSTRUCTED WETLAND OUTLET TO ICE POND RUN. DATA FOR THE SITE ARE FROM 1992 AND 1995 UNPUBLISHED RESEARCH BY DR. DEL NIMMO OF COLORADO STATE UNIVERSITY IN CONJUNCTION WITH THE NATIONAL PARK SERVICE FRIENDSHIP HILL NATIONAL HISTORICAL SITE STAFF. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/13/92-09/13/92	1	205.8	205.8	205.8	205.8	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/13/92-09/13/92	1	87.4	87.4	87.4	87.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/13/92-09/13/92	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/13/92-09/13/92	1	14.2	14.2	14.2	14.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/13/92-09/13/92	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/13/92-09/13/92	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	11/18/94-11/18/94	1	2.59	2.59	2.59	2.59	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	09/13/92-09/13/92	1	353.	353.	353.	353.	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	11/18/94-11/18/94	1	11.9	11.9	11.9	11.9	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/13/92-09/13/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	17.9	17.9	17.9	17.9	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/18/94-11/18/94	1	9.55	9.55	9.55	9.55	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/13/92-09/13/92	1	24.5	24.5	24.5	24.5	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/13/92-09/13/92	1	107.	107.	107.	107.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/13/92-09/13/92	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/13/92-09/13/92	1	31.8	31.8	31.8	31.8	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/13/92-09/13/92	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/13/92-09/13/92	1	0.09	0.09	0.09	0.09	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: FRHI0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/13/92-09/13/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/13/92-09/13/92	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/13/92-09/13/92	1	7.07	7.07	7.07	7.07	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	09/13/92-09/13/92	1	72.2	72.2	72.2	72.2	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/13/92-09/13/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	09/13/92-09/13/92	1	87.3	87.3	87.3	87.3	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/13/92-09/13/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/13/92-09/13/92	1	37.9	37.9	37.9	37.9	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/13/92-09/13/92	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01140	SILICON, DISSOLVED (UG/L AS SI)	09/13/92-09/13/92	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	09/13/92-09/13/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01157	ZINC, TOTAL IN BOTTOM DEPOSITS (MG/KG AS ZN)	11/18/94-11/18/94	1	23.7	23.7	23.7	23.7	0.	0.	**	**	**	**
30220	ALUMINUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	1.585	1.585	2.86	0.31	3.251	1.803	**	**	**	**
30239	CALCIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
30268	IRON, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	8.005	8.005	13.	3.01	49.9	7.064	**	**	**	**
30276	MAGNESIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.175	0.175	0.21	0.14	0.002	0.049	**	**	**	**
30278	MANGANESE, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
30291	PHOSPHOROUS, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.12	0.12	0.21	0.03	0.016	0.127	**	**	**	**
30293	POTASSIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.505	0.505	0.51	0.5	0.	0.007	**	**	**	**
30303	SODIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
30316	TITANIUM, SEDIMENT, BOTTOM MATERIAL, PERCENT	09/13/92-11/18/94	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
50788	INVALID PARAMETER	11/18/94-11/18/94	1	6.32	6.32	6.32	6.32	0.	0.	**	**	**	**
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	09/13/92-09/13/92	1	70.3	70.3	70.3	70.3	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	11/18/94-11/18/94	1	5.92	5.92	5.92	5.92	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: FRHI0077

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
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									

& - 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: FRHI0078

NPS Station ID: FRHI0078
LAT/LON: 39.751392/ -79.925004
Agency: 112WRD
Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT DILLNER, PA # 217
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071706
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005037
RF1 Mile Point: 1.480
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005012200.00
RF3 Mile Point: 1.15
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	4	18.	16.125	19.	9.5	19.896	4.46	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	4	0.15	0.178	0.4	0.01	0.028	0.167	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	4	1550.	1540.	1800.	1260.	50400.	224.499	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/19/81	4	2.7	2.6	2.9	2.1	0.12	0.346	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/19/81	4	2.7	2.482	2.9	2.1	0.139	0.372	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/19/81	4	1995.262	3298.183	7943.282	1258.925	9710241.36	3116.126	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	1584.893	1584.893	1584.893	1584.893	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	4	300.	292.5	390.	180.	7491.667	86.554	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	2	0.85	0.85	0.9	0.8	0.005	0.071	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	2	280.	280.	340.	220.	7200.	84.853	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	2	71.	71.	86.	56.	450.	21.213	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	2	25.	25.	31.	19.	72.	8.485	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	2	4.8	4.8	5.	4.6	0.08	0.283	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/19/81	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	2	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	4	3.	3.25	5.	2.	1.583	1.258	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	4	565.	550.	690.	380.	16733.333	129.357	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	2	37.	37.	44.	30.	98.	9.899	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	100.	366.667	1000.	0.	303333.333	550.757	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	4	15200.	21400.	48000.	7200.	359520000.	18961.013	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	4	15000.	21775.	50000.	7100.	391935833.333	19797.369	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	4	0.	75.	300.	0.	22500.	150.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	4	3200.	3100.	3900.	2100.	553333.333	743.864	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	4	3300.	3075.	3600.	2100.	442500.	665.207	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	24000.	24000.	24000.	24000.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	2	10750.	10750.	12000.	9500.	3125000.	1767.767	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	4	995.5	923.	1060.	641.	37588.667	193.878	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	4	0.45	0.535	1.21	0.03	0.271	0.521	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	2	1.08	1.08	1.29	0.87	0.088	0.297	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	4	6.05	5.875	7.8	3.6	3.023	1.739	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	3	3	1.00				1	1	1.00			
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									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01091	ZINC, SUSPENDED	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	1	1.00	1	1	1.00									
		Drinking Water	5000.	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: FRHI0079

NPS Station ID: FRHI0079 LAT/LON: 39.721392/ -79.925837 Agency: 112WRD Date Created: 05/03/80
Location: CROOKED RUN NEAR POINT MARION, PA # 215 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03062966
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020003 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020003001 RF1 Mile Point: 1.750 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005001100.00 RF3 Mile Point: 0.84 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	4	17.	16.625	20.5	12.	18.229	4.27	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	4	3.	2.755	5.	0.02	4.213	2.053	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	4	630.	646.25	825.	500.	18022.917	134.249	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/20/81	4	7.75	7.6	7.9	7.	0.167	0.408	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/20/81	4	7.747	7.431	7.9	7.	0.205	0.453	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/20/81	4	0.018	0.037	0.1	0.013	0.002	0.042	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-09/05/80	3	2.1	6.5	16.	1.4	67.81	8.235	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	4	63.	67.	84.	58.	140.	11.832	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	4	2.	5.2	16.	0.8	52.16	7.222	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-09/05/80	3	81.	84.	100.	71.	217.	14.731	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	2	0.65	0.65	0.8	0.5	0.045	0.212	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	2	280.	280.	350.	210.	9800.	98.995	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	2	210.	210.	290.	130.	12800.	113.137	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	2	80.	80.	100.	60.	800.	28.284	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	2	20.	20.	25.	15.	50.	7.071	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	2	21.5	21.5	31.	12.	180.5	13.435	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	2	0.55	0.55	0.7	0.4	0.045	0.212	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/20/81	2	13.5	13.5	16.	11.	12.5	3.536	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	2	5.8	5.8	7.4	4.2	5.12	2.263	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	4	4.	4.5	7.	3.	3.	1.732	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	4	225.	235.	340.	150.	6300.	79.373	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	2	7.7	7.7	8.7	6.7	2.	1.414	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	3	60.	160.	380.	40.	36400.	190.788	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	4	390.	515.	1200.	80.	229966.667	479.548	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	4	180.	255.	640.	20.	88633.333	297.714	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	4	10.	30.	100.	0.	2266.667	47.61	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	4	315.	340.	720.	10.	86200.	293.598	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	4	255.	317.5	740.	20.	96425.	310.524	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	2	220.	220.	380.	60.	51200.	226.274	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	4	434.5	452.	608.	331.	13198.	114.883	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	2	433.5	433.5	560.	307.	32004.5	178.898	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	4	3.31	2.848	4.74	0.03	3.983	1.996	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	3	0.59	0.623	0.83	0.45	0.037	0.192	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	4	0.02	0.085	0.3	0.	0.021	0.145	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0079

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	1	0.25	3	1	0.33				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									
01091	ZINC, SUSPENDED	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									

& - 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: FRHI0080

NPS Station ID: FRHI0080 | LAT/LON: 39.778059/ -79.926587 | Agency: 11NPSWRD | Date Created: 09/27/97
Location: LOWER POND DAM ON ICE POND RUN | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): FRHI_BOM_4
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 05020005 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020005 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THIS SITE IS LOCATED ON THE MASONTOWN PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON THE DOWNSTREAM SETTLING POND DAM ON ICE POND RUN. DATA FOR THE SITE ARE FROM THE 1985 "FRIENDSHIP HILL PROJECT STATUS REPORT - PHASE 1 FEASIBILITY STUDY" PREPARED FOR THE NATIONAL PARK SERVICE BY THE BUREAU OF MINES; FOR MORE INFORMATION CONTACT ANGELA R. COOPER DEPARTMENT OF ENERGY PITTSBURGH RESEARCH CENTER P.O. BOX 18070 PITTSBURGH PENNSYLVANIA 15236-0070. LATITUDE AND LONGITUDE COORDINATE VALUES OBTAINED BY DIGITIZING A POINT ON THE QUADRANGLE MAP MATCHING THE LOCATION DESCRIPTION IN THE REPORT. FOR MORE INFORMATION CONTACT RESOURCE MANAGEMENT AT FRIENDSHIP HILL NATIONAL HISTORICAL SITE R.D. 1 BOX 149A POINT MARION PA 15474. TEL. 412-725-9190. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DR SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/83-03/09/83	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/09/83-03/09/83	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/09/83-03/09/83	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/83-03/09/83	1	1995.262	1995.262	1995.262	1995.262	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	03/09/83-03/09/83	1	679.	679.	679.	679.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/83-03/09/83	1	322.2	322.2	322.2	322.2	0.	0.	**	**	**	**
00920	MAGNESIUM (MG/L AS CACO3)	03/09/83-03/09/83	1	189.4	189.4	189.4	189.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/83-03/09/83	1	1090.	1090.	1090.	1090.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	03/09/83-03/09/83	1	4700.	4700.	4700.	4700.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/83-03/09/83	1	7100.	7100.	7100.	7100.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/09/83-03/09/83	1	30000.	30000.	30000.	30000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/83-03/09/83	1	1764.	1764.	1764.	1764.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	03/09/83-03/09/83	1	151.	151.	151.	151.	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: FRHI0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						

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

Station Inventory for Station: FRHI0081

NPS Station ID: FRHI0081
LAT/LON: 39.852920/ -79.927226
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER RM 79.2
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4MON13079
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 079.15
HUC: 05020004
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 79.15 MILES UPSTREAM FROM PITTSBURGH, PA. IN THE MAXWELL POOL AT THE MASONTOWN HIGHWAY BRIDGE IN MID-CHANNEL MASONTOWN, PA. QUAD. SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/73-07/20/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/20/73-07/20/73	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/20/73-07/20/73	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/20/73-07/20/73	1	570.	570.	570.	570.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/20/73-07/20/73	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/20/73-07/20/73	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/73-07/20/73	1	79.433	79.433	79.433	79.433	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/20/73-07/20/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/20/73-07/20/73	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	07/20/73-07/20/73	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	07/20/73-07/20/73	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/20/73-07/20/73	1	214.	214.	214.	214.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/19/73-07/20/73	2	815.	815.	980.	650.	54450.	233.345	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	07/20/73-07/20/73	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: FRHI0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
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									

& - 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: FRHI0082

NPS Station ID: FRHI0082 LAT/LON: 39.757781/ -79.933060 Agency: 112WRD Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT POLAND MINES, PA # 218 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03071708
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005037 RF1 Mile Point: 0.240 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005041900.00 RF3 Mile Point: 0.09 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	4	18.25	15.875	19.	8.	27.729	5.266	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	4	0.45	0.44	0.8	0.06	0.093	0.305	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	4	1900.	1870.	2100.	1580.	52933.333	230.072	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/19/81	4	2.8	2.75	3.1	2.3	0.11	0.332	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/19/81	4	2.8	2.649	3.1	2.3	0.124	0.352	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/19/81	4	1584.893	2243.997	5011.872	794.328	3543836.355	1882.508	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	1584.893	1584.893	1584.893	1584.893	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	4	360.	330.	400.	200.	8466.667	92.014	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	2	635.	635.	660.	610.	1250.	35.355	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	2	160.	160.	180.	140.	800.	28.284	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	2	58.	58.	64.	52.	72.	8.485	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	2	4.7	4.7	8.6	0.8	30.42	5.515	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	2	0.05	0.05	0.1	0.	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/19/81	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	2	2.1	2.1	2.5	1.7	0.32	0.566	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	4	2.5	2.5	3.	2.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	4	830.	817.5	910.	700.	7625.	87.321	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	2	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	2 ##	27.525	27.525	55.	0.05	1509.751	38.856	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	0.	666.667	2000.	0.	1333333.333	1154.701	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	4	22000.	25500.	46000.	12000.	219666666.667	14821.156	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	4	21500.	22251.25	46000.	5.	357509172.917	18907.913	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	4	100.	292.5	970.	0.	212891.667	461.402	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	4	6350.	5317.5	7600.	970.	8762558.333	2960.162	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	4	6750.	5226.25	7400.	5.	12225089.583	3496.44	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1	520.	520.	520.	520.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	550.	550.	550.	550.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	35000.	35000.	35000.	35000.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	2	17000.	17000.	18000.	16000.	2000000.	1414.214	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	17000.	17000.	17000.	17000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	4	1410.	1377.5	1620.	1070.	53491.667	231.283	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	4	1.455	1.56	3.07	0.26	1.43	1.196	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	2	1.83	1.83	2.2	1.46	0.274	0.523	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	4	7.2	6.6	8.1	3.9	3.66	1.913	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0082

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	3	3	1.00				1	1	1.00			
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									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01091	ZINC, SUSPENDED	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	1	1.00	1	1	1.00									
		Drinking Water	5000.	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: FRHI0083

NPS Station ID: FRHI0083 LAT/LON: 39.765004/ -79.935004 Agency: 21PAFISH Date Created: 09/22/79
Location: DUNKARD TWP.-GREENE CO.-MONONGAHELA R FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII6PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005029 RF1 Mile Point: 2.704 Distance from RF1: 9.00 On/Off RF1: OFF
RF3 Index: 05020005006000.00 RF3 Mile Point: 0.74 Distance from RF3: 0.06 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -MONONGAHELA RIVER ABOVE CHEAT RIVER

Parameter Inventory for Station: FRHI0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0084

NPS Station ID: FRHI0084
LAT/LON: 39.859449/ -79.946393
Agency: 112WRD
Date Created: 05/03/80
Location: LITTLE WHITELEY CREEK AT PAISLEY, PA # 209
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072755
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005026
RF1 Mile Point: 1.260
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005002700.00
RF3 Mile Point: 1.99
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	4	19.5	18.5	21.	14.	9.667	3.109	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	4	5.	9.9	29.	0.6	169.107	13.004	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	4	612.5	617.5	900.	345.	55908.333	236.449	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/19/81	4	8.3	8.175	8.7	7.4	0.329	0.574	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/19/81	4	8.255	7.879	8.7	7.4	0.446	0.668	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/19/81	4	0.006	0.013	0.04	0.002	0.	0.018	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/19/81	4	1.9	2.35	4.8	0.8	2.943	1.716	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	4	125.	118.	160.	62.	1682.667	41.02	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-09/05/80	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/19/81	4	145.	139.	190.	76.	2364.	48.621	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/22/80-08/19/81	2	100.	100.	190.	10.	16200.	127.279	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/19/81	2	0.8	0.8	0.9	0.7	0.02	0.141	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	2	265.	265.	390.	140.	31250.	176.777	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/19/81	2	37.5	37.5	75.	0.	2812.5	53.033	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	2	69.5	69.5	100.	39.	1860.5	43.134	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	2	21.4	21.4	33.	9.8	269.12	16.405	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	2	27.	27.	45.	9.	648.	25.456	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	2	0.65	0.65	1.	0.3	0.245	0.495	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/19/81	2	16.	16.	20.	12.	32.	5.657	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	2	3.45	3.45	3.7	3.2	0.125	0.354	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	4	7.5	8.75	14.	6.	12.917	3.594	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	4	180.	170.	250.	70.	6600.	81.24	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	2	9.05	9.05	10.	8.1	1.805	1.344	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-09/05/80	2	825.	825.	1400.	250.	661250.	813.173	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	4	840.	907.5	1800.	150.	668891.667	817.858	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	4	35.	216.25	790.	5.	146522.917	382.783	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	4	85.	137.5	380.	0.	28558.333	168.992	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	4	395.	357.5	480.	160.	19358.333	139.134	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	4	205.	220.	430.	40.	27000.	164.317	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	2 ##	200.	200.	350.	50.	45000.	212.132	**	**	**	**

** - 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 time series plot

Parameter Inventory for Station: FRHI0084

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	08/29/79-08/19/81	4	432.5	431.5	643.	218.	34319.	185.254	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/19/81	2	465.	465.	740.	190.	151250.	388.909	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	4	5.275	7.16	17.1	0.99	49.886	7.063	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	4	0.59	0.588	0.87	0.3	0.062	0.249	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-09/05/80	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0084

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	1	0.25	3	1	0.33				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0085

NPS Station ID: FRHI0085
LAT/LON: 39.683615/ -79.948059
Agency: 11COEHUN
Date Created: 07/07/79
Location: MONONGAHELA RIVER MILE 94.7
FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 4PMP11004
RMI-Indexes: 1021500 007720 21680
Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 094.70
HUC: 05020003
Depth of Water: 50
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020003
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020003009200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.03
On/Off RF3:
Description:
LOCATED ON THE MONONGAHELA RIVER 94.7 MILES UPSTREAM FROM PITTSBURGH, PA IN POOL NO. 8, 3.9 MILES UPSTREAM OF LOCK AND DAM NO. 8 OPPOSITE COBURN LANDING DAYMARK AT MID-CHANNEL - MORGANTOWN NORTH, W.VA. - PA. QUAD. SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	90	25.2	24.782	28.8	18.5	6.008	2.451	21.91	23.975	26.5	26.8
00032	CLOUD COVER (PERCENT)	06/20/78-06/20/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/20/78-06/26/79	2	51.	51.	60.	42.	162.	12.728	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	90	408.	415.322	680.	230.	13710.086	117.09	240.1	341.25	481.5	569.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	90	7.2	7.354	9.2	5.6	0.709	0.842	6.5	6.8	7.9	8.49
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	77	6.6	6.646	7.5	5.7	0.185	0.43	6.	6.4	7.	7.21
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	77	6.6	6.421	7.5	5.7	0.236	0.486	6.	6.4	7.	7.21
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	77	0.251	0.379	1.995	0.032	0.222	0.471	0.062	0.1	0.398	1.

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

EPA Water Quality Criteria Analysis for Station: FRHI0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	90	0	0.00	69	0	0.00				21	0	0.00			
00400	PH	Other-Hi Lim.	9.	77	0	0.00	69	0	0.00				8	0	0.00			
		Other-Lo Lim.	6.5	77	29	0.38	69	29	0.42				8	0	0.00			

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

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	69	25.8	25.883	28.8	23.9	1.484	1.218	24.5	24.8	26.5	27.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	69	414.	436.594	680.	230.	14143.803	118.928	319.	345.	550.	570.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	69	7.1	7.148	8.6	5.6	0.453	0.673	6.5	6.75	7.6	8.1
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	69	6.6	6.622	7.5	5.7	0.2	0.447	6.	6.4	7.05	7.21
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	69	6.6	6.391	7.5	5.7	0.254	0.504	6.	6.4	7.05	7.21
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	69	0.251	0.406	1.995	0.032	0.241	0.491	0.062	0.09	0.398	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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/75-08/25/92	21	22.	21.167	24.2	18.5	3.784	1.945	18.5	18.65	22.4	23.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/03/75-08/25/92	21	370.	345.429	430.	240.	6230.457	78.933	240.	243.	424.	428.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/03/75-08/25/92	21	7.9	8.033	9.2	5.8	0.984	0.992	6.6	7.55	9.2	9.2
00400	PH (STANDARD UNITS)	06/03/75-08/25/92	8	6.9	6.856	7.	6.7	0.01	0.098	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/03/75-08/25/92	8	6.9	6.846	7.	6.7	0.01	0.099	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/75-08/25/92	8	0.126	0.142	0.2	0.1	0.001	0.033	**	**	**	**

** - Less than 9 observations ## - Computed 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: FRHI0086

NPS Station ID: FRHI0086 LAT/LON: 39.750005/ -79.950005 Agency: 1114O100 Date Created: 12/13/86
Location: EAST DUNKARD WTP INTAKE MONONGAHELA RM 88 FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): 414544RAW
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005037 RF1 Mile Point: 0.450 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005055100.00 RF3 Mile Point: 2.22 Distance from RF3: 0.28 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0086

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	06/03/86-08/25/86	2 ##	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: FRHI0086

			Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00720 CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00				1	0	0.00			
	Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: FRHI0087

NPS Station ID: FRHI0087 LAT/LON: 39.821670/ -79.951671 Agency: 21PAFISH Date Created: 09/22/79
Location: MONONGAHELA TWP.-GREENE CO.-WHITLEY CREEK FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII2PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005027 RF1 Mile Point: 1.860 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005002000.99 RF3 Mile Point: 1.24 Distance from RF3: 0.07 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0087

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0088

NPS Station ID: FRHI0088
LAT/LON: 39.821115/ -79.952227
Agency: 112WRD
Date Created: 05/03/80
Location: WHITELEY CREEK NEAR MAPLETOWN, PA # 219
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072750
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005027
RF1 Mile Point: 2.000
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005002703.23
RF3 Mile Point: 7.33
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/19/81	4	22.5	19.75	24.	10.	42.917	6.551	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/19/81	4	31.5	36.	77.	4.	1119.333	33.456	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/19/81	4	1525.	2227.5	5000.	860.	3735025.	1932.621	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/19/81	4	7.8	7.6	7.8	7.	0.16	0.4	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/19/81	4	7.8	7.433	7.8	7.	0.197	0.444	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/19/81	4	0.016	0.037	0.1	0.016	0.002	0.042	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-09/04/80	3	3.6	4.367	7.	2.5	5.503	2.346	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	4	65.5	71.75	120.	36.	1432.25	37.845	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	4	4.	4.	8.	0.	13.333	3.651	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-09/04/80	3	100.	94.667	140.	44.	2325.333	48.222	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	2	0.8	0.8	1.2	0.4	0.32	0.566	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	2	1065.	1065.	1800.	330.	1080450.	1039.447	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/19/81	2	1000.	1000.	1700.	300.	980000.	989.949	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	2	330.	330.	550.	110.	96800.	311.127	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	2	56.5	56.5	99.	14.	3612.5	60.104	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	2	250.	250.	440.	60.	72200.	268.701	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	2	2.95	2.95	4.5	1.4	4.805	2.192	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/19/81	2	31.5	31.5	35.	28.	24.5	4.95	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	2	6.65	6.65	10.	3.3	22.445	4.738	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	4	12.	12.5	16.	10.	9.	3.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/19/81	4	685.	1172.5	3000.	320.	1571958.333	1253.778	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	2	0.65	0.65	1.1	0.2	0.405	0.636	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	2	5.45	5.45	8.7	2.2	21.125	4.596	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	560.	490.	710.	200.	68700.	262.107	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/19/81	4	1025.	1022.5	1400.	640.	146691.667	383.003	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/19/81	4	380.	500.	1200.	40.	303466.667	550.878	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/19/81	4	25.	42.5	120.	0.	3225.	56.789	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/19/81	4	275.	312.5	460.	240.	9958.333	99.791	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/19/81	4	280.	282.5	410.	160.	11025.	105.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	2	215.	215.	410.	20.	76050.	275.772	**	**	**	**

** - 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 time series plot

Parameter Inventory for Station: FRHI0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/19/81	4	1151.	1879.5	4620.	596.	3579099.667	1891.851	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/19/81	2	2387.	2387.	4150.	624.	6216338.	2493.259	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/19/81	4	70.4	80.6	133.	48.6	1374.113	37.069	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/19/81	3	2.26	3.137	6.28	0.87	7.893	2.81	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/19/81	4	0.07	0.085	0.2	0.	0.008	0.087	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0088

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									
01091	ZINC, SUSPENDED	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									

& - 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: FRHI0089

NPS Station ID: FRHI0089 LAT/LON: 39.860003/ -79.953337 Agency: 21PAFISH Date Created: 09/22/79
Location: CUMBERLAND TWP.-GREENE CO.-LITTLE WHITELY CREEK FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII5PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 8.20 On/Off RF1:
RF3 Index: 05020005058400.00 RF3 Mile Point: 0.62 Distance from RF3: 0.04 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0090

NPS Station ID: FRHI0090 LAT/LON: 39.750005/ -79.965559 Agency: 112WRD Date Created: 05/03/80
Location: UNNAMED TRIBUTARY NEAR BOBTOWN, PA # 212 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03071950
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003004.21 RF3 Mile Point: 4.23 Distance from RF3: 0.18 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	4	24.25	23.375	27.	18.	14.563	3.816	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	4	0.85	1.	2.	0.3	0.513	0.716	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	4	3000.	3037.5	3250.	2900.	28958.333	170.171	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/19/81	4	2.8	2.625	2.8	2.1	0.122	0.35	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/19/81	4	2.8	2.498	2.8	2.1	0.144	0.379	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/19/81	4	1584.893	3174.49	7943.282	1584.893	10107278.161	3179.195	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	2511.886	2511.886	2511.886	2511.886	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	4	545.	567.5	760.	420.	20091.667	141.745	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/19/81	2	0.065	0.065	0.09	0.04	0.001	0.035	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	2	1025.	1025.	1200.	850.	61250.	247.487	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	2	265.	265.	330.	200.	8450.	91.924	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	2	93.	93.	100.	86.	98.	9.899	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	2	33.	33.	33.	33.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/19/81	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	2	1.55	1.55	1.7	1.4	0.045	0.212	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	4	6.5	7.	9.	6.	2.	1.414	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	4	1600.	1600.	1700.	1500.	6666.667	81.65	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	2	2.7	2.7	3.4	2.	0.98	0.99	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	2	63.	63.	65.	61.	8.	2.828	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	0.	333.333	1000.	0.	333333.333	577.35	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	4	55000.	59250.	85000.	42000.	332916666.667	18246.004	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	4	54500.	59250.	85000.	43000.	324250000.	18006.943	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	4	0.	50.	200.	0.	10000.	100.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	4	5000.	5000.	5600.	4400.	246666.667	496.655	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	4	4900.	5025.	5600.	4700.	182500.	427.2	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1	690.	690.	690.	690.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	670.	670.	670.	670.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	27000.	27000.	27000.	27000.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	2	21500.	21500.	23000.	20000.	4500000.	2121.32	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	7000.	7000.	7000.	7000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/19/81	4	2555.	2585.	2860.	2370.	41233.333	203.06	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/19/81-08/19/81	1	2330.	2330.	2330.	2330.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	4	5.54	6.41	12.4	2.16	18.486	4.3	**	**	**	**

** - 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: FRHI0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	2	3.555	3.555	3.89	3.22	0.224	0.474	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/19/81	4	11.	11.4	15.2	8.4	7.92	2.814	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0090

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	3	3	1.00				1	1	1.00			
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									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01091	ZINC, SUSPENDED	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	1	1.00	1	1	1.00									
		Drinking Water	5000.	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: FRHI0091

NPS Station ID: FRHI0091 LAT/LON: 39.745837/ -79.968060 Agency: 112WRD Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 214 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03071940
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003004.21 RF3 Mile Point: 4.79 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/20/81	4	23.25	22.875	28.	17.	29.729	5.452	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/20/81	4	0.05	0.05	0.09	0.01	0.002	0.041	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/20/81	4	1365.	1620.	2600.	1150.	438466.667	662.168	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/20/81	4	7.6	7.4	8.1	6.3	0.62	0.787	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/20/81	4	7.555	6.85	8.1	6.3	1.023	1.011	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/20/81	4	0.028	0.141	0.501	0.008	0.058	0.24	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	25.119	25.119	25.119	25.119	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/20/81	4	5.45	10.175	27.	2.8	127.389	11.287	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	4	124.	114.	180.	28.	6074.667	77.94	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	4	12.	11.5	20.	2.	65.	8.062	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/20/81	4	151.5	139.25	220.	34.	9094.25	95.364	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/20/81	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	2	1030.	1030.	1400.	660.	273800.	523.259	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/20/81	2	1000.	1000.	1400.	600.	320000.	565.685	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/20/81	2	270.	270.	350.	190.	12800.	113.137	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/20/81	2	88.	88.	130.	46.	3528.	59.397	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/20/81	2	62.	62.	85.	39.	1058.	32.527	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/20/81	2	0.85	0.85	1.	0.7	0.045	0.212	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/20/81	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/20/81	2	3.5	3.5	4.7	2.3	2.88	1.697	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/20/81	4	6.	5.75	8.	3.	4.917	2.217	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/20/81	4	595.	817.5	1600.	480.	279891.667	529.048	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/20/81	2	0.5	0.5	0.7	0.3	0.08	0.283	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/20/81	2	17.	17.	19.	15.	8.	2.828	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	3	680.	760.	1500.	100.	494800.	703.42	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/20/81	4	850.	1122.5	2400.	390.	787358.333	887.332	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/20/81	4	525.	482.5	860.	20.	156825.	396.011	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/20/81	4	10.	25.	80.	0.	1433.333	37.859	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/20/81	4	515.	980.	2800.	90.	1519666.667	1232.748	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/20/81	4	580.	992.5	2800.	10.	1548291.667	1244.304	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/20/81	2	120.	120.	140.	100.	800.	28.284	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	400.	400.	400.	400.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/20/81	4	966.5	1150.	2570.	97.	1064306.	1031.652	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/20/81	2	1615.	1615.	2210.	1020.	708050.	841.457	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/20/81	4	0.14	0.133	0.24	0.01	0.012	0.11	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/20/81	3	1.3	1.643	3.5	0.13	2.928	1.711	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/20/81	4	0.25	0.225	0.4	0.	0.029	0.171	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0091

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	1	0.25	3	1	0.33				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									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									
01091	ZINC, SUSPENDED	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									

& - 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: FRHI0092

NPS Station ID: FRHI0092
LAT/LON: 39.759170/ -79.970838
Agency: 112WRD
Date Created: / /
Location: DUNKARD CREEK AT SHANNOPIN, PA.
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 10.20
On/Off RF1:
RF3 Index: 05020005005700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/68-04/08/97	24	15.5	14.313	26.	3.	52.539	7.248	4.	8.	21.375	24.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/16/96-10/16/96	1	15.5	15.5	15.5	15.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	04/30/96-04/08/97	11	740.	740.273	753.	727.	50.818	7.129	728.8	736.	744.	752.4
00058	FLOW, RATE GALLONS/MIN	12/01/70-12/01/70	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	07/02/68-07/02/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/01/75-04/08/97	22	138.5	326.409	1221.	30.	161819.491	402.268	45.6	65.25	414.	1130.
00065	STAGE, STREAM (FEET)	04/30/96-04/08/97	11	3.1	3.378	5.55	1.82	1.828	1.352	1.852	2.01	4.54	5.48
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/01/75-07/27/76	8	15.	47.888	290.	3.5	9593.244	97.945	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/02/68-12/01/70	2	6.	6.	10.	2.	32.	5.657	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-04/08/97	26	517.5	601.577	1390.	143.	93692.254	306.092	248.8	373.5	763.75	1075.
00300	OXYGEN, DISSOLVED MG/L	12/05/75-04/08/97	16	10.05	10.438	14.2	7.7	3.101	1.761	8.19	9.075	11.775	13.22
00400	PH (STANDARD UNITS)	07/02/68-04/08/97	21	7.5	7.286	7.9	3.5	0.877	0.937	6.52	7.3	7.8	7.9
00400	CONVERTED PH (STANDARD UNITS)	07/02/68-04/08/97	21	7.5	4.821	7.9	3.5	7.257	2.694	6.52	7.3	7.8	7.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/68-04/08/97	21	0.032	15.109	316.228	0.013	4760.303	68.995	0.013	0.016	0.051	0.338
00403	PH, LAB, STANDARD UNITS SU	08/19/81-04/08/97	12	7.5	7.475	7.8	7.	0.053	0.23	7.06	7.325	7.675	7.77
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-04/08/97	12	7.5	7.414	7.8	7.	0.057	0.239	7.06	7.325	7.675	7.77
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-04/08/97	12	0.032	0.039	0.1	0.016	0.001	0.024	0.017	0.021	0.048	0.089
00405	CARBON DIOXIDE (MG/L AS CO2)	12/01/70-08/19/81	5	4.9	4.66	8.6	1.1	7.393	2.719	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/02/68-08/12/96	18	46.	52.222	102.	0.	670.301	25.89	19.8	39.5	68.5	93.9
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	4	6.	6.	8.	4.	2.667	1.633	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	11/01/75-06/30/76	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	11/01/75-07/27/76	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00440	BICARBONATE ION (MG/L AS HCO3)	07/02/68-08/19/81	6	51.5	47.667	100.	0.	1109.867	33.315	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/02/68-12/01/70	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/01/75-02/27/76	4	342.5	327.5	490.	135.	26408.333	162.506	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	04/30/96-04/08/97	11	0.03	0.041	0.09	0.008	0.001	0.024	0.01	0.02	0.06	0.084
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/01/75-07/27/76	9	0.1	0.089	0.13	0.04	0.001	0.032	0.04	0.06	0.115	0.13
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/30/96-04/08/97	11	0.01	0.014	0.03	0.005	0.	0.009	0.005	0.005	0.02	0.028
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/14/76-07/27/76	7	0.03	0.029	0.048	0.01	0.	0.013	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	12/01/70-12/01/70	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/14/76-07/27/76	6	0.82	0.956	1.699	0.58	0.165	0.406	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	04/30/96-04/08/97	11 ##	0.1	0.155	0.3	0.1	0.007	0.082	0.1	0.1	0.2	0.3
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/30/96-04/08/97	11	0.2	0.255	0.8	0.1	0.047	0.216	0.1	0.1	0.4	0.72
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-04/08/97	13	0.5	1.591	15.	0.025	16.313	4.039	0.039	0.3	0.75	9.4
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/01/70-12/01/70	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/01/75-04/08/97	20	0.035	0.357	6.309	0.005	1.964	1.401	0.005	0.005	0.1	0.109
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/96-04/08/97	11 ##	0.005	0.007	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.018
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/70-04/08/97	12 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01

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

Parameter Inventory for Station: FRHI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/30/96-04/08/97	11	2.	2.236	3.9	1.4	0.639	0.799	1.42	1.6	2.9	3.74
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	04/30/96-04/08/97	11	0.4	0.627	1.9	0.2	0.234	0.484	0.2	0.4	0.7	1.72
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/02/68-08/19/81	13	185.	195.385	418.	50.	13115.423	114.523	54.	90.	272.	398.8
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/02/68-08/19/81	4	196.5	209.75	418.	28.	37465.583	193.56	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/68-04/08/97	24	49.	49.058	110.	13.	666.189	25.811	15.5	30.5	59.5	97.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/68-04/08/97	24	10.75	12.475	36.	4.3	62.836	7.927	5.2	7.05	14.	27.75
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/01/70-04/08/97	14	34.5	46.643	93.	5.	815.94	28.565	11.5	22.	70.5	90.
00931	SODIUM ADSORPTION RATIO	07/02/68-08/19/81	4	1.65	42.9	168.	0.3	6956.047	83.403	**	**	**	**
00932	SODIUM, PERCENT	12/01/70-08/19/81	3	33.	29.333	38.	17.	120.333	10.97	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/01/70-04/08/97	14	2.2	2.279	4.2	1.3	0.714	0.845	1.3	1.65	2.6	3.9
00940	CHLORIDE,TOTAL IN WATER MG/L	07/02/68-04/08/97	25	16.	18.24	36.	7.	83.19	9.121	8.2	10.	24.	34.4
00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/68-04/08/97	25	204.	199.48	704.	14.	20239.427	142.265	52.2	90.5	235.	370.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/01/70-04/08/97	13	0.1	0.15	0.4	0.05	0.008	0.091	0.07	0.1	0.2	0.32
00955	SILICA, DISSOLVED (MG/L AS SI02)	12/01/70-04/08/97	14	6.65	6.421	15.	1.2	13.205	3.634	1.25	3.525	7.4	13.
01027	CADMIUM, TOTAL (UG/L AS CD)	07/27/76-07/27/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/27/76-07/27/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/27/76-07/27/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	1100.	1026.667	1300.	680.	100133.333	316.439	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/01/75-08/19/81	13	2030.	3520.	19000.	550.	22868650.	4782.118	614.	1495.	3400.	13160.
01046	IRON, DISSOLVED (UG/L AS FE)	12/01/70-04/08/97	16	30.	231.75	2800.	8.	483780.867	695.544	8.	11.25	51.	1197.
01051	LEAD, TOTAL (UG/L AS PB)	07/27/76-07/27/76	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	4	25.	45.	130.	0.	3766.667	61.373	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	11/01/75-08/19/81	13	320.	380.769	620.	210.	21574.359	146.882	218.	280.	520.	620.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/01/70-04/08/97	16	76.	135.188	630.	26.	25738.696	160.433	28.8	51.	160.	455.
01067	NICKEL, TOTAL (UG/L AS NI)	07/27/76-07/27/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/19/81-08/19/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/27/76-08/19/81	2	90.	90.	140.	40.	5000.	70.711	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/01/75-08/19/81	10	1210.	2101.	10500.	560.	8790032.222	2964.799	605.	1010.	1525.	9610.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-04/08/97	13	84.	186.308	1400.	34.	134777.397	367.12	34.8	45.	138.	904.
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	500.	500.	500.	500.	0.	0.	**	**	**	**
34790	SURFACTANTS, AS CTAS, WATER MG/L	10/10/96-10/10/96	1	9.	9.	9.	9.	0.	0.	**	**	**	**
34795	ANTIMONY, BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
34800	ARSENIC, BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	14.	14.	14.	14.	0.	0.	**	**	**	**
34805	BARIUM, BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	560.	560.	560.	560.	0.	0.	**	**	**	**
34810	BERYLLIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	4.	4.	4.	4.	0.	0.	**	**	**	**
34816	BISMUTH,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34825	CADMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
34830	CALCIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34835	CERIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	110.	110.	110.	110.	0.	0.	**	**	**	**
34840	COBALT,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	88.	88.	88.	88.	0.	0.	**	**	**	**
34845	CHROMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	38.	38.	38.	38.	0.	0.	**	**	**	**
34850	COPPER,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	37.	37.	37.	37.	0.	0.	**	**	**	**
34855	EUROPIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34860	GALLIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
34870	GOLD,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
34875	HOLMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
34880	IRON,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	6.	6.	6.	6.	0.	0.	**	**	**	**
34885	LANTHANUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	58.	58.	58.	58.	0.	0.	**	**	**	**
34890	LEAD,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	33.	33.	33.	33.	0.	0.	**	**	**	**
34895	LITHIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	60.	60.	60.	60.	0.	0.	**	**	**	**
34900	MAGNESIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
34905	MANGANESE,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
34910	MERCURY,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34915	MOLYBDENUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
34920	NEODYMIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	63.	63.	63.	63.	0.	0.	**	**	**	**
34925	NICKEL,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	55.	55.	55.	55.	0.	0.	**	**	**	**
34930	NIOBIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	17.	17.	17.	17.	0.	0.	**	**	**	**
34935	PHOSPHORUS,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34940	POTASSIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
34945	SCANDIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	15.	15.	15.	15.	0.	0.	**	**	**	**
34950	SELENIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34955	SILVER,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
34960	SODIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
34965	STRONTIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	150.	150.	150.	150.	0.	0.	**	**	**	**
34970	SULFUR,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
34975	TANTALUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
34980	THORIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	15.	15.	15.	15.	0.	0.	**	**	**	**
34985	TIN,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
35000	URANIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	4.84	4.84	4.84	4.84	0.	0.	**	**	**	**
35005	VANADIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	100.	100.	100.	100.	0.	0.	**	**	**	**
35010	YTTRIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	38.	38.	38.	38.	0.	0.	**	**	**	**
35015	YTTERBIUM,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	4.	4.	4.	4.	0.	0.	**	**	**	**
35020	ZINC,BEDLOAD SED,WET SIEVE DIAM	10/10/96-10/10/96	1	190.	190.	190.	190.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	11/01/75-12/05/75	2 ##	0.045	0.045	0.05	0.04	0.	0.007	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/30/96-04/08/97	11	102.	117.364	218.	58.	2894.455	53.8	58.4	84.	180.	212.4
49266	INVALID PARAMETER	10/10/96-10/10/96	1	2.41	2.41	2.41	2.41	0.	0.	**	**	**	**
49267	INVALID PARAMETER	10/10/96-10/10/96	1	2.47	2.47	2.47	2.47	0.	0.	**	**	**	**
49269	INVALID PARAMETER	10/10/96-10/10/96	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
49270	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
49271	INVALID PARAMETER	10/10/96-10/10/96	1	18.	18.	18.	18.	0.	0.	**	**	**	**
49272	INVALID PARAMETER	10/10/96-10/10/96	1	18.	18.	18.	18.	0.	0.	**	**	**	**
49274	INVALID PARAMETER	10/10/96-10/10/96	1	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**
49275	INVALID PARAMETER	10/10/96-10/10/96	1	76.	76.	76.	76.	0.	0.	**	**	**	**
49276	INVALID PARAMETER	10/10/96-10/10/96	1	71.	71.	71.	71.	0.	0.	**	**	**	**
49277	INVALID PARAMETER	10/10/96-10/10/96	1	67.	67.	67.	67.	0.	0.	**	**	**	**
49278	INVALID PARAMETER	10/10/96-10/10/96	1	96.	96.	96.	96.	0.	0.	**	**	**	**
49279	INVALID PARAMETER	10/10/96-10/10/96	1	79.	79.	79.	79.	0.	0.	**	**	**	**
49280	INVALID PARAMETER	10/10/96-10/10/96	1	79.	79.	79.	79.	0.	0.	**	**	**	**
49316	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49317	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49318	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49319	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49320	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49321	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49322	INVALID PARAMETER	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
49324	INVALID PARAMETER	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
49325	INVALID PARAMETER	10/10/96-10/10/96	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
49326	INVALID PARAMETER	10/10/96-10/10/96	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
49327	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49328	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49329	INVALID PARAMETER	10/10/96-10/10/96	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
49330	INVALID PARAMETER	10/10/96-10/10/96	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
49331	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49332	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49335	INVALID PARAMETER	10/10/96-10/10/96	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
49338	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49339	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49341	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49342	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49343	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49344	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49345	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49346	INVALID PARAMETER	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
49347	INVALID PARAMETER	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
49348	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49349	INVALID PARAMETER	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
49350	INVALID PARAMETER	10/10/96-10/10/96	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
49351	INVALID PARAMETER	10/10/96-10/10/96	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
49381	INVALID PARAMETER	10/10/96-10/10/96	1	53.	53.	53.	53.	0.	0.	**	**	**	**
49382	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49383	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49384	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49387	INVALID PARAMETER	10/10/96-10/10/96	1	200.	200.	200.	200.	0.	0.	**	**	**	**
49388	INVALID PARAMETER	10/10/96-10/10/96	1	71.	71.	71.	71.	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: FRHI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
49389	INVALID PARAMETER	10/10/96-10/10/96	1	160.	160.	160.	160.	0.	0.	**	**	**	**
49390	INVALID PARAMETER	10/10/96-10/10/96	1	87.	87.	87.	87.	0.	0.	**	**	**	**
49391	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49392	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49393	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49394	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49395	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49396	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49397	INVALID PARAMETER	10/10/96-10/10/96	1	100.	100.	100.	100.	0.	0.	**	**	**	**
49400	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49401	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49402	INVALID PARAMETER	10/10/96-10/10/96	1	200.	200.	200.	200.	0.	0.	**	**	**	**
49403	INVALID PARAMETER	10/10/96-10/10/96	1	66.	66.	66.	66.	0.	0.	**	**	**	**
49404	INVALID PARAMETER	10/10/96-10/10/96	1	190.	190.	190.	190.	0.	0.	**	**	**	**
49405	INVALID PARAMETER	10/10/96-10/10/96	1	60.	60.	60.	60.	0.	0.	**	**	**	**
49406	INVALID PARAMETER	10/10/96-10/10/96	1	160.	160.	160.	160.	0.	0.	**	**	**	**
49407	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49408	INVALID PARAMETER	10/10/96-10/10/96	1	92.	92.	92.	92.	0.	0.	**	**	**	**
49409	INVALID PARAMETER	10/10/96-10/10/96	1	330.	330.	330.	330.	0.	0.	**	**	**	**
49410	INVALID PARAMETER	10/10/96-10/10/96	1	140.	140.	140.	140.	0.	0.	**	**	**	**
49411	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49413	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49421	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49422	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49424	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49426	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49427	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49429	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49430	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49431	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49433	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49436	INVALID PARAMETER	10/10/96-10/10/96	1	140.	140.	140.	140.	0.	0.	**	**	**	**
49437	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49438	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49439	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49441	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49442	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49443	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49444	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49446	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49450	INVALID PARAMETER	10/10/96-10/10/96	1	170.	170.	170.	170.	0.	0.	**	**	**	**
49454	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49455	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49458	INVALID PARAMETER	10/10/96-10/10/96	1	140.	140.	140.	140.	0.	0.	**	**	**	**
49459	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49460	INVALID PARAMETER	10/10/96-10/10/96	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
49466	INVALID PARAMETER	10/10/96-10/10/96	1	170.	170.	170.	170.	0.	0.	**	**	**	**
49467	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49468	INVALID PARAMETER	10/10/96-10/10/96	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
49490	INVALID PARAMETER	10/10/96-10/10/96	1	5800.	5800.	5800.	5800.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/01/70-04/08/97	15	317.	361.867	812.	97.	38593.552	196.452	137.2	194.	500.	693.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/01/70-08/19/81	3	243.	374.667	786.	95.	132372.333	363.83	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	4	196.	296.2	727.	65.8	86443.627	294.013	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/01/70-08/19/81	4	0.595	0.605	1.1	0.13	0.197	0.444	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	04/30/96-09/18/96	6	95.5	87.	99.	48.	386.4	19.657	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	04/30/96-04/08/97	11	2.	3.055	8.	0.6	4.073	2.018	0.88	2.	4.	7.4
71825	ACIDITY, TOTAL (MG/L AS H)	07/02/68-08/19/81	5	0.1	0.532	2.3	0.06	0.977	0.988	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/02/68-12/01/70	2	9.1	9.1	18.	0.2	158.42	12.587	**	**	**	**
72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	12/01/70-12/01/70	1	71.	71.	71.	71.	0.	0.	**	**	**	**
72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	12/01/70-12/01/70	1	53.	53.	53.	53.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/30/96-09/18/96	6	18.	27.667	68.	6.	611.067	24.72	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	8	1	0.13	1	0	0.00	3	1	0.33	4	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	16	0	0.00	4	0	0.00	5	0	0.00	7	0	0.00			
00400	PH	Other-Hi Lim.	9.	21	0	0.00	8	0	0.00	6	0	0.00	7	0	0.00			
		Other-Lo Lim.	6.5	21	2	0.10	8	1	0.13	6	1	0.17	7	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	12	0	0.00	5	0	0.00	3	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	12	0	0.00	5	0	0.00	3	0	0.00	4	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	11	0	0.00	4	0	0.00	3	0	0.00	4	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	7	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	13	1	0.08	6	1	0.17	3	0	0.00	4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	25	0	0.00	9	0	0.00	8	0	0.00	8	0	0.00			
		Drinking Water	250.	25	0	0.00	9	0	0.00	8	0	0.00	8	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	25	5	0.20	9	4	0.44	8	1	0.13	8	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	13	0	0.00	6	0	0.00	4	0	0.00	3	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.	0 &	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									
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									
01091	ZINC, SUSPENDED	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.	2	1	0.50	2	1	0.50									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (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

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/01/75-04/08/97	8	100.	367.125	1221.	30.	236588.125	486.403	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-04/08/97	9	775.	801.667	1390.	289.	122660.25	350.229	289.	560.	1062.5	1390.

** - Less than 9 observations ## - Computed 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 3/14 - Station FRHI0092

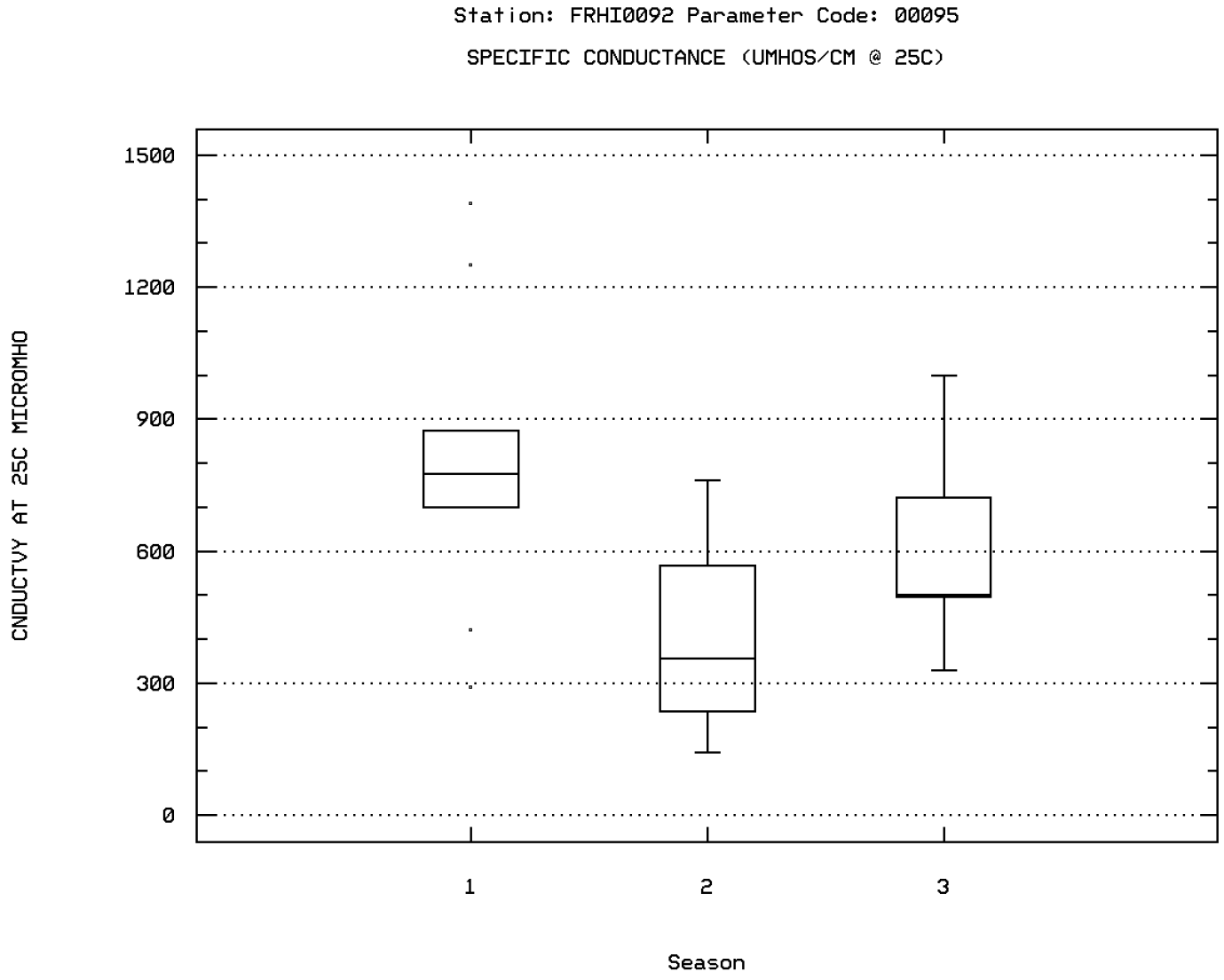
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/01/75-04/08/97	5	224.	493.6	1160.	66.	267042.8	516.762	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-04/08/97	8	355.5	402.75	760.	143.	48405.071	220.012	**	**	**	**

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/01/75-04/08/97	9	169.	197.333	750.	39.	46368.75	215.334	39.	74.5	190.5	750.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/68-04/08/97	9	500.	578.222	1000.	330.	42587.444	206.367	330.	442.5	727.	1000.

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



DUNKARD CREEK AT SHANNOPIN, PA.

Station Inventory for Station: FRHI0093

NPS Station ID: FRHI0093 LAT/LON: 39.765004/ -79.971671 Agency: 21PAFISH Date Created: 09/22/79
Location: DUNKARD TWP.-GREENE CO.-DUNKARD CREEK FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/MUN/INTAKE/AMBNT/STREAM/SUPPLY STORET Station ID(s): PWSIII7PW2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005030 RF1 Mile Point: 2.500 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005003000.03 RF3 Mile Point: 0.03 Distance from RF3: 0.06 On/Off RF3:
Description:
PCBS IN PENNSYLVANIA WATERS - 1974-1977 - DEPARTMENT OF ENVIRONMENTAL RESOURCES - COMMONWEALTH OF PENNSYLVANIA -

Parameter Inventory for Station: FRHI0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	09/15/75-09/15/75	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

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

Station Inventory for Station: FRHI0094

NPS Station ID: FRHI0094
LAT/LON: 39.748059/ -79.972226
Agency: 112WRD
Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 213
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071945
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005030
RF1 Mile Point: 4.340
Distance from RF1: 6.20
On/Off RF1: OFF
RF3 Index: 05020005055100.00
RF3 Mile Point: 0.25
Distance from RF3: 0.33
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/20/81	4	22.25	22.75	29.	17.5	31.75	5.635	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/20/81	4	0.115	0.11	0.2	0.01	0.011	0.104	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/20/81	4	1245.	1402.5	2200.	920.	312158.333	558.711	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/20/81	4	3.55	3.475	4.1	2.7	0.376	0.613	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/20/81	4	3.482	3.165	4.1	2.7	0.504	0.71	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/20/81	4	329.838	683.593	1995.262	79.433	798163.883	893.4	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	1995.262	1995.262	1995.262	1995.262	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	4	90.	199.5	560.	58.	58587.667	242.049	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/20/81	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	2	525.	525.	620.	430.	18050.	134.35	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/20/81	2	110.	110.	110.	110.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/20/81	2	60.	60.	83.	37.	1058.	32.527	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/20/81	2	24.	24.	33.	15.	162.	12.728	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/20/81	2	0.5	0.5	0.7	0.3	0.08	0.283	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/20/81	2	9.5	9.5	14.	5.	40.5	6.364	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/20/81	2	4.	4.	4.2	3.8	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/20/81	4	10.5	11.	18.	5.	32.667	5.715	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/20/81	4	550.	632.5	1000.	430.	64291.667	253.558	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/20/81	2	0.6	0.6	0.7	0.5	0.02	0.141	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/20/81	2	51.	51.	84.	18.	2178.	46.669	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/20/81	3	3100.	19166.667	52000.	2400.	808643333.333	28436.655	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/20/81	4	2150.	17076.25	64000.	5.	979658922.917	31299.504	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/20/81	3	0.	233.333	700.	0.	163333.333	404.145	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/20/81	3	6100.	5733.333	8900.	2200.	11323333.333	3365.016	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/20/81	4	7200.	14125.	36000.	6100.	213609166.667	14615.374	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1	850.	850.	850.	850.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1	340.	340.	340.	340.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	350.	350.	350.	350.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/20/81	2	13750.	13750.	22000.	5500.	136125000.	11667.262	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/20/81	4	851.	1030.75	1700.	721.	203236.917	450.818	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/20/81	4	0.21	0.213	0.38	0.05	0.031	0.177	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/20/81	2	1.75	1.75	2.31	1.19	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 time series plot

Parameter Inventory for Station: FRHI0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/20/81	4	1.8	4.	11.2	1.2	23.36	4.833	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	3	3	1.00				1	1	1.00			
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									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	3	3	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01091	ZINC, SUSPENDED	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	1	1.00	1	1	1.00									
		Drinking Water	5000.	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: FRHI0095

NPS Station ID: FRHI0095 LAT/LON: 39.758337/ -79.972226 Agency: 1114ENF1 Date Created: / /
Location: DUNKARD CREEK AT SHANNOPIN FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 410910
RMI-Indexes: 1021500 007720 21680 1840 Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 087.20 003.55
HUC: 05020005 Depth of Water: 999 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020005030 RF1 Mile Point: 3.400 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020003000100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.02 On/Off RF3:
Description:
STATION ON DUNKARD CREEK AT SHANNOPIN JUST US OF THE BRIDGE. 1963 STUDY BY A.D.SIDIO, FIELD WORK BY CINN. & WHEELING FIELD STATION,
MASONTOWN, PA. 15 MIN QUAD MAP 3945300 07958200

Parameter Inventory for Station: FRHI0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/63-09/06/63	14	21.	21.036	24.	16.	3.326	1.824	18.	20.375	22.	23.5
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	08/21/63-08/28/63	5	65.	64.68	73.4	55.	55.012	7.417	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/19/63-09/06/63	14	5.	9.571	36.	4.	114.11	10.682	4.	4.	8.	34.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/63-08/30/63	10	3500.	3420.	3670.	3100.	50755.556	225.29	3105.	3187.5	3607.5	3666.
00300	OXYGEN, DISSOLVED MG/L	08/19/63-08/30/63	10	8.45	8.93	10.5	7.7	1.276	1.129	7.71	7.875	10.2	10.47
00400	PH (STANDARD UNITS)	08/27/63-08/30/63	4	3.1	3.175	3.5	3.	0.056	0.236	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/63-08/30/63	4	3.089	3.133	3.5	3.	0.058	0.241	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/63-08/30/63	4	815.479	736.796	1000.	316.228	108877.384	329.966	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/63-08/30/63	10	2.8	2.76	2.8	2.7	0.003	0.052	2.7	2.7	2.8	2.8
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/63-08/30/63	10	2.8	2.757	2.8	2.7	0.003	0.052	2.7	2.7	2.8	2.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/63-08/30/63	10	1584.893	1749.041	1995.262	1584.893	44907.418	211.914	1584.893	1584.893	1995.262	1995.262
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/19/63-08/30/63	10	435.	440.5	520.	365.	2596.944	50.96	367.	400.	485.	518.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/19/63-08/30/63	10	750.	742.	850.	610.	8973.333	94.728	615.	660.	830.	848.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/63-08/30/63	10	1043.	1026.2	1118.	912.	5813.733	76.248	913.	946.	1101.	1116.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	08/19/63-08/30/63	10	855.	858.	1060.	700.	20640.	143.666	701.	717.5	980.	1055.

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

EPA Water Quality Criteria Analysis for Station: FRHI0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	10	0	0.00									
00400	PH	Other-Hi Lim.	9.	4	0	0.00	4	0	0.00									
		Other-Lo Lim.	6.5	4	4	1.00	4	4	1.00									
00403	PH, LAB	Other-Hi Lim.	9.	10	0	0.00	10	0	0.00									
		Other-Lo Lim.	6.5	10	10	1.00	10	10	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: FRHI0096

NPS Station ID: FRHI0096 LAT/LON: 39.760559/ -79.973337 Agency: 21PA Date Created: 04/19/77
Location: DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF SR2011) FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM/BIO STORET Station ID(s): WQN0714 /03072000 /PFBC8-037
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: MONONGAHELA RIVER Elevation: 0 Water Body Id:
Minor Basin: DUNKARD CREEK ECO Region:
RF1 Index: 05020005030 RF1 Mile Point: 2.610 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 05020005001605.81 RF3 Mile Point: 6.96 Distance from RF3: 0.04 On/Off RF3:
Description:
DUNKARD CREEK AT ONE LANE BRIDGE ON LR30130 NEAR BOBTOWN, DUNKARD TOWN- SHIP, GREENE COUNTY. 400 METERS DOWNSTREAM OF USGS GAUGING STATION AT SHANNOPIN, PA., 5.2 KM FROM MOUTH. COMPOSITE SAMPLE AT ONE-THIRD POINTS. MONTHLY CHEMICAL. NO BIOLOGICAL. SPECIAL PARAMETERS: MANGANESE AND ALUMINUM.

Parameter Inventory for Station: FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	241	12.	12.666	28.5	0.	67.209	8.198	1.7	5.3	20.	24.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	243	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	382	98.	256.552	5990.	2.	320366.495	566.009	9.	23.75	259.75	603.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	217	122.	318.363	8600.	0.7	578919.744	760.868	8.	19.	309.5	774.2
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	186	2.2	2.628	10.68	1.03	2.465	1.57	1.197	1.4	3.26	4.75
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	66	25.	49.883	480.	2.	6429.201	80.182	7.77	15.	40.	105.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	49	11.	17.294	150.	1.5	475.742	21.812	4.	6.4	20.	35.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-03/27/74	43	10.	22.558	140.	0.	807.586	28.418	0.	5.	30.	63.
00086	ODOR (THRESHOLD NUMBER AT 60 DEG C)	01/04/72-01/04/72	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	104	425.	761.538	3600.	140.	541624.795	735.952	180.	242.5	1250.	1825.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	257	606.	958.926	4878.	120.	658212.452	811.303	294.6	390.	1402.	2100.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	208	9.9	9.633	14.4	1.4	5.966	2.443	6.77	8.	11.575	12.5
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-04/03/72	40	1.55	2.325	25.	0.	15.169	3.895	0.	0.625	3.	3.77
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	240	7.	6.664	8.3	2.8	1.335	1.156	4.82	6.5	7.4	7.6
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	240	7.	4.309	8.3	2.8	6.902	2.627	4.82	6.5	7.4	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	240	0.1	49.04	1584.893	0.005	49692.986	222.919	0.025	0.04	0.316	15.264
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	343	6.8	6.268	7.9	2.4	1.876	1.37	3.6	6.1	7.1	7.4
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	343	6.8	3.861	7.9	2.4	7.682	2.772	3.6	6.1	7.1	7.4
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	343	0.158	137.57	3981.072	0.013	232151.633	481.821	0.04	0.079	0.794	251.189
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	312	50.	47.827	118.	0.	711.546	26.675	8.	30.25	66.	80.
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-09/26/85	108	0.	46.009	590.	0.	10463.392	102.291	0.	0.	25.75	198.6
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	106	14.5	156.292	1600.	0.	92930.952	304.846	0.	0.	212.	503.2
00500	RESIDUE, TOTAL (MG/L)	06/19/62-04/03/72	42	845.	1281.357	4310.	158.	1263738.284	1124.161	261.	429.5	2129.5	2737.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	217	434.	771.728	4274.	76.	528356.717	726.882	196.8	267.	1133.	1772.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	138	15.	32.42	555.	1.	3432.771	58.59	1.9	6.	40.	75.5
00556	OIL & GREASE (FREON EXTR.-GRAV METH) TOT,REC,MG/L	07/01/80-07/01/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	261	0.05	0.071	0.5	0.003	0.004	0.062	0.02	0.03	0.1	0.13
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	260	0.004	0.008	0.075	0.001	0.	0.01	0.001	0.002	0.01	0.016
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	259	0.34	0.414	1.7	0.02	0.114	0.338	0.06	0.13	0.6	0.87
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/31/67-04/08/71	18	0.005	0.022	0.11	0.	0.001	0.033	0.	0.	0.033	0.083
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	259	0.04	0.075	6.31	0.01	0.156	0.395	0.01	0.02	0.06	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 time series plot

Parameter Inventory for Station: FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	115	2.2	2.343	7.2	1.3	0.551	0.742	1.66	1.9	2.6	3.14
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	304	190.5	301.773	1840.	50.	67638.275	260.074	96.	128.	395.75	644.5
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/02/72-12/13/77	29	57.6	70.493	199.	15.	2285.35	47.805	20.8	37.5	90.	160.6
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	117	54.7	90.797	1149.	3.4	14219.847	119.247	25.32	36.	117.45	186.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/02/72-12/13/77	29	17.	21.483	67.2	5.	215.009	14.663	7.2	9.75	31.25	37.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	117	13.8	22.285	263.	0.1	790.904	28.123	6.16	9.	28.75	51.7
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	187	24.	36.183	350.	0.	1488.706	38.584	9.	15.	44.	80.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	341	230.	469.487	4000.	5.	292399.815	540.74	87.2	130.5	627.	1248.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/16/68-10/01/69	4	0.1	0.1	0.2	0.	0.013	0.115	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/05/73-03/19/80	2	0.14	0.14	0.21	0.07	0.01	0.099	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/10/84-08/14/86	3 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/26/72-08/17/87	12	2.	2.742	8.	0.5	5.919	2.433	0.5	0.6	4.5	7.4
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/26/72-08/17/87	12 ##	7.5	12.5	60.	2.	308.636	17.568	2.	2.	10.	52.5
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	128 ##	5.	12.719	240.	5.	501.731	22.399	5.	5.	15.	25.
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	344	1780.	9811.142	200000.	14.	653031802.56	25554.487	699.	1025.	5460.	22050.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	128 ##	2.	3.258	50.	0.5	39.634	6.296	0.5	2.	2.	5.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	298	320.	683.295	9000.	0.	1298806.047	1139.652	128.	177.25	688.75	1313.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	128 ##	12.5	33.633	330.	12.5	1611.561	40.144	12.5	12.5	42.	74.6
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	128	26.	50.188	620.	5.	6556.264	80.971	5.	12.25	58.75	102.1
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	307	1010.	4208.085	208000.	1.	266066626.888	16311.549	440.8	640.	1800.	5920.
01501	ALPHA, TOTAL	04/25/67-02/28/83	18	1.	1.944	5.	1.	1.791	1.338	1.	1.	3.	4.1
03501	BETA, TOTAL	04/25/67-02/28/83	18	3.5	4.75	20.	1.5	17.537	4.188	1.95	3.	5.	10.1
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	02/28/83-02/28/83	1 ##	152.5	152.5	152.5	152.5	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	33	32.	1760.197	28500.	0.	33142247.812	5756.93	0.	0.	345.	4097.2
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	33	1.505	1.445	4.455	0.	2.032	1.425	0.	0.	2.512	3.555
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			27.838								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	167	120.	684.237	20000.	5.	4476472.192	2115.768	10.	25.	460.	1720.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	167	2.079	2.094	4.301	0.699	0.662	0.813	1.	1.398	2.663	3.235
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			124.279								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/10/83-05/10/83	1	0.	0.	0.	0.	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/23/89-09/20/94	2 ##	0.004	0.004	0.005	0.003	0.	0.002	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/23/89-09/20/94	2 ##	0.004	0.004	0.005	0.003	0.	0.002	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/23/89-09/20/94	2 ##	0.004	0.004	0.005	0.003	0.	0.002	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-12/05/75	51	0.	0.044	0.75	0.	0.012	0.11	0.	0.	0.05	0.1
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.006	0.006	0.01	0.003	0.	0.005	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.038	0.038	0.066	0.01	0.002	0.04	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/23/89-09/20/94	2 ##	0.004	0.004	0.005	0.003	0.	0.002	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	10/23/89-09/20/94	2	0.8	0.8	1.1	0.5	0.18	0.424	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	10/23/89-09/20/94	2 ##	0.113	0.113	0.125	0.1	0.	0.018	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/23/89-09/20/94	2 ##	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
46002	PHENOLS,DIRECT PHOTOMETRIC,NO DISTILLATION (UG/L)	05/18/66-05/18/66	1	0.	0.	0.	0.	0.	0.	**	**	**	**
46471	CHLORDENE, WET WEIGHT, FISH TISSUE MG/KG	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	03/14/84-11/13/84	3	0.	0.	0.	0.	0.	0.	**	**	**	**
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	09/20/94-09/20/94	1	79.	79.	79.	79.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	01/04/72-01/04/72	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	118	0.	3.661	136.	0.	245.645	15.673	0.	0.	0.	3.2
71900	MERCURY, TOTAL (UG/L AS HG)	09/26/72-08/14/86	5 ##	1.	1.4	2.5	0.5	1.05	1.025	**	**	**	**
71918	ARSENIC,TOTAL IN FISH,DRY WEIGHT BASIS	10/23/89-10/23/89	1 ##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/20/94-09/20/94	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
71932	ZINC,TOTAL IN FISH,DRY WEIGHT BASIS	10/23/89-10/23/89	1	15.9	15.9	15.9	15.9	0.	0.	**	**	**	**
71934	LEAD TOTAL IN FISH DRY WEIGHT BASIS	10/23/89-10/23/89	1	0.186	0.186	0.186	0.186	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/20/94-09/20/94	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/20/94-09/20/94	1	0.86	0.86	0.86	0.86	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: FRHI0096

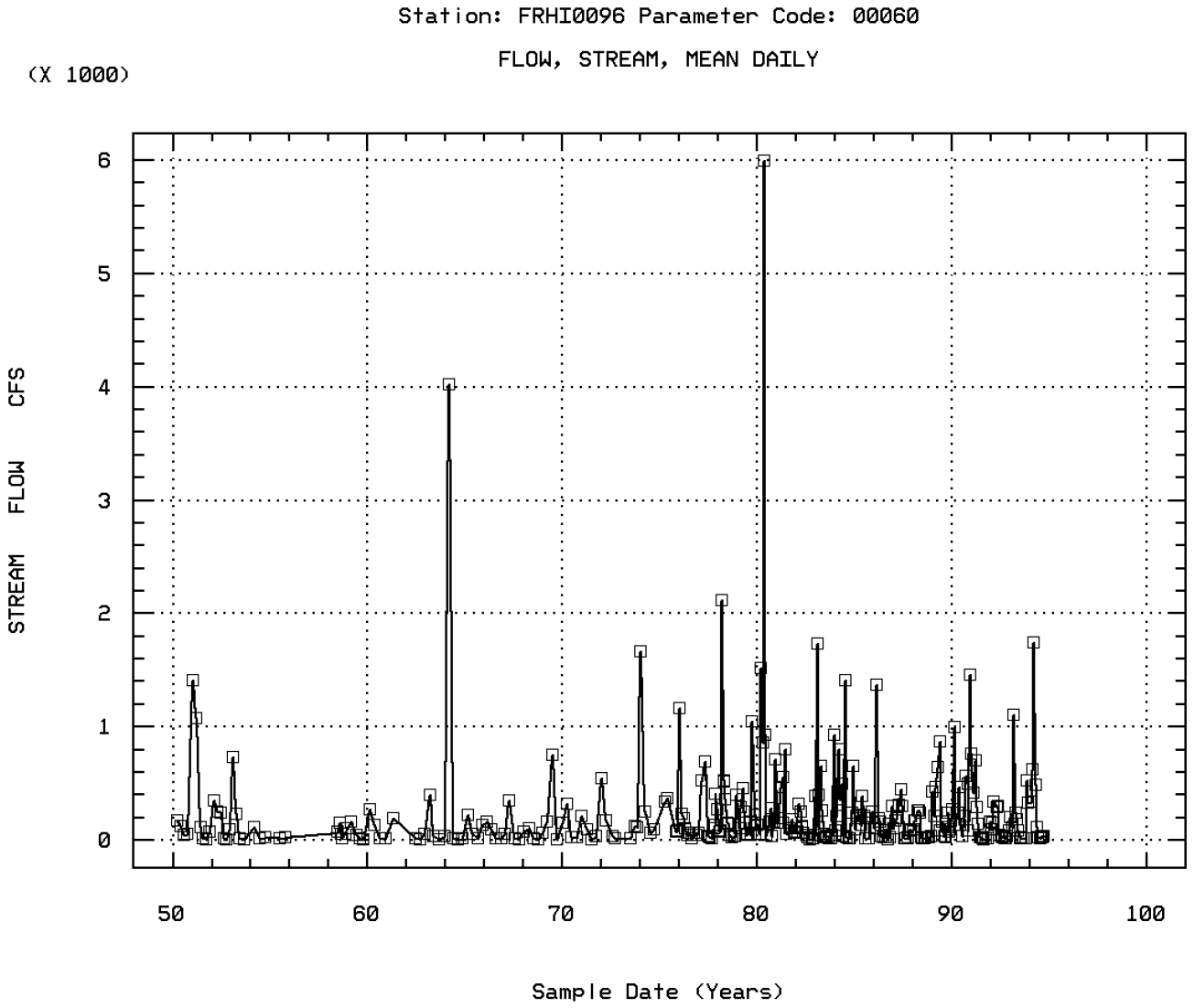
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/20/94-09/20/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/20/94-09/20/94	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
71941	CADMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	10/23/89-10/23/89	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71942	COPPER,TOTAL IN FISH-DRY WEIGHT BASIS	10/23/89-10/23/89	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
71943	CHROMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	10/23/89-10/23/89	1	0.467	0.467	0.467	0.467	0.	0.	**	**	**	**
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/23/89-09/20/94	2	3.	3.	5.	1.	8.	2.828	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/23/89-09/20/94	2 ##	0.038	0.038	0.05	0.025	0.	0.018	**	**	**	**
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
81822	KEPONE IN FISH TISSUE WET WEIGHT MG/KG	09/20/94-09/20/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/23/89-09/20/94	2 ##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	67	12.4	29.504	460.	0.5	6042.918	77.736	2.8	5.9	28.	46.2
82550	OSMOTIC PRESSURE,TOTAL,UNF WHL WTR,MILLIOSMOLES/KG	06/08/81-09/17/81	3	10.6	9.433	15.	2.7	38.843	6.232	**	**	**	**

** - 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 time series plot

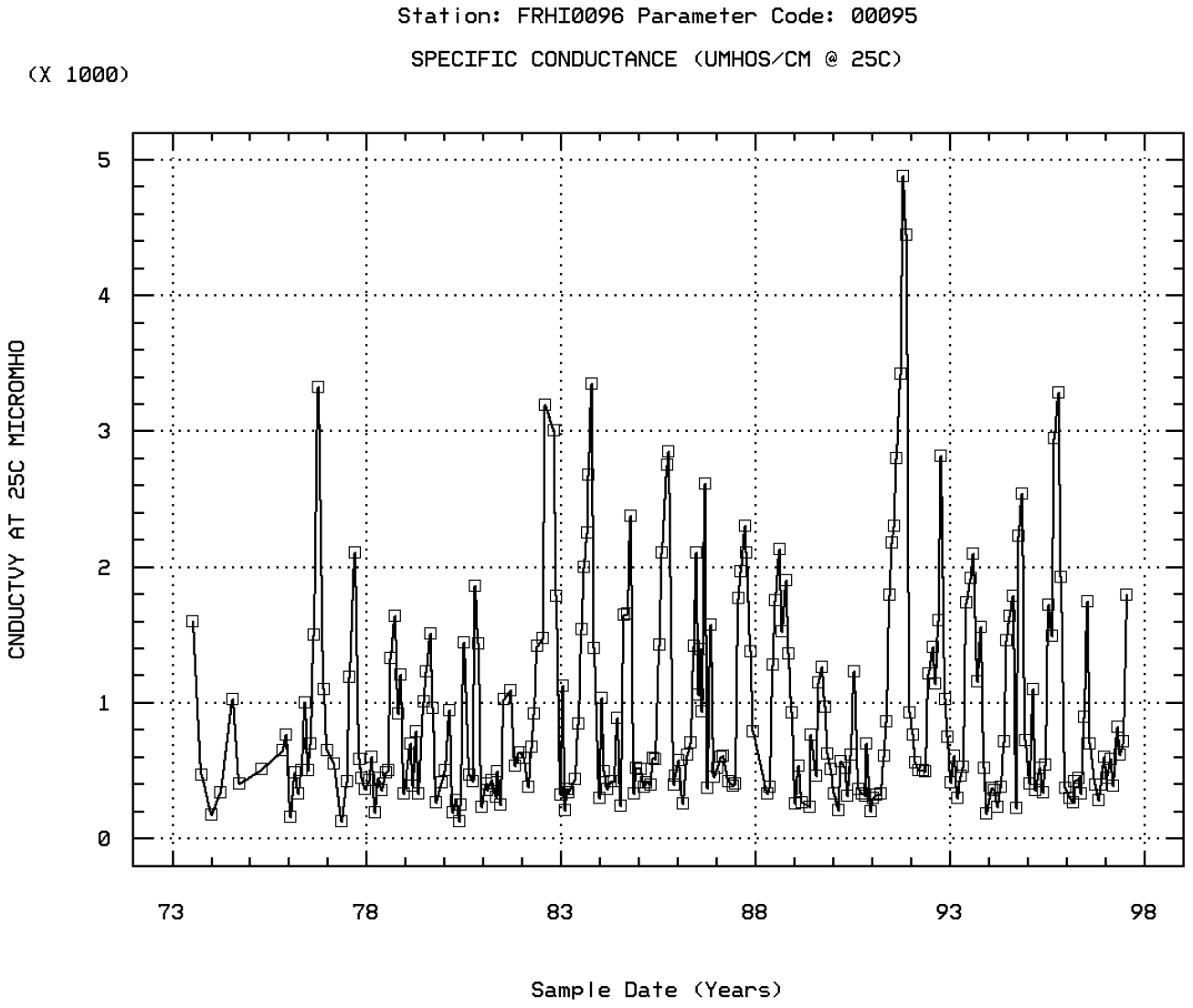
EPA Water Quality Criteria Analysis for Station: FRHI0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	66	14	0.21	25	2	0.08	21	6	0.29	20	6	0.30			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	49	1	0.02	15	0	0.00	17	0	0.00	17	1	0.06			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	208	7	0.03	76	4	0.05	74	0	0.00	58	3	0.05			
00400	PH	Other-Hi Lim.	9.	240	0	0.00	87	0	0.00	87	0	0.00	66	0	0.00			
		Other-Lo Lim.	6.5	240	65	0.27	87	30	0.34	87	16	0.18	66	19	0.29			
00403	PH, LAB	Other-Hi Lim.	9.	343	0	0.00	123	0	0.00	123	0	0.00	97	0	0.00			
		Other-Lo Lim.	6.5	343	121	0.35	123	60	0.49	123	30	0.24	97	31	0.32			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	260	0	0.00	89	0	0.00	99	0	0.00	72	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	259	0	0.00	89	0	0.00	98	0	0.00	72	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	187	0	0.00	67	0	0.00	68	0	0.00	52	0	0.00			
		Drinking Water	250.	187	1	0.01	67	1	0.01	68	0	0.00	52	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	341	158	0.46	122	98	0.80	123	33	0.27	96	27	0.28			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	0	0.00	2	0	0.00	2	0	0.00						
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	12	3	0.25	11	3	0.27	1	0	0.00						
		Drinking Water	5.	12	3	0.25	11	3	0.27	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	12	0	0.00	11	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	123 &	17	0.14	44	11	0.25	47	2	0.04	32	4	0.13			
		Drinking Water	1300.	128	0	0.00	49	0	0.00	47	0	0.00	32	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	128	0	0.00	49	0	0.00	47	0	0.00	32	0	0.00			
		Drinking Water	15.	124 &	2	0.02	45	2	0.04	47	0	0.00	32	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	128	0	0.00	49	0	0.00	47	0	0.00	32	0	0.00			
		Drinking Water	100.	128	4	0.03	49	4	0.08	47	0	0.00	32	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	128	8	0.06	49	8	0.16	47	0	0.00	32	0	0.00			
		Drinking Water	5000.	128	0	0.00	49	0	0.00	47	0	0.00	32	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	33	5	0.15	12	2	0.17	12	1	0.08	9	2	0.22			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	167	73	0.44	59	20	0.34	58	21	0.36	50	32	0.64			
50060	CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	3	0	0.00				2	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3 &	0	0.00	3	0	0.00									
		Drinking Water	2.	3 &	0	0.00	3	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	67	4	0.06	25	2	0.08	27	2	0.07	15	0	0.00			

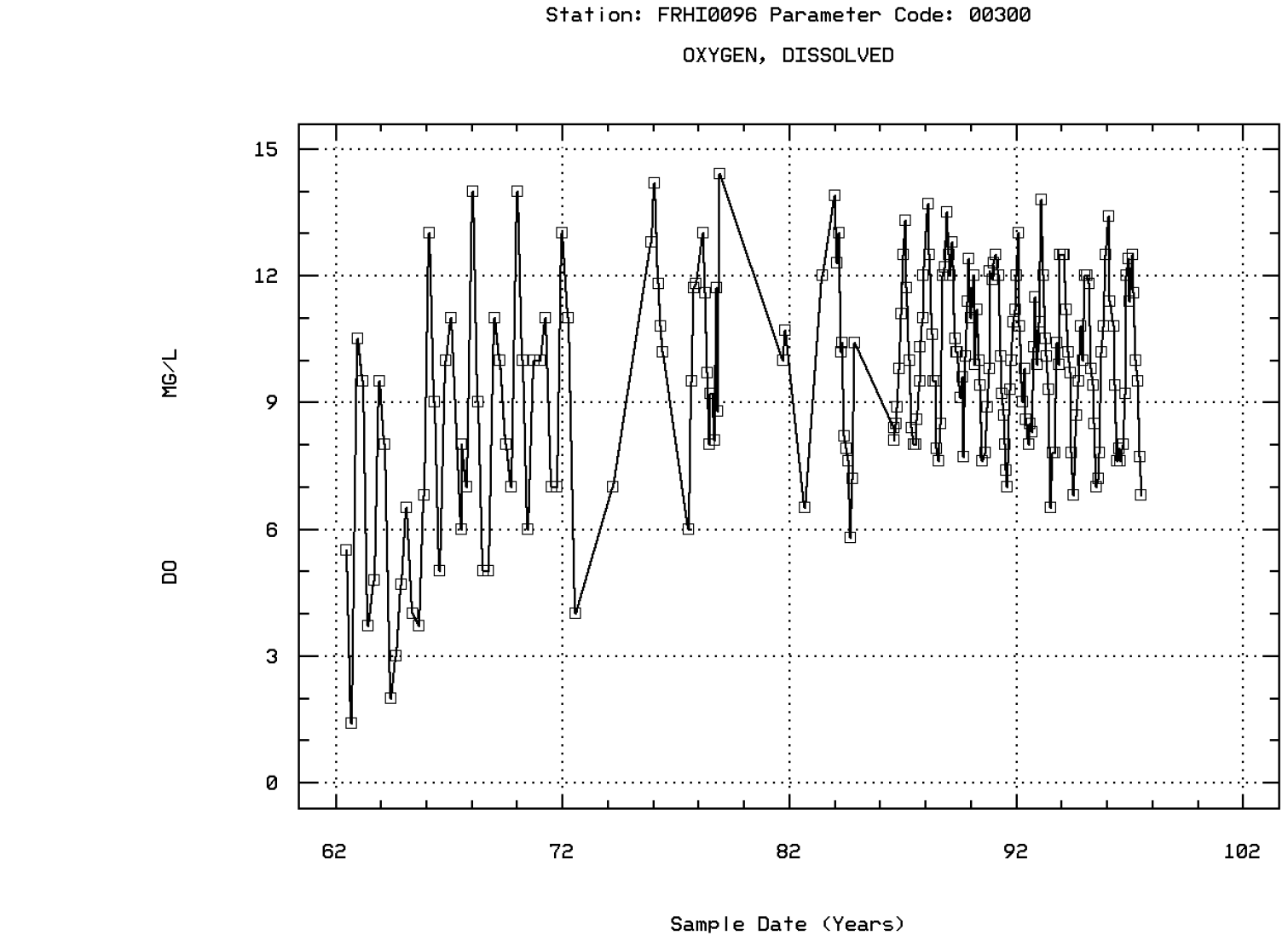
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



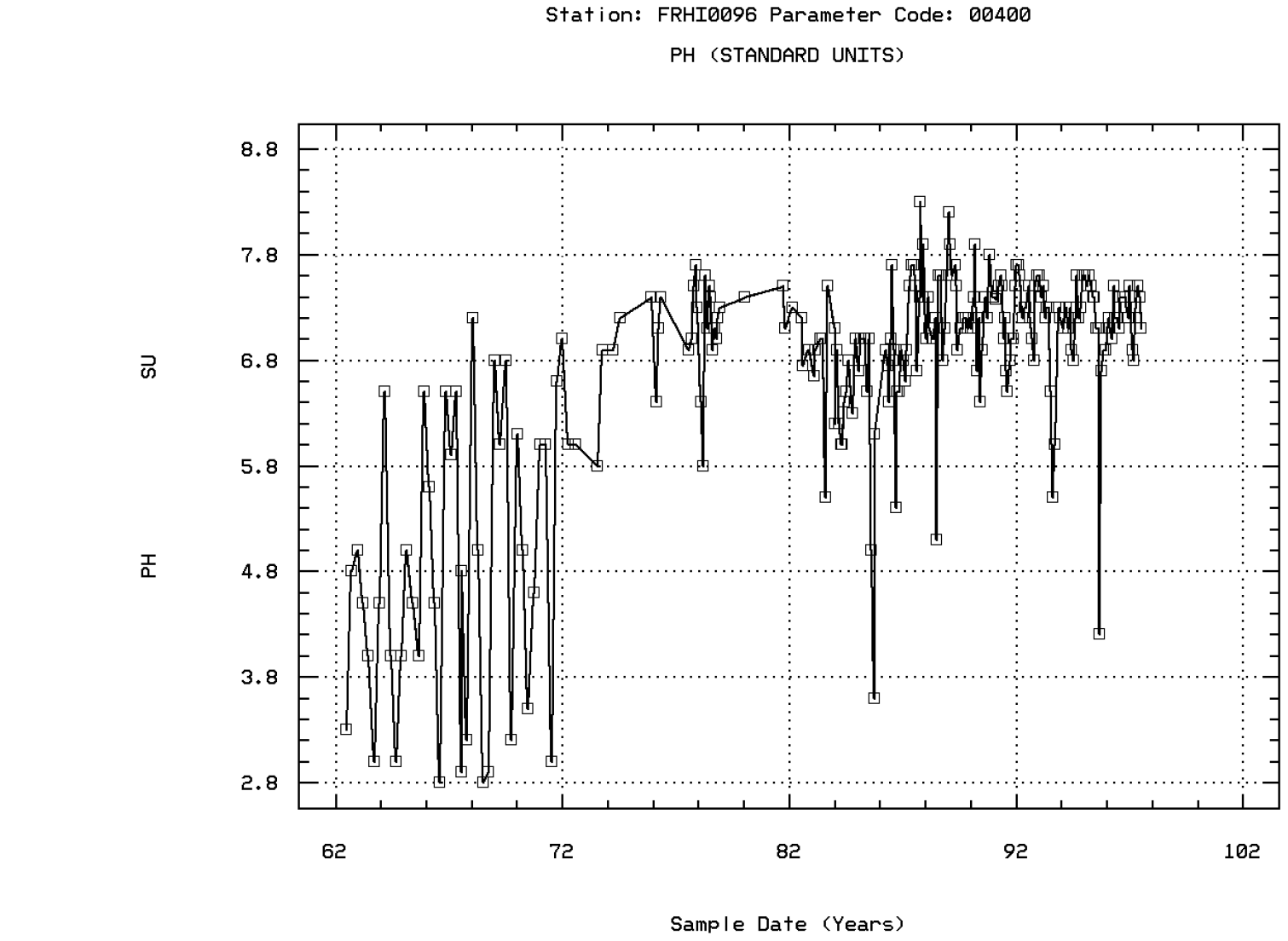
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



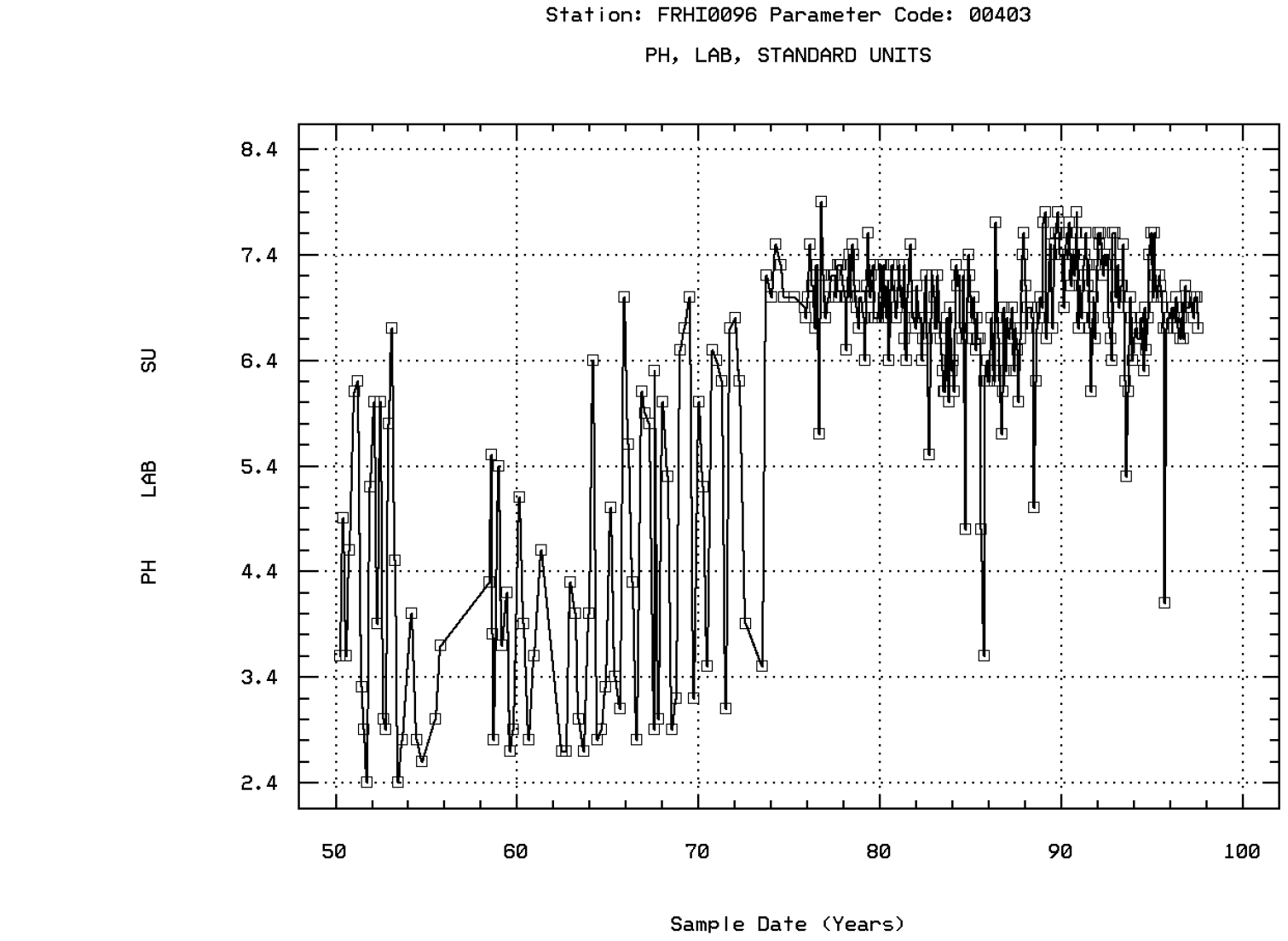
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



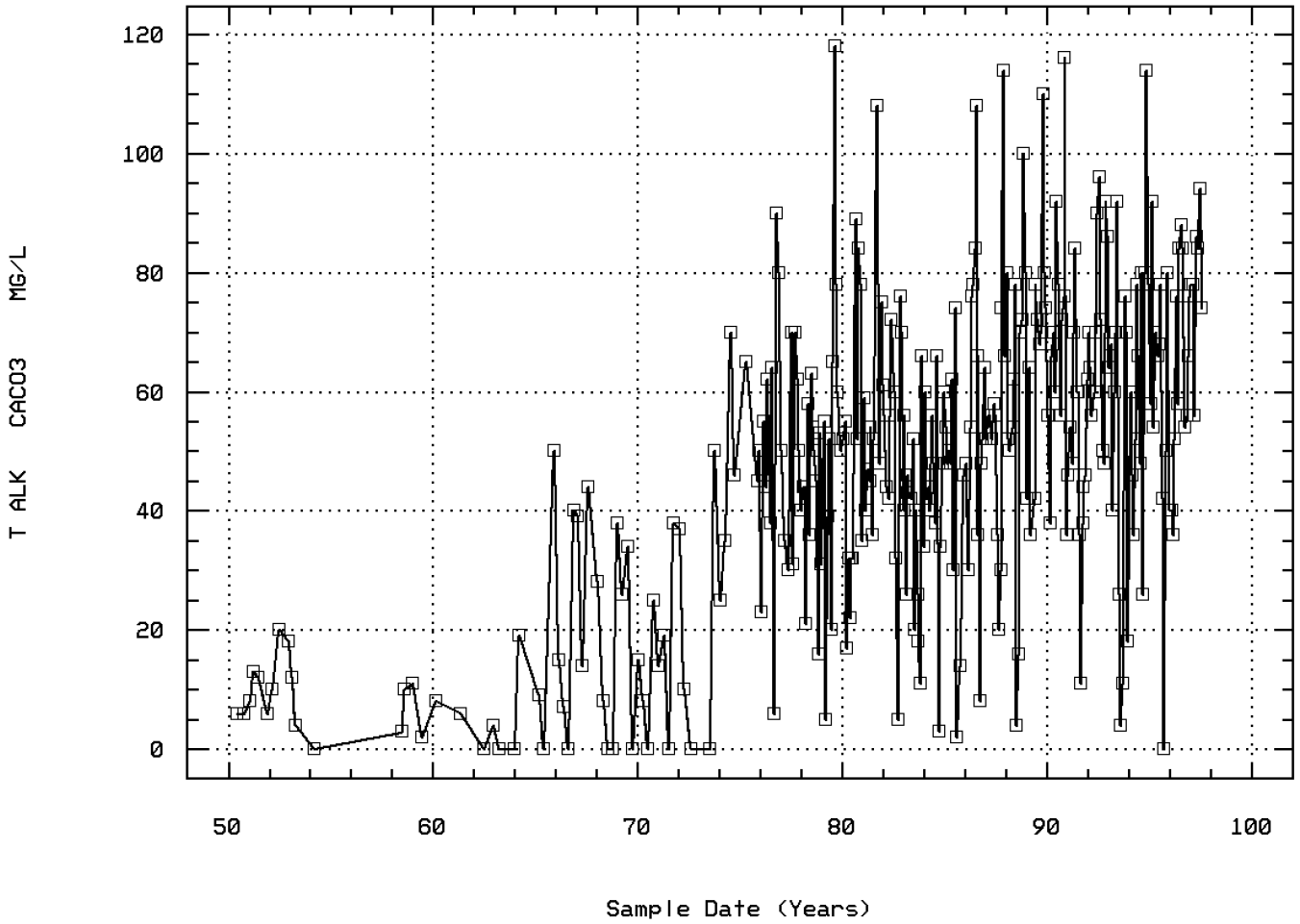
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



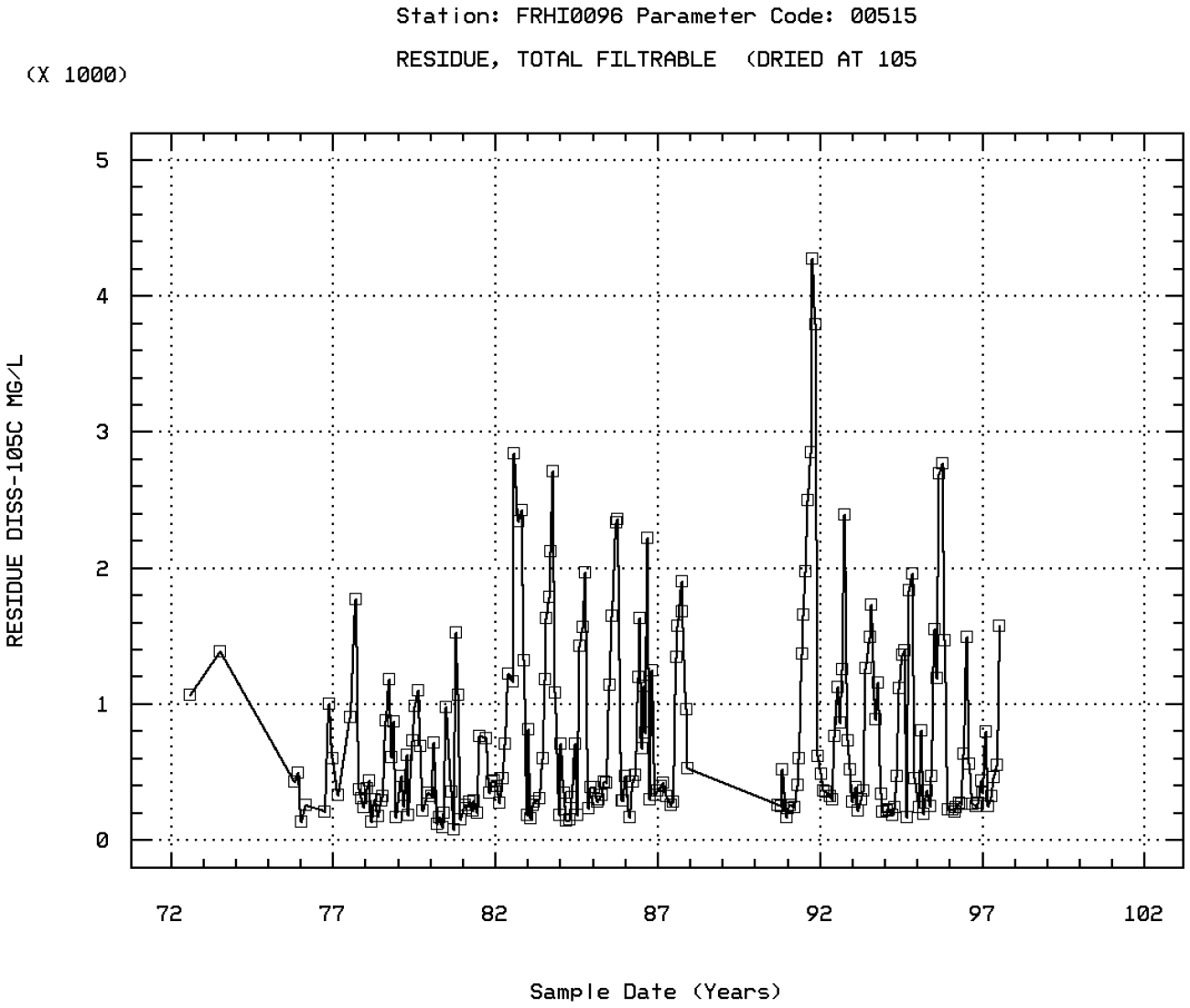
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



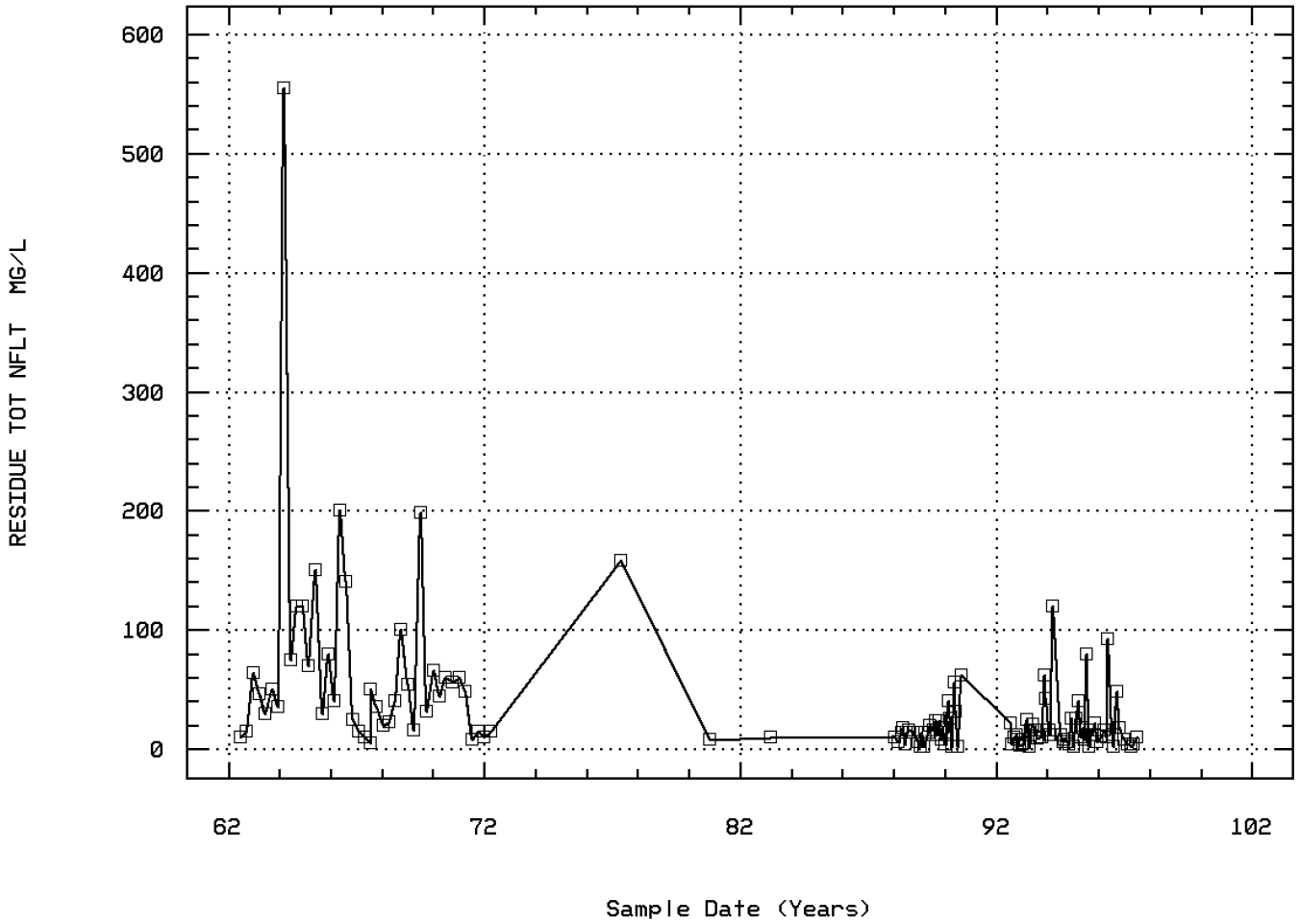
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00530

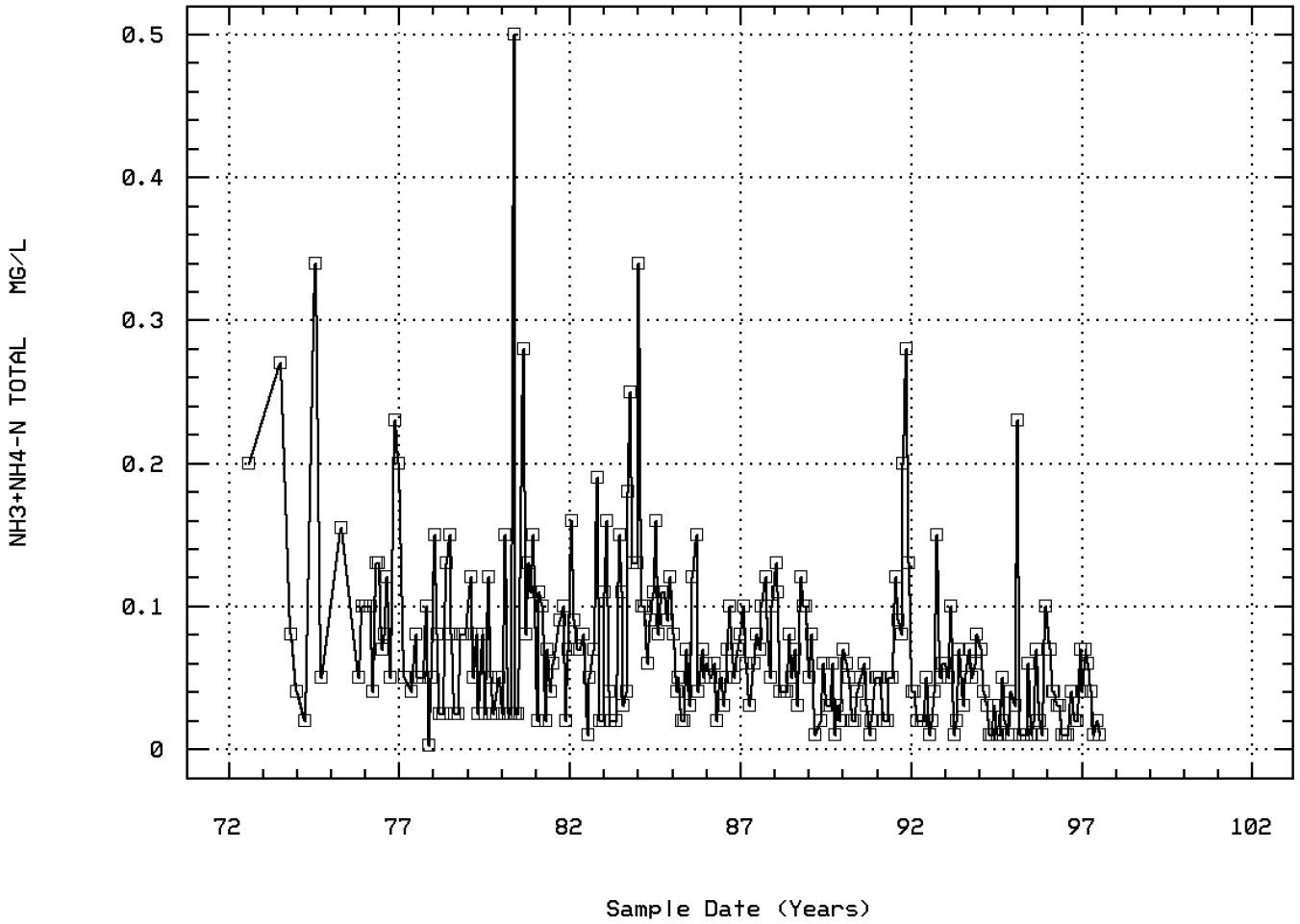
RESIDUE, TOTAL NONFILTRABLE (MG/L)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00610

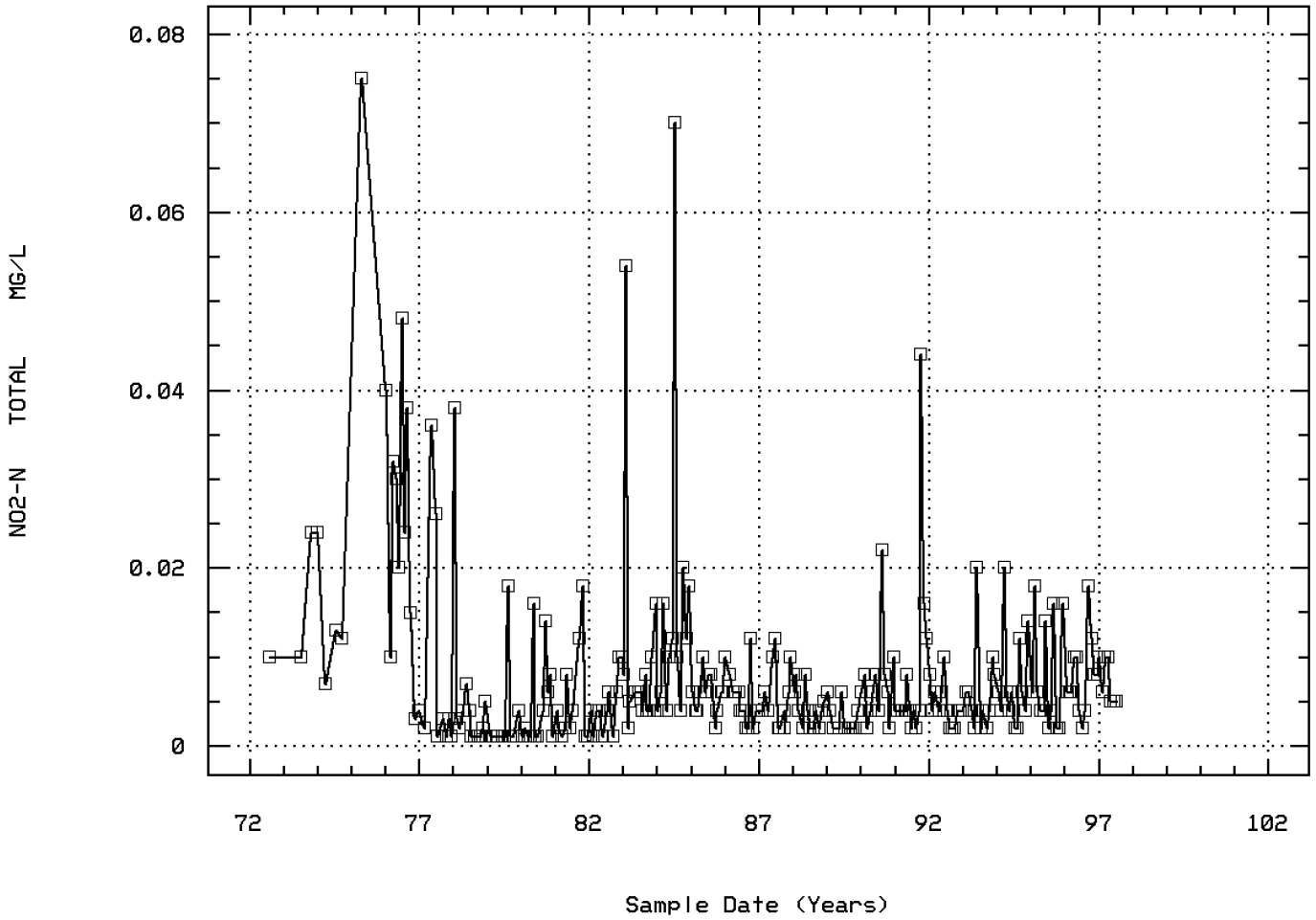
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00615

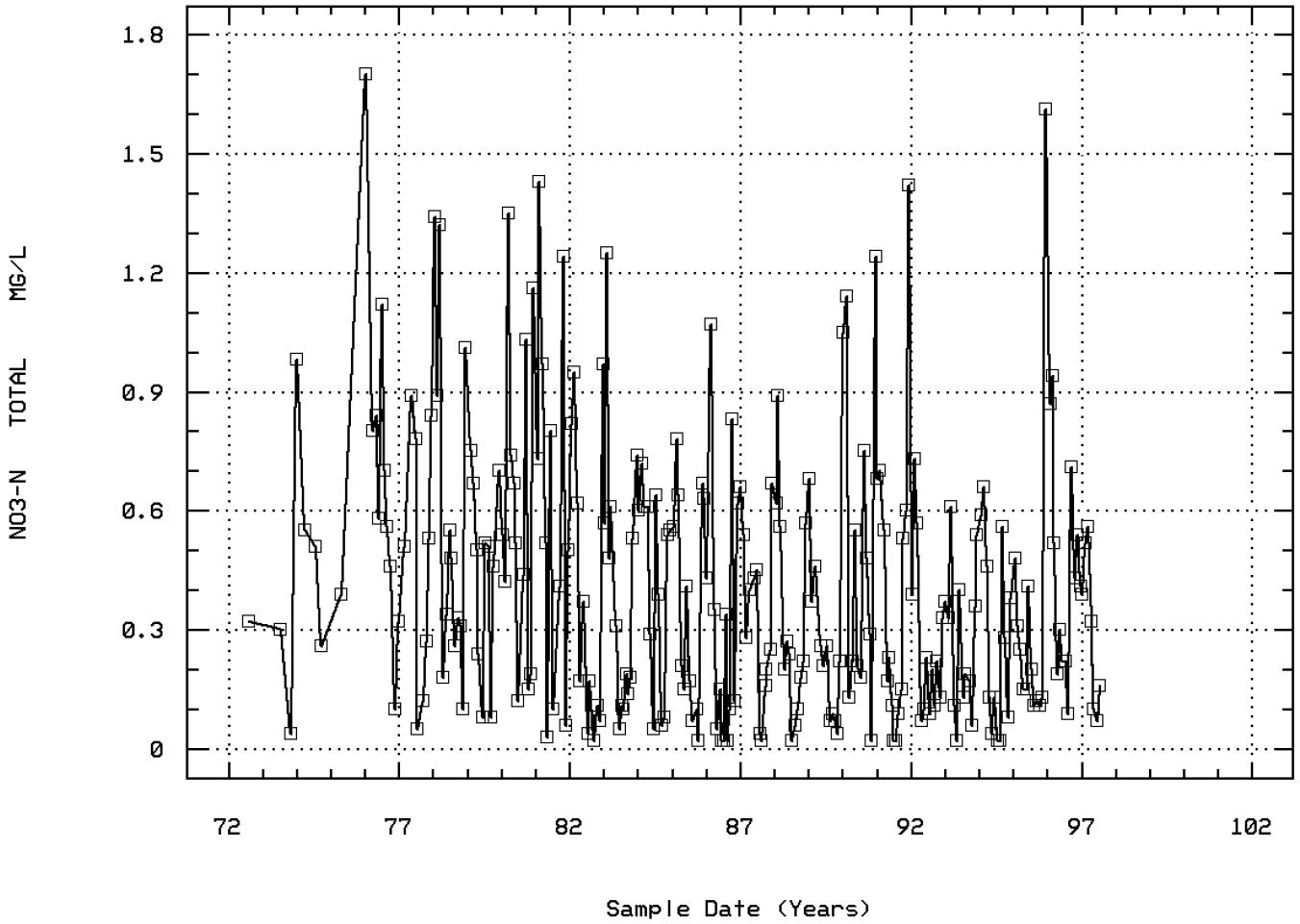
NITRITE NITROGEN, TOTAL (MG/L AS N)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00620

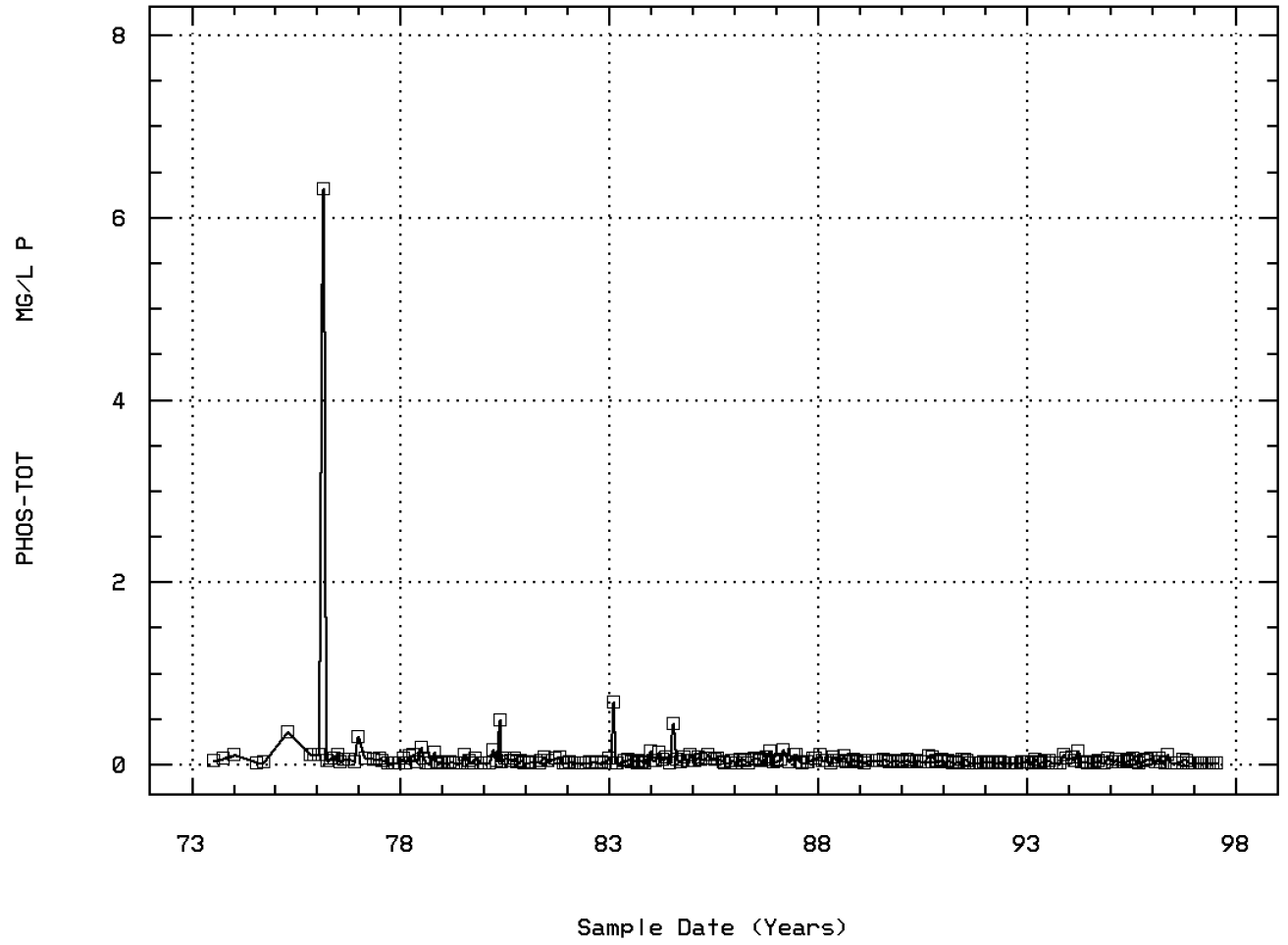
NITRATE NITROGEN, TOTAL (MG/L AS N)



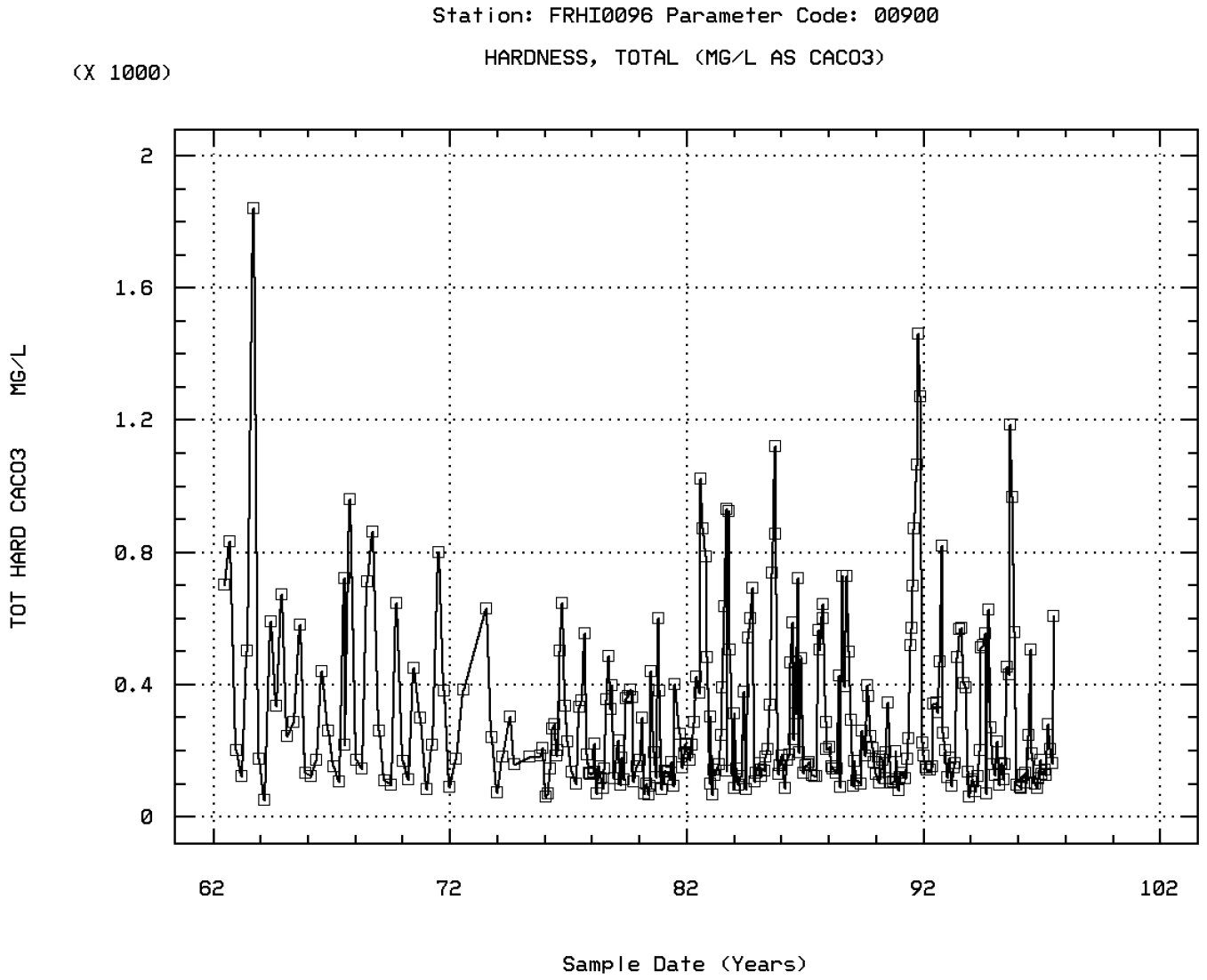
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00665

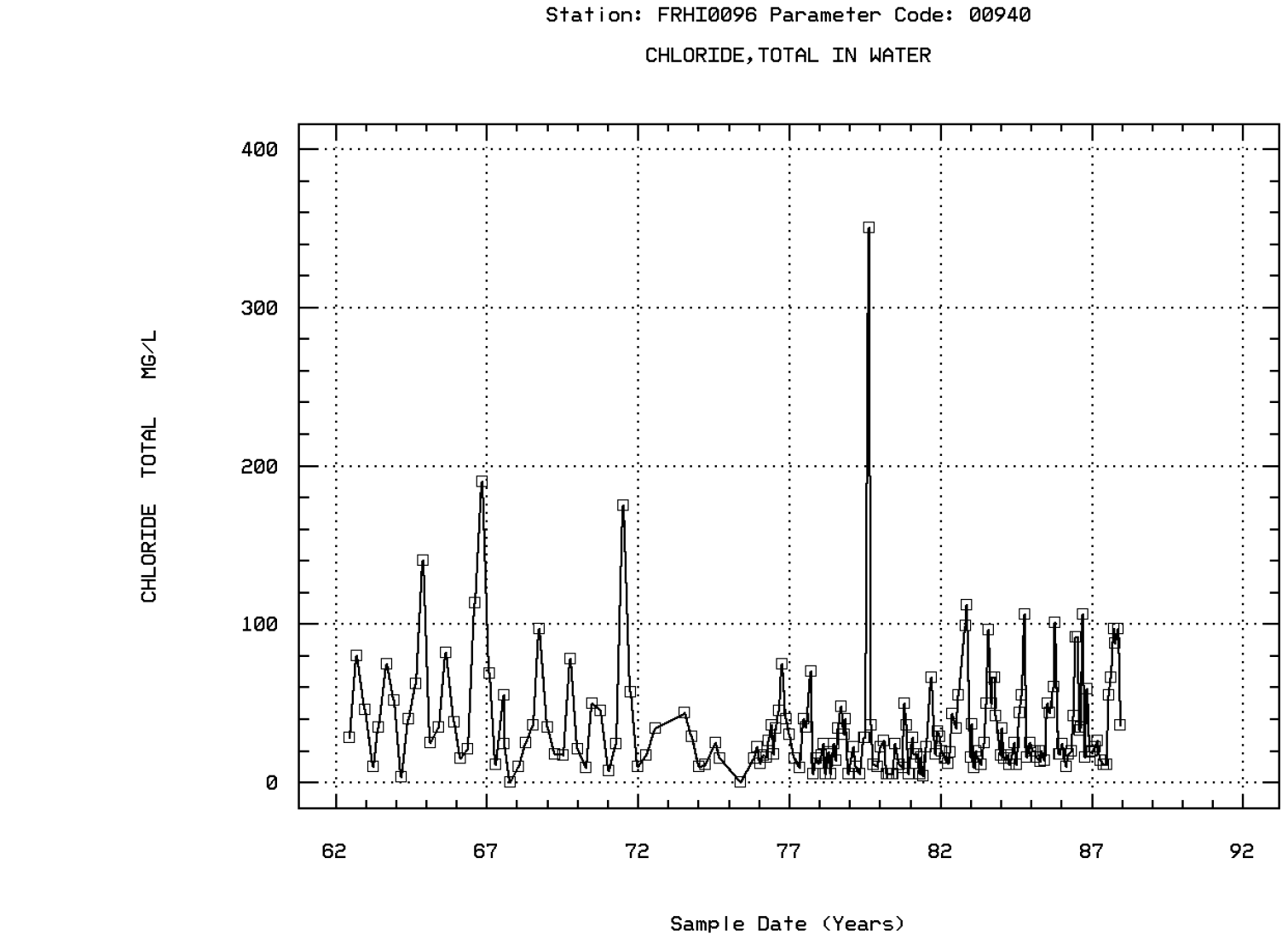
PHOSPHORUS, TOTAL (MG/L AS P)



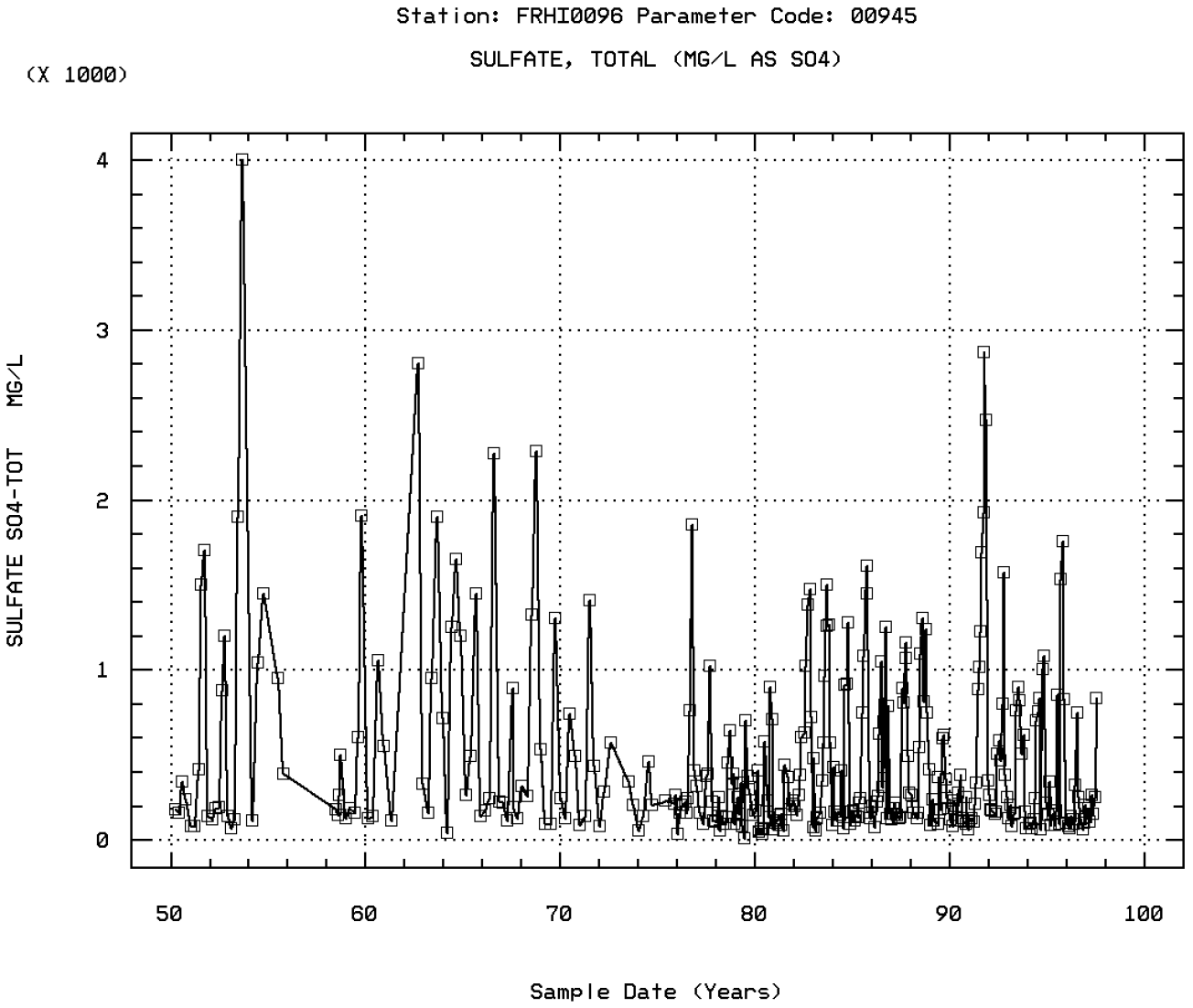
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



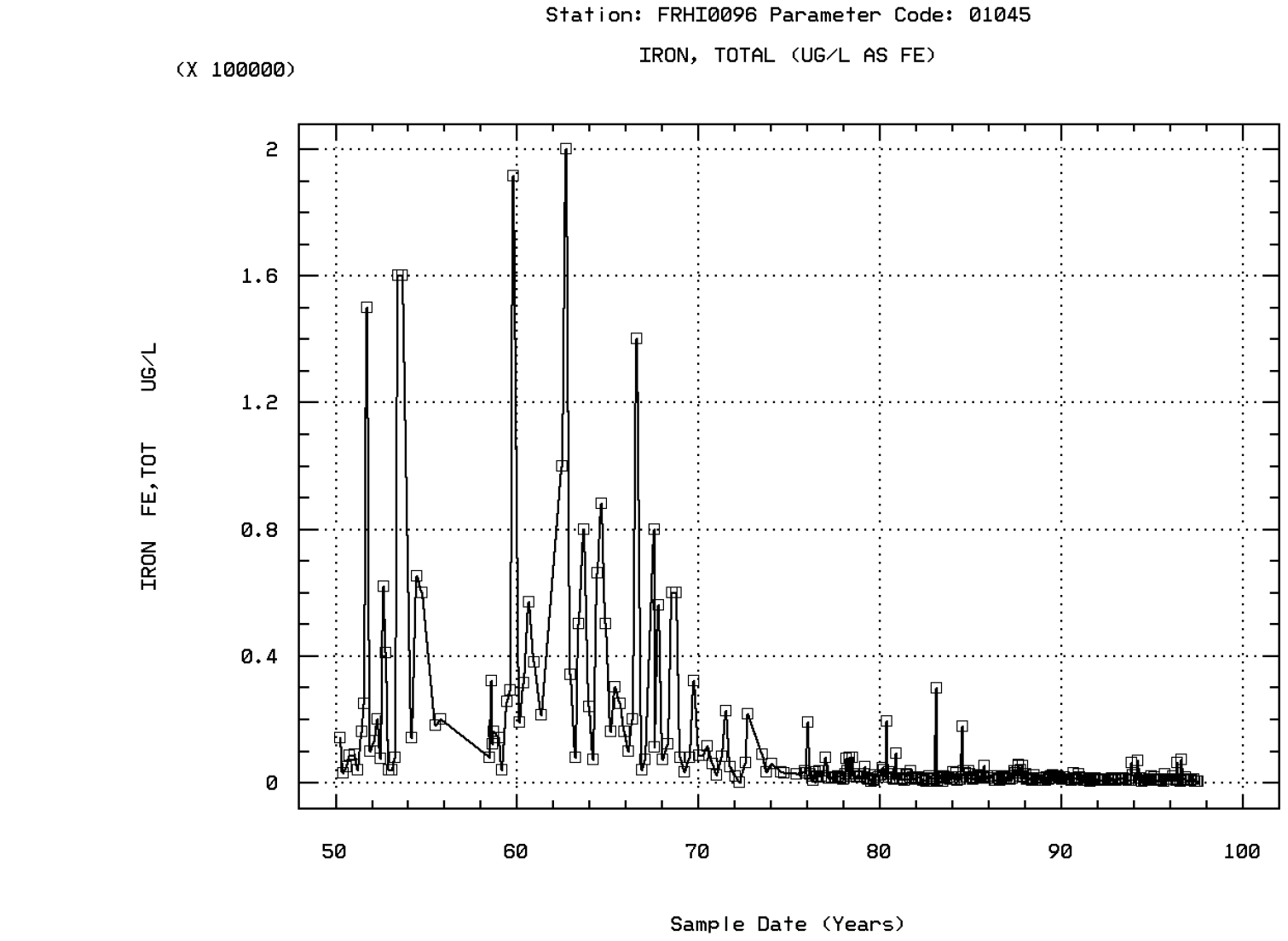
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



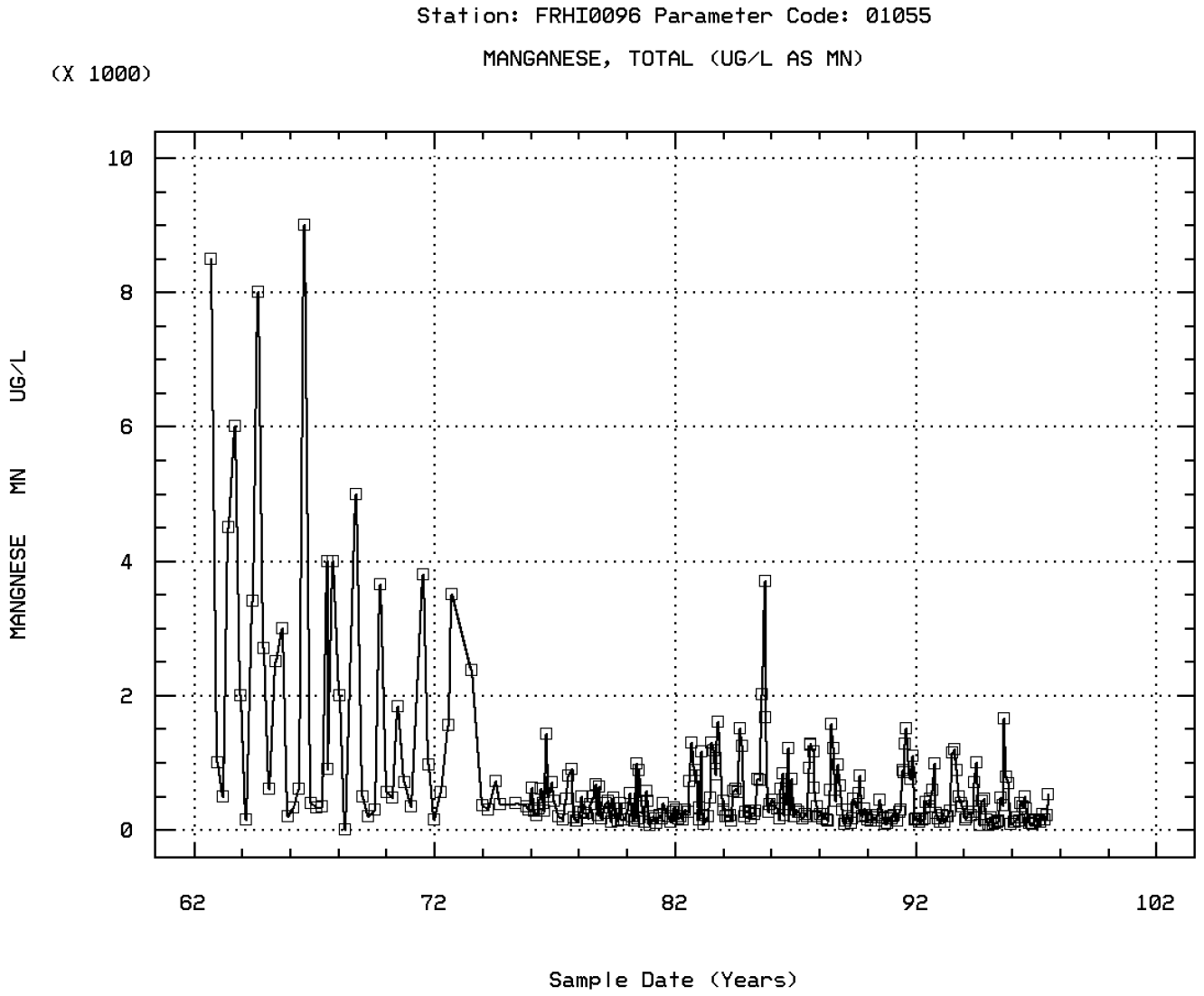
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



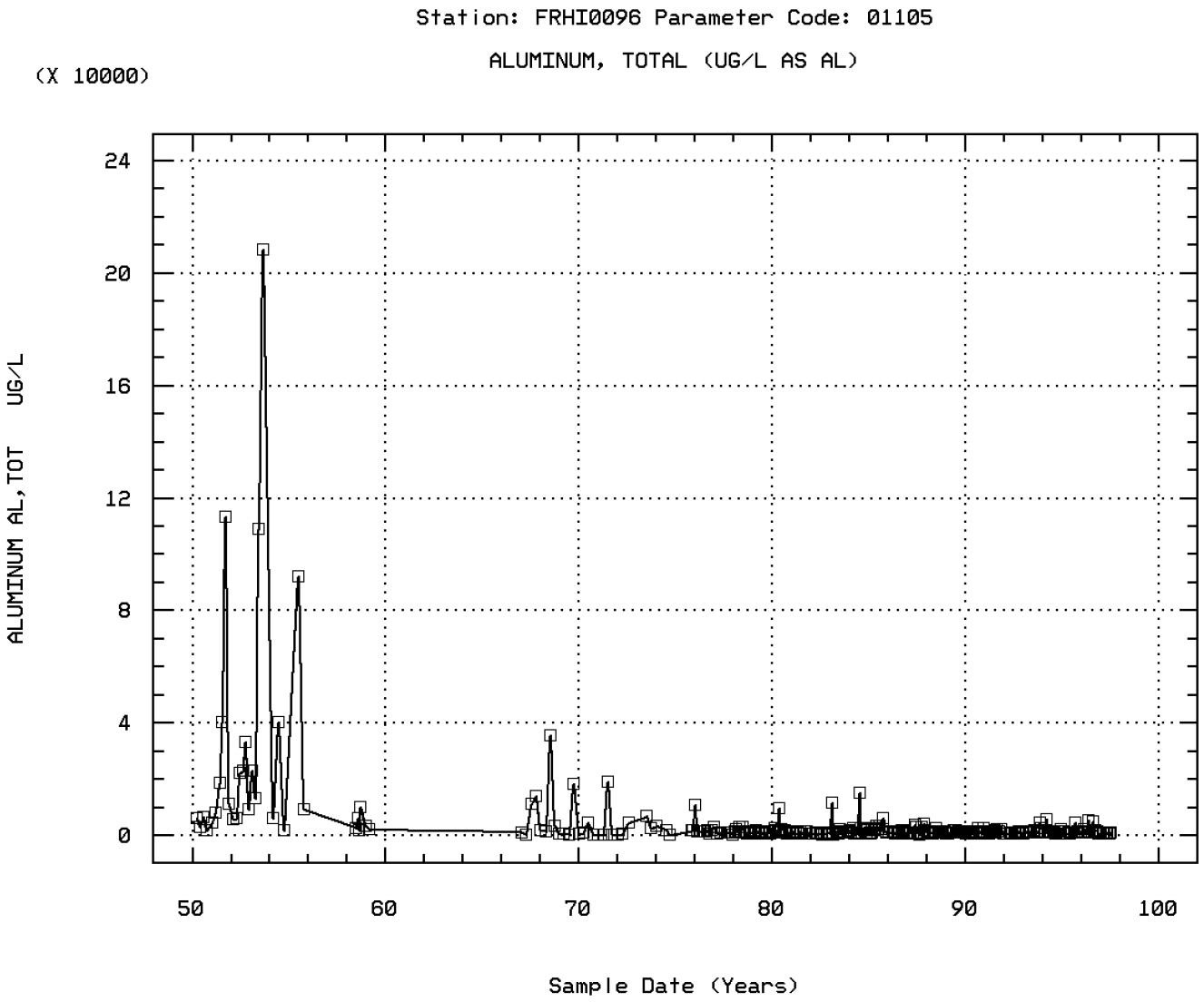
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Annual Analysis for 1950 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	84.	94.	164.	44.	3216.	56.71	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	4.1	4.175	4.9	3.6	0.456	0.675	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.86	3.87	4.9	3.6	0.58	0.762	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	138.154	135.021	251.189	12.589	18019.285	134.236	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	207.5	228.75	340.	160.	6506.25	80.661	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	6800.	7650.	14000.	3000.	23290000.	4825.971	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	4400.	4225.	6500.	1600.	5749166.667	2397.742	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	6	87.5	443.5	1400.	2.	388203.9	623.06	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	6	4.25	4.35	6.2	2.4	2.843	1.686	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	6	3.596	3.019	6.2	2.4	4.97	2.229	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	6	253.748	958.153	3981.072	0.631	2435341.851	1560.558	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	10.	9.75	13.	6.	10.917	3.304	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	6	275.	652.	1700.	80.	558040.	747.021	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	6	13000.	35666.667	150000.	4000.	3189066666.667	56471.822	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	6	14750.	32466.667	113000.	4300.	1718046666.667	41449.326	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	6	163.5	154.667	340.	4.	19647.067	140.168	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	6	4.85	4.6	6.	2.9	2.26	1.503	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	6	4.196	3.4	6.	2.9	3.988	1.997	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	6	63.739	398.067	1258.925	1.	330000.389	574.457	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	3	18.	16.	20.	10.	28.	5.292	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	6	188.5	452.167	1200.	116.	218359.367	467.289	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	6	16500.	24616.667	62000.	4000.	506681666.667	22509.591	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	6	15500.	16383.333	33000.	5500.	127281666.667	11281.918	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	116.	241.5	732.	2.	117449.667	342.709	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	3.65	4.1	6.7	2.4	3.833	1.958	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.092	2.854	6.7	2.4	5.903	2.43	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	808.258	1399.447	3981.072	0.2	3509337.67	1873.323	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	8.	8.	12.	4.	32.	5.657	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	1010.	1521.5	4000.	66.	3456302.333	1859.113	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	84000.	83000.	160000.	4000.	7908000000.	88926.936	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	66000.	88250.	208000.	13000.	8230250000.	90720.725	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	3	18.	45.333	111.	7.	3264.333	57.134	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	3	2.8	3.133	4.	2.6	0.573	0.757	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	3	2.8	2.854	4.	2.6	0.69	0.831	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	3	1584.893	1398.927	2511.886	100.	1480236.736	1216.65	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	3	1040.	866.667	1450.	110.	471433.333	686.61	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	3	60000.	46333.333	65000.	14000.	790333333.333	28112.868	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	3	5800.	15800.	40000.	1600.	443640000.	21062.763	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	2	18.	18.	24.	12.	72.	8.485	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	2	3.35	3.35	3.7	3.	0.245	0.495	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	2	3.222	3.222	3.7	3.	0.278	0.527	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	2	599.763	599.763	1000.	199.526	320379.127	566.02	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	2	670.	670.	950.	390.	156800.	395.98	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	2	19000.	19000.	20000.	18000.	2000000.	1414.214	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	2	50450.	50450.	92000.	8900.	3452805000.	58760.574	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	63.	72.	147.	15.	3092.667	55.612	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	4.05	4.1	5.5	2.8	1.26	1.122	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.982	3.348	5.5	2.8	2.015	1.419	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	104.304	449.166	1584.893	3.162	577509.079	759.94	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	6.5	6.5	10.	3.	24.5	4.95	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	220.	271.25	500.	145.	25572.917	159.915	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	14000.	17000.	32000.	8000.	110666666.667	10519.823	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	4200.	5000.	10000.	1600.	14773333.333	3843.609	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	5	36.	62.4	160.	2.	4406.8	66.384	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	5	3.7	3.78	5.4	2.7	1.187	1.089	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	5	3.7	3.152	5.4	2.7	1.679	1.296	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	5	199.526	704.158	1995.262	3.981	782644.754	884.672	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	6.5	6.5	11.	2.	40.5	6.364	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	5	185.	593.8	1905.	124.	574914.7	758.231	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	5	25700.	52860.	191500.	4000.	6105163000.	78135.542	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	2	2500.	2500.	3000.	2000.	500000.	707.107	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1960 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	70.	102.5	262.	8.	14561.	120.669	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	3.75	3.85	5.1	2.8	0.91	0.954	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.725	3.308	5.1	2.8	1.302	1.141	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	188.541	492.479	1584.893	7.943	540250.099	735.017	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	345.5	467.75	1055.	125.	192504.917	438.754	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	34700.	36375.	57100.	19000.	253382500.	15917.993	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	1	188.	188.	188.	188.	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	1	25.119	25.119	25.119	25.119	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	1	21300.	21300.	21300.	21300.	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 1962 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	3	22.	16.667	27.	1.	190.333	13.796	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	3	9.	20.333	50.	2.	672.333	25.929	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	2	5.5	5.5	9.	2.	24.5	4.95	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	3	5.5	5.8	10.5	1.4	20.77	4.557	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	3	4.8	4.367	5.	3.3	0.863	0.929	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	3	4.8	3.755	5.	3.3	1.424	1.193	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	3	15.849	175.679	501.187	10.	79475.396	281.914	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	3	2.7	3.233	4.3	2.7	0.853	0.924	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	3	2.7	2.871	4.3	2.7	1.051	1.025	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	3	1995.262	1346.881	1995.262	50.119	1261194.531	1123.029	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	2.	2.	4.	0.	8.	2.828	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	3	15.	29.667	64.	10.	890.333	29.838	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	3	700.	576.667	830.	200.	110633.333	332.616	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	3	46.	51.333	80.	28.	697.333	26.407	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	2	1565.	1565.	2800.	330.	3050450.	1746.554	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	3	100000.	111333.333	200000.	34000.	6985333333.333	83578.307	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	2	4750.	4750.	8500.	1000.	28125000.	5303.301	**	**	**	**

** - 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 1963 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	13.25	11.425	17.5	1.7	49.423	7.03	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	30.5	113.5	390.	3.	34155.	184.811	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	7.15	6.875	9.5	3.7	9.389	3.064	**	**	**	**

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Annual Analysis for 1963 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.25	4.	4.5	3.	0.5	0.707	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.182	3.536	4.5	3.	0.787	0.887	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	65.811	290.811	1000.	31.623	224571.649	473.89	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	3.5	3.425	4.	2.7	0.456	0.675	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.26	3.098	4.	2.7	0.599	0.774	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	550.	798.816	1995.262	100.	816215.463	903.446	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	40.5	40.25	50.	30.	86.917	9.323	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	337.5	658.75	1840.	120.	648272.917	805.154	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	43.5	43.	75.	10.	752.667	27.435	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	832.5	930.	1900.	155.	529383.333	727.587	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	37000.	40500.	80000.	8000.	993000000.	31511.903	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	3250.	3250.	6000.	500.	6083333.333	2466.441	**	**	**	**

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Annual Analysis for 1964 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	15.55	15.275	23.9	6.1	78.122	8.839	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	14.5	1013.25	4020.	4.	4018044.917	2004.506	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	4	12.	1309.5	5212.	2.	6768694.333	2601.671	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	3.85	4.425	8.	2.	6.922	2.631	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.	4.375	6.5	3.	2.229	1.493	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.	3.523	6.5	3.	3.198	1.788	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	100.	300.079	1000.	0.316	219936.779	468.974	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	3.1	3.85	6.4	2.8	2.937	1.714	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.055	3.078	6.4	2.8	3.732	1.932	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	880.056	836.351	1584.893	0.398	516678.846	718.804	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	120.	217.5	555.	75.	51075.	225.998	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	462.5	411.25	670.	50.	78406.25	280.011	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	51.	61.25	140.	3.	3348.917	57.87	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	1225.	1035.	1650.	40.	480566.667	693.229	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	58000.	52800.	88000.	7200.	1166826666.667	34158.845	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	3050.	3562.5	8000.	150.	10702291.667	3271.436	**	**	**	**

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Annual Analysis for 1965 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	12.5	12.775	25.	1.1	144.609	12.025	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	86.5	99.25	215.	9.	8437.583	91.856	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	4	23.5	52.25	161.	1.	5528.917	74.357	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	5.25	5.25	6.8	3.7	2.643	1.626	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.75	5.	6.5	4.	1.167	1.08	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.682	4.45	6.5	4.	1.57	1.253	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	20.811	35.485	100.	0.316	2021.143	44.957	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	4.2	4.625	7.	3.1	3.203	1.79	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.69	3.522	7.	3.1	4.825	2.197	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	204.054	300.634	794.328	0.1	142674.608	377.723	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	3	9.	19.667	50.	0.	710.333	26.652	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	75.	82.5	150.	30.	2491.667	49.917	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	264.	309.5	580.	130.	36833.	191.919	**	**	**	**

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Annual Analysis for 1965 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	36.5	45.	82.	25.	639.333	25.285	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	377.5	585.	1450.	135.	354050.	595.021	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	20500.	21750.	30000.	16000.	48250000.	6946.222	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	1550.	1575.	3000.	200.	1909166.667	1381.726	**	**	**	**

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Annual Analysis for 1966 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	11.4	12.225	25.6	0.5	162.336	12.741	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	51.	65.75	153.	8.	4808.25	69.342	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	85.	93.	188.	6.	8329.	91.263	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	9.5	9.25	13.	5.	10.917	3.304	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	5.05	4.85	6.5	2.8	2.537	1.593	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.768	3.393	6.5	2.8	5.368	2.317	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	17.067	404.836	1584.893	0.316	619108.009	786.834	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	4.95	4.7	6.1	2.8	2.18	1.476	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	4.58	3.388	6.1	2.8	4.476	2.116	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	26.315	409.58	1584.893	0.794	614461.228	783.876	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	11.	15.5	40.	0.	304.333	17.445	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	90.	101.25	200.	25.	6939.583	83.304	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	215.	247.5	440.	120.	19825.	140.801	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	67.	84.75	190.	15.	6934.917	83.276	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	232.5	727.5	2275.	170.	1065241.667	1032.105	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	15000.	43500.	140000.	4000.	4182333333.333	64670.962	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	500.	2582.5	9000.	330.	18317225.	4279.863	**	**	**	**

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Annual Analysis for 1967 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	3	20.	20.667	26.	16.	25.333	5.033	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	5	9.	82.6	345.	5.	21780.8	147.583	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	9.	9.567	19.	0.7	83.963	9.163	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	7.5	8.	11.	6.	4.667	2.16	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	5	4.8	4.66	6.5	2.9	2.543	1.595	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	5	4.8	3.419	6.5	2.9	4.469	2.114	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	5	15.849	381.461	1258.925	0.316	313922.34	560.288	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	5	5.8	4.78	6.3	2.9	2.827	1.681	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	5	5.8	3.344	6.3	2.9	5.403	2.324	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	5	1.585	452.454	1258.925	0.501	390331.013	624.765	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	3	39.	32.333	44.	14.	258.333	16.073	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	5	15.	23.	50.	5.	357.5	18.908	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	5	216.	430.8	960.	106.	148263.2	385.05	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	5	24.	31.8	69.	0.	856.7	29.269	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	5	190.	306.	888.	112.	107714.5	328.199	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	33600.	38600.	80000.	7200.	1251146666.667	35371.552	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	5	900.	1916.	4000.	330.	3671530.	1916.124	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	5825.	6440.	13900.	210.	48843133.333	6988.786	**	**	**	**

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Annual Analysis for 1968 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	5.	6.5	16.	0.	56.333	7.506	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	40.	45.25	98.	3.	2140.917	46.27	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	13.	46.	114.	11.	3469.	58.898	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	7.	8.25	14.	5.	18.25	4.272	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	3.95	4.475	7.2	2.8	4.329	2.081	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	3.198	3.147	7.2	2.8	6.682	2.585	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	634.463	713.47	1584.893	0.063	686906.48	828.798	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	4.25	4.35	6.	2.9	2.35	1.533	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	3.498	3.324	6.	2.9	3.753	1.937	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	317.985	473.974	1258.925	1.	361474.124	601.227	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	4.	9.	28.	0.	174.667	13.216	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	31.5	45.75	100.	20.	1385.583	37.223	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	442.	472.	860.	144.	135242.667	367.754	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	30.5	42.	97.	10.	1458.	38.184	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	818.5	1044.75	2288.	254.	928806.25	963.746	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	36000.	34800.	60000.	7200.	850560000.	29164.362	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	3	2000.	2333.333	5000.	0.	6333333.333	2516.611	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	2375.	10300.	35400.	1050.	280848333.333	16758.53	**	**	**	**

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Annual Analysis for 1969 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	6.5	6.5	13.	0.	28.333	5.323	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	107.5	242.25	750.	4.	118730.917	344.574	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	4	109.	128.	287.	7.	15790.667	125.661	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	9.	9.	11.	7.	3.333	1.826	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	6.4	5.7	6.8	3.2	2.92	1.709	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	6.237	3.801	6.8	3.2	7.727	2.78	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	0.579	158.069	630.957	0.158	99388.505	315.259	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	6.6	5.85	7.	3.2	3.163	1.779	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	6.589	3.802	7.	3.2	8.758	2.959	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	0.258	157.893	630.957	0.1	99462.059	315.376	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	30.	24.5	38.	0.	291.667	17.078	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	43.	75.	198.	16.	6966.667	83.467	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	183.	276.5	644.	96.	65457.	255.846	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	26.5	37.	78.	17.	815.333	28.554	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	311.5	503.	1300.	89.	325144.667	570.215	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	8000.	12800.	32000.	3200.	168960000.	12998.461	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	395.	1160.	3650.	200.	2771400.	1664.752	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	430.	4742.5	18000.	110.	78151958.333	8840.36	**	**	**	**

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Annual Analysis for 1970 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	9.5	11.	25.	0.	115.333	10.739	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	86.5	125.75	313.	17.	19430.25	139.392	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	153.	226.667	498.	29.	59060.333	243.023	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	10.	10.	14.	6.	10.667	3.266	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.8	4.8	6.1	3.5	1.153	1.074	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	4.755	4.055	6.1	3.5	1.893	1.376	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	17.559	88.035	316.228	0.794	23243.592	152.458	**	**	**	**

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Annual Analysis for 1970 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	5.6	5.3	6.5	3.5	1.727	1.314	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	5.437	4.092	6.5	3.5	3.673	1.917	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	3.655	80.963	316.228	0.316	24606.876	156.866	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	11.5	12.	25.	0.	112.667	10.614	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	58.	56.5	66.	44.	86.333	9.292	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	233.	256.5	448.	112.	22369.	149.563	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	33.	31.25	50.	9.	380.25	19.5	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	367.5	399.5	740.	123.	74817.667	273.528	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	8700.	8725.	11600.	5900.	5415833.333	2327.194	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	630.	895.	1840.	480.	405166.667	636.527	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	550.	1360.	4200.	140.	3651466.667	1910.881	**	**	**	**

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Annual Analysis for 1971 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	4	15.5	16.75	28.	8.	88.917	9.43	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	60.	83.5	211.	3.	8363.667	91.453	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	80.	415.333	1140.	26.	394585.333	628.16	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	8.5	8.75	11.	7.	4.25	2.062	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	4	6.	5.4	6.6	3.	2.64	1.625	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	4	6.	3.601	6.6	3.	6.955	2.637	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	4	1.	250.563	1000.	0.251	249625.067	499.625	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	6.3	5.6	6.7	3.1	2.82	1.679	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	6.289	3.701	6.7	3.1	7.626	2.762	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	0.515	198.889	794.328	0.2	157576.758	396.959	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	16.5	17.75	38.	0.	246.917	15.714	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	4	31.5	32.75	60.	8.	634.25	25.184	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	298.	369.5	800.	82.	97219.667	311.801	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	40.5	65.75	175.	7.	5735.583	75.734	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	283.5	515.25	1407.	87.	376318.917	613.448	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	6600.	9525.	22600.	2300.	81795833.333	9044.105	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	3	960.	1703.333	3800.	350.	3390033.333	1841.204	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	4	110.	4759.5	18800.	18.	87618321.	9360.466	**	**	**	**

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Annual Analysis for 1972 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	3	7.	10.5	20.	4.5	69.25	8.322	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	97.	186.5	545.	7.	62095.	249.189	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	3	11.	9.333	13.	4.	22.333	4.726	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	3	6.	6.333	7.	6.	0.333	0.577	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	3	6.	6.155	7.	6.	0.381	0.617	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	3	1.	0.7	1.	0.1	0.27	0.52	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	3	6.2	5.633	6.8	3.9	2.343	1.531	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	3	6.2	4.374	6.8	3.9	4.721	2.173	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	3	0.631	42.227	125.893	0.158	5249.957	72.457	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	3	10.	15.667	37.	0.	366.333	19.14	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	1	1066.	1066.	1066.	1066.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	2	12.5	12.5	15.	10.	12.5	3.536	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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Annual Analysis for 1972 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	3	174.	215.333	382.	90.	22597.333	150.324	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	3	17.	20.333	34.	10.	152.333	12.342	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	3	285.	309.667	567.	77.	60481.333	245.93	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	4	4175.	7466.	21500.	14.	94252690.667	9708.382	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	1055.	1440.	3500.	150.	2231400.	1493.787	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	3	440.	1681.667	4500.	105.	5985308.333	2446.489	**	**	**	**

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Annual Analysis for 1973 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	2	18.5	18.5	19.	18.	0.5	0.707	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	3	110.	80.667	122.	10.	3781.333	61.493	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	2	1035.	1035.	1600.	470.	638450.	799.031	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	2	6.35	6.35	6.9	5.8	0.605	0.778	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	2	6.068	6.068	6.9	5.8	0.764	0.874	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	2	0.855	0.855	1.585	0.126	1.064	1.032	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	2	5.35	5.35	7.2	3.5	6.845	2.616	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	2	3.801	3.801	7.2	3.5	11.644	3.412	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	2	158.145	158.145	316.228	0.063	49980.049	223.562	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	2	25.	25.	50.	0.	1250.	35.355	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	1	1384.	1384.	1384.	1384.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	2	0.175	0.175	0.27	0.08	0.018	0.134	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	2	0.017	0.017	0.024	0.01	0.	0.01	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	2	0.17	0.17	0.3	0.04	0.034	0.184	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	2	0.05	0.05	0.06	0.04	0.	0.014	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	2	435.	435.	630.	240.	76050.	275.772	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	2	36.5	36.5	44.	29.	112.5	10.607	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	2	272.5	272.5	341.	204.	9384.5	96.874	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	2	6150.	6150.	8900.	3400.	15125000.	3889.087	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	1	2380.	2380.	2380.	2380.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	2	4495.	4495.	6640.	2350.	9202050.	3033.488	**	**	**	**

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Annual Analysis for 1974 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	169.5	513.75	1660.	56.	590613.583	768.514	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	4	370.	482.5	1020.	170.	137891.667	371.338	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	2	7.05	7.05	7.2	6.9	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	2	7.025	7.025	7.2	6.9	0.046	0.215	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	2	0.094	0.094	0.126	0.063	0.002	0.044	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	4	7.15	7.2	7.5	7.	0.06	0.245	**	**	**	**

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Annual Analysis for 1974 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	4	7.125	7.152	7.5	7.	0.063	0.251	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	4	0.075	0.07	0.1	0.032	0.001	0.035	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	4	40.5	44.	70.	25.	374.	19.339	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	4	0.045	0.113	0.34	0.02	0.023	0.152	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	4	0.013	0.014	0.024	0.007	0.	0.007	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	4	0.53	0.575	0.98	0.26	0.089	0.299	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	3	0.03	0.047	0.1	0.01	0.002	0.047	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	4	168.	177.	300.	72.	8868.	94.17	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	4	13.	15.25	25.	10.	46.917	6.85	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	4	172.	213.75	460.	51.	30886.917	175.747	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	3	3400.	4083.333	5850.	3000.	2380833.333	1542.995	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	4	370.	440.	720.	300.	36000.	189.737	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	3	1500.	1576.667	3060.	170.	2092433.333	1446.525	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	2	6.	6.	8.	4.	8.	2.828	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	4	206.	210.25	363.	66.	25309.583	159.09	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	3	650.	640.	760.	510.	15700.	125.3	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	1	12.8	12.8	12.8	12.8	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	3	6.9	6.9	7.	6.8	0.01	0.1	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	3	6.9	6.892	7.	6.8	0.01	0.1	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	3	0.126	0.128	0.158	0.1	0.001	0.029	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	3	50.	53.333	65.	45.	108.333	10.408	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	2	460.	460.	490.	430.	1800.	42.426	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	3 ##	0.1	0.102	0.155	0.05	0.003	0.053	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	1	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	3 ##	0.1	0.183	0.35	0.1	0.021	0.144	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	3	185.	190.	205.	180.	175.	13.229	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	3	15.	12.4	22.	0.2	123.88	11.13	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	3	230.	235.	265.	210.	775.	27.839	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	3	2950.	3050.	3500.	2700.	167500.	409.268	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	3	340.	346.667	400.	300.	2533.333	50.332	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	3	1500.	1033.667	1600.	1.	802300.333	895.712	**	**	**	**

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Annual Analysis for 1976 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	8	12.	10.375	19.	0.	41.125	6.413	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	11	61.	182.182	1160.	13.	109418.564	330.785	18.2	40.	190.	972.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	11	650.	930.909	3320.	155.	773054.091	879.235	190.	485.	1100.	2956.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	11.3	11.75	14.2	10.2	3.103	1.762	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	3	7.1	6.967	7.4	6.4	0.263	0.513	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	3	7.1	6.763	7.4	6.4	0.325	0.57	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	3	0.079	0.172	0.398	0.04	0.039	0.196	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	11	7.1	7.055	7.9	5.7	0.309	0.556	5.9	6.8	7.3	7.82

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Annual Analysis for 1976 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	11	7.1	6.591	7.9	5.7	0.545	0.738	5.9	6.8	7.3	7.82
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	11	0.079	0.256	1.995	0.013	0.336	0.579	0.016	0.05	0.158	1.636
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	11	50.	50.727	90.	6.	572.018	23.917	9.4	38.	64.	88.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	5	255.	437.6	998.	135.	130048.3	360.622	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.1	0.114	0.23	0.04	0.003	0.059	0.042	0.07	0.13	0.224
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.024	0.024	0.048	0.003	0.	0.015	0.003	0.01	0.038	0.046
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	10	0.64	0.718	1.7	0.1	0.2	0.447	0.122	0.425	0.91	1.642
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	11	0.06	0.649	6.31	0.03	3.531	1.879	0.03	0.04	0.1	5.108
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	11	225.	264.273	645.	60.	31182.218	176.585	62.	144.	335.	616.
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	11	30.	31.727	75.	12.	321.818	17.939	12.8	17.	40.	69.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	11	220.	413.	1850.	30.	262684.8	512.528	55.	160.	405.	1632.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	11	2600.	4404.545	19000.	550.	27140967.273	5209.699	798.	1850.	3750.	16800.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	11	420.	524.545	1430.	210.	115447.273	339.775	224.	280.	620.	1284.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	11	1220.	2147.273	10500.	600.	7925101.818	2815.156	682.	1010.	1600.	8920.

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Annual Analysis for 1977 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	5	9.	12.2	28.	1.	124.7	11.167	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	14	112.	192.286	687.	14.	44858.374	211.798	14.	21.	298.5	604.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	123.	158.	257.	94.	7561.	86.954	**	**	**	**
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	4	3.6	4.675	10.	1.5	13.823	3.718	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	8	494.5	720.	2100.	120.	404520.286	636.019	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	4	10.6	9.75	11.8	6.	7.377	2.716	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	5	7.3	7.28	7.7	6.9	0.112	0.335	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	5	7.3	7.184	7.7	6.9	0.124	0.352	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	5	0.05	0.066	0.126	0.02	0.002	0.046	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	8	7.2	7.175	7.3	7.	0.016	0.128	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	8	7.2	7.158	7.3	7.	0.017	0.129	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	8	0.063	0.069	0.1	0.05	0.	0.021	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	8	45.	48.5	70.	30.	287.429	16.954	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	6	349.	652.5	1770.	240.	357450.3	597.871	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	1	158.	158.	158.	158.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	8 ##	0.05	0.053	0.1	0.003	0.001	0.029	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	8	0.003	0.009	0.036	0.001	0.	0.014	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	8	0.52	0.499	0.89	0.05	0.107	0.327	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	8 ##	0.025	0.031	0.06	0.01	0.001	0.024	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	8	161.5	239.25	555.	99.	25350.786	159.219	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	8	15.	25.125	70.	5.	482.125	21.957	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	8	190.	309.75	1020.	90.	96079.071	309.966	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	8	1525.	1490.	2000.	1050.	80514.286	283.75	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	8	190.	371.25	900.	140.	99012.5	314.663	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	7	700.	595.714	800.	50.	76128.571	275.914	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12	120.	195.833	1000.	20.	69662.879	263.937	26.	55.	210.	781.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12	2.073	2.069	3.	1.301	0.196	0.443	1.391	1.702	2.321	2.829
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			117.185								

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Annual Analysis for 1978 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	10.5	12.5	26.	0.	103.364	10.167	0.3	2.	23.5	26.
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	25	140.	352.	2110.	24.	314027.333	560.381	25.8	34.5	452.	1157.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	5	343.	241.6	413.	25.	39616.8	199.04	**	**	**	**
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	2	2.45	2.45	3.52	1.38	2.29	1.513	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	11	14.	30.082	150.	9.9	1680.694	40.996	9.92	10.	35.	127.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	490.	700.	1640.	190.	212622.727	461.11	230.5	370.	1128.75	1547.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	10	9.45	10.37	14.4	8.	4.762	2.182	8.01	8.625	12.025	14.26
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	11	7.1	7.027	7.6	5.8	0.272	0.522	5.92	6.9	7.4	7.58
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	11	7.1	6.63	7.6	5.8	0.446	0.668	5.92	6.9	7.4	7.58
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	11	0.079	0.234	1.585	0.025	0.211	0.46	0.026	0.04	0.126	1.348
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	7.	7.042	7.5	6.5	0.083	0.287	6.56	6.925	7.325	7.47
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	7.	6.955	7.5	6.5	0.091	0.302	6.56	6.925	7.325	7.47
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.1	0.111	0.316	0.032	0.006	0.079	0.034	0.05	0.119	0.281
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	44.5	42.917	63.	16.	209.72	14.482	17.5	32.25	53.75	61.5
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	346.	475.5	1180.	132.	112159.364	334.902	142.2	200.5	800.	1088.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.08	0.078	0.15	0.025	0.002	0.047	0.025	0.025	0.118	0.15
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.003	0.006	0.038	0.001	0.	0.01	0.001	0.001	0.005	0.029
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.41	0.593	1.34	0.1	0.191	0.437	0.124	0.273	0.98	1.334
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.045	0.061	0.18	0.01	0.003	0.055	0.01	0.013	0.098	0.165
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	147.5	216.167	485.	68.	19168.515	138.45	73.4	114.25	347.5	458.
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	12	42.	59.958	152.2	16.8	1528.388	39.095	20.94	33.15	83.675	138.94
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	12	12.1	16.117	50.7	1.2	183.932	13.562	1.68	6.975	23.6	43.38
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	21.5	22.083	48.	5.	198.265	14.081	5.	7.25	33.	45.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	137.5	233.667	645.	54.	33606.788	183.322	64.8	95.	375.	586.5
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	2565.	3680.25	8000.	1500.	6618882.568	2572.719	1590.	1862.5	6562.5	8000.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	11	260.	362.727	680.	160.	35641.818	188.79	160.	220.	500.	672.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	10	930.	1306.	2700.	500.	680804.444	825.109	520.	775.	2100.	2700.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	23	100.	435.217	4100.	5.	874098.246	934.932	5.	12.5	400.	1640.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	23	2.	1.889	3.613	0.699	0.821	0.906	0.699	1.097	2.602	3.142
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			77.456								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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Annual Analysis for 1979 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	22	151.5	206.136	1040.	37.	51848.314	227.702	37.6	48.75	288.	456.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	3	310.	530.667	1065.	217.	216296.333	465.077	**	**	**	**
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	2	3.85	3.85	5.	2.7	2.645	1.626	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	9	7.4	10.156	25.	2.5	55.938	7.479	2.5	4.75	16.5	25.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	10	745.	759.4	1510.	265.	175606.933	419.055	271.5	374.25	1065.	1482.
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	10	6.9	6.98	7.6	6.4	0.113	0.336	6.44	6.8	7.225	7.57
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	10	6.889	6.87	7.6	6.4	0.126	0.356	6.44	6.8	7.225	7.57
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	10	0.129	0.135	0.398	0.025	0.011	0.106	0.028	0.06	0.158	0.374
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	10	53.5	54.2	118.	5.	959.067	30.969	6.5	34.25	68.25	114.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	10	546.	557.6	1094.	180.	103235.156	321.302	183.3	237.75	794.25	1082.7
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	10	0.05	0.063	0.12	0.025	0.001	0.036	0.025	0.025	0.09	0.12
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	10 ##	0.001	0.003	0.018	0.001	0.	0.005	0.001	0.001	0.002	0.017
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	10	0.505	0.451	0.75	0.08	0.059	0.243	0.08	0.2	0.678	0.745
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	10 ##	0.015	0.03	0.1	0.01	0.001	0.03	0.01	0.01	0.045	0.096

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Annual Analysis for 1979 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	10	203.	232.9	382.	96.	14592.544	120.8	96.8	108.5	360.75	380.1
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	10	59.1	66.44	122.	23.7	1338.918	36.591	23.98	30.475	100.65	121.26
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	10	13.5	16.21	34.	7.4	82.572	9.087	7.55	8.9	21.2	33.47
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	9	22.	55.556	350.	5.	12302.028	110.915	5.	10.	32.	350.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	9	250.	258.889	700.	5.	42214.361	205.461	5.	110.	353.5	700.
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	10	1250.	1701.	4850.	500.	1666054.444	1290.757	510.	937.5	2302.5	4635.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	10	280.	279.5	480.	120.	19191.389	138.533	120.5	143.75	405.	474.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	10	800.	840.	1500.	300.	149333.333	386.437	310.	550.	1150.	1480.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	18	52.5	146.806	510.	5.	28371.916	168.44	5.	10.	277.5	465.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	18	1.676	1.695	2.708	0.699	0.581	0.762	0.699	1.	2.443	2.667
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			49.568								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	10	0.	0.5	5.	0.	2.5	1.581	0.	0.	0.	4.5

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Annual Analysis for 1980 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	3	18.	12.333	18.	1.	96.333	9.815	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	18	491.5	1127.833	5990.	29.	3369248.147	1835.551	38.9	106.75	1073.5	5990.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	6	866.	2139.667	8600.	40.	10670639.067	3266.594	**	**	**	**
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	6	4.76	5.108	10.68	1.52	9.892	3.145	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	12	19.	19.458	38.	6.	110.339	10.504	6.15	11.5	27.5	37.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	445.	677.583	1860.	123.	350244.811	591.815	143.1	233.75	1310.75	1734.
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	7.	6.983	7.3	6.4	0.072	0.269	6.52	6.8	7.25	7.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.989	6.899	7.3	6.4	0.08	0.283	6.52	6.8	7.25	7.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.103	0.126	0.398	0.05	0.009	0.096	0.05	0.057	0.158	0.326
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	43.5	48.333	89.	17.	593.697	24.366	18.5	32.	72.25	87.5
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	260.	479.167	1526.	76.	228213.424	477.717	79.6	126.	911.	1386.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.095	0.127	0.5	0.025	0.02	0.141	0.025	0.025	0.15	0.434
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12 ##	0.002	0.005	0.016	0.001	0.	0.005	0.001	0.001	0.008	0.015
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.53	0.611	1.35	0.12	0.159	0.399	0.129	0.248	0.958	1.293
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.04	0.082	0.49	0.01	0.018	0.135	0.01	0.015	0.06	0.391
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	143.5	217.333	600.	65.	30407.879	174.379	66.2	85.	359.75	551.7
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	12	46.4	66.383	187.2	12.	3078.6	55.485	13.8	24.25	116.35	169.44
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	12	9.5	12.775	33.	4.	89.917	9.482	4.3	6.2	17.875	31.8
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	10.	16.917	50.	5.	220.447	14.847	5.	5.	25.5	45.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	150.	282.333	900.	30.	88092.424	296.804	34.5	60.	533.25	843.
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	2860.	4429.167	19400.	880.	27137226.515	5209.34	901.	1412.5	4365.	16301.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	335.	395.833	980.	60.	90990.152	301.646	78.	145.	570.	953.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1150.	1873.333	9300.	590.	5733787.879	2394.533	593.	717.5	1775.	7170.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	15	600.	2025.	15000.	20.	16895596.429	4110.425	26.	50.	880.	10800.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	15	2.778	2.64	4.176	1.301	0.699	0.836	1.407	1.699	2.944	4.012
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			436.316								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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Annual Analysis for 1981 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	5	11.	10.	17.	2.	41.	6.403	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	11	150.	249.818	800.	50.	59852.364	244.647	51.4	66.	459.	750.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	1	1290.	1290.	1290.	1290.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	1	2.44	2.44	2.44	2.44	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	11	7.1	12.464	35.	1.5	125.047	11.182	1.7	5.	22.	33.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	11	495.	557.182	1090.	245.	76330.764	276.28	256.4	352.	630.	1077.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	2	10.35	10.35	10.7	10.	0.245	0.495	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	2	7.3	7.3	7.5	7.1	0.08	0.283	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	2	7.255	7.255	7.5	7.1	0.084	0.29	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	2	0.056	0.056	0.079	0.032	0.001	0.034	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	11	6.9	6.945	7.5	6.4	0.111	0.333	6.44	6.7	7.3	7.46
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	11	6.9	6.836	7.5	6.4	0.124	0.352	6.44	6.7	7.3	7.46
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	11	0.126	0.146	0.398	0.032	0.012	0.108	0.035	0.05	0.2	0.369
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	11	52.	56.818	108.	36.	403.364	20.084	36.8	45.	61.	101.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	11	284.	378.545	764.	198.	40744.073	201.852	200.8	230.	434.	760.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.07	0.064	0.11	0.02	0.001	0.034	0.02	0.02	0.1	0.108
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.002	0.005	0.018	0.001	0.	0.006	0.001	0.001	0.008	0.017
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.52	0.617	1.43	0.03	0.221	0.47	0.036	0.1	0.97	1.392
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	10	0.035	0.04	0.08	0.01	0.001	0.027	0.01	0.018	0.073	0.08
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	11	147.	180.091	400.	93.	7412.091	86.094	97.	133.	220.	369.6
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	10	47.95	54.33	94.7	33.	399.033	19.976	33.7	40.	71.925	93.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	10	10.	11.65	19.6	7.	20.409	4.518	7.1	8.375	15.275	19.55
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	11	18.	23.273	66.	4.	280.018	16.734	4.2	16.	29.	59.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	11	152.	189.273	441.	55.	14414.018	120.058	61.6	100.	230.	426.8
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	11	1320.	1727.273	3570.	770.	758121.818	870.702	804.	1070.	2490.	3364.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	10	190.	215.	400.	100.	8561.111	92.526	102.	157.5	277.5	393.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	10	680.	834.	1390.	400.	151893.333	389.735	404.	485.	1245.	1389.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	8	225.	679.063	2000.	12.5	644364.174	802.723	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	8	2.327	2.439	3.301	1.097	0.535	0.731	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			275.101								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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Annual Analysis for 1982 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	2	16.	16.	25.	7.	162.	12.728	**	**	**	**
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	14	49.	102.143	380.	4.	15728.747	125.414	4.	10.	151.25	349.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	7	24.	106.714	328.	5.	21727.905	147.404	**	**	**	**
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	7	1.35	1.833	3.23	1.03	0.915	0.957	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/78-09/15/82	6	9.	9.083	18.	3.5	28.442	5.333	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	10	1170.	1374.6	3190.	320.	1060121.6	1029.622	325.5	536.25	2089.5	3171.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	5	6.9	7.01	7.3	6.75	0.053	0.23	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	5	6.9	6.964	7.3	6.75	0.056	0.236	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	5	0.126	0.109	0.178	0.05	0.003	0.052	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	11	6.8	6.727	7.2	5.5	0.232	0.482	5.68	6.6	7.1	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	11	6.8	6.356	7.2	5.5	0.384	0.619	5.68	6.6	7.1	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	11	0.158	0.44	3.162	0.063	0.825	0.908	0.063	0.079	0.251	2.609
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	11	56.	50.273	76.	5.	428.018	20.689	10.4	40.	70.	75.2
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	11	1164.	1210.182	2840.	182.	887861.964	942.264	199.6	390.	2344.	2757.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.07	0.075	0.19	0.01	0.003	0.056	0.012	0.02	0.09	0.184
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.004	0.005	0.01	0.001	0.	0.003	0.001	0.001	0.006	0.01
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.17	0.392	0.97	0.02	0.143	0.378	0.024	0.07	0.82	0.966

** - Less than 9 observations ## - Computed with 50% or 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	11	0.02	0.025	0.06	0.01	0.	0.014	0.01	0.02	0.03	0.054
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	11	372.	446.636	1020.	97.	97371.255	312.044	111.4	194.	786.	990.2
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	11	119.	223.145	1149.	30.9	102618.883	320.342	32.12	59.	255.	975.2
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	11	30.	50.864	263.	1.	5374.331	73.31	2.2	13.9	57.	222.18
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	10	27.	42.5	112.	12.	1299.833	36.053	12.3	15.75	66.	110.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	11	600.	624.455	1470.	70.	236728.273	486.547	84.8	195.	1020.	1452.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	11	1160.	1138.182	2060.	360.	285636.364	534.45	380.	670.	1590.	2004.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	11	300.	476.364	1300.	150.	150585.455	388.053	150.	170.	800.	1218.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	10	575.	541.	910.	160.	44054.444	209.892	176.	380.	670.	886.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12 ##	18.75	228.542	2300.	10.	427465.294	653.808	10.	10.625	87.5	1655.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12 ##	1.247	1.552	3.362	1.	0.497	0.705	1.	1.024	1.925	3.006
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			35.648								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	11	0.	0.273	3.	0.	0.818	0.905	0.	0.	0.	2.4
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	5	2.8	5.88	17.1	0.5	44.237	6.651	**	**	**	**

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

Annual Analysis for 1983 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	15	49.	328.4	1730.	10.	236943.543	486.768	13.	17.	653.	1245.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	48.	387.5	2140.	10.	418595.182	646.989	10.9	17.5	555.75	1834.
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	11	1.6	2.692	7.5	1.1	4.553	2.134	1.114	1.27	4.3	7.07
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	13	1118.	1292.769	3350.	205.	1047872.026	1023.656	241.	350.5	2125.	3082.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	7	7.	6.807	7.5	5.5	0.397	0.63	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	7	7.	6.263	7.5	5.5	0.743	0.862	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	7	0.1	0.546	3.162	0.032	1.334	1.155	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	13	6.6	6.562	7.2	6.	0.161	0.401	6.04	6.2	6.85	7.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	13	6.6	6.411	7.2	6.	0.186	0.431	6.04	6.2	6.85	7.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	13	0.251	0.388	1.	0.063	0.096	0.31	0.063	0.142	0.648	0.918
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	13	40.	36.923	66.	11.	262.91	16.215	13.8	23.	49.	62.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	13	812.	1006.154	2706.	160.	696157.141	834.36	167.2	265.	1704.	2472.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.11	0.105	0.25	0.02	0.005	0.072	0.02	0.035	0.155	0.222
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.006	0.01	0.054	0.002	0.	0.014	0.003	0.004	0.009	0.039
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.31	0.405	1.25	0.05	0.117	0.341	0.07	0.125	0.59	1.046
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	13	0.03	0.087	0.68	0.01	0.033	0.182	0.01	0.015	0.045	0.468
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	13	246.	356.923	930.	65.	92819.744	304.663	73.8	130.5	570.	927.6
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	13	83.7	106.392	224.1	20.8	4953.136	70.379	21.88	45.	180.2	215.26
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	13	20.3	24.892	74.	0.1	512.716	22.643	0.66	5.05	38.45	67.2
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	13	37.	38.846	96.	9.	684.641	26.166	9.8	16.5	58.	84.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	13	480.	577.385	1500.	55.	257945.923	507.884	67.	128.	1110.	1406.
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	13	1420.	3473.077	29830.	260.	62991073.077	7936.692	356.	875.	1770.	18670.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	650.	726.667	1610.	80.	271896.97	521.437	116.	230.	1177.5	1514.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	11	800.	1810.	11570.	200.	10699480.	3271.006	212.	400.	1240.	9622.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	13	100.	348.462	2800.	12.5	556546.394	746.02	12.5	50.	275.	1840.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	13	2.	2.063	3.447	1.097	0.414	0.644	1.097	1.637	2.438	3.109
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			115.682								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	13	0.	11.385	60.	0.	350.256	18.715	0.	0.	18.	51.2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	13	8.9	47.954	460.	2.8	15601.914	124.908	3.04	4.45	16.7	302.4

** - 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 FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	11.5	13.542	28.	2.	77.884	8.825	2.45	4.75	20.75	27.1
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	13	204.	329.923	1400.	8.	172296.244	415.086	9.6	16.	570.	1157.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	261.5	392.833	1400.	8.	179979.242	424.24	8.9	34.5	689.75	1235.
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.51	2.962	6.51	1.1	2.724	1.651	1.118	1.633	4.315	5.982
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	507.5	863.333	2370.	240.	464224.242	681.34	265.5	375.	1491.25	2154.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	11	10.2	9.718	13.9	5.8	6.788	2.605	6.08	7.6	12.3	13.72
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	10	6.35	6.43	7.	6.	0.131	0.362	6.	6.15	6.825	6.99
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	10	6.347	6.313	7.	6.	0.146	0.383	6.	6.15	6.825	6.99
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	10	0.45	0.486	1.	0.1	0.11	0.332	0.103	0.15	0.723	1.
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.9	6.717	7.4	4.8	0.531	0.728	5.19	6.45	7.2	7.37
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.855	5.821	7.4	4.8	1.405	1.185	5.19	6.45	7.2	7.37
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.139	1.508	15.849	0.04	20.442	4.521	0.043	0.063	0.361	11.333
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	46.	44.917	66.	3.	272.629	16.511	12.3	38.5	59.	64.2
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	363.	675.167	1964.	139.	395104.879	628.574	142.6	193.	1246.	1843.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.105	0.123	0.34	0.06	0.005	0.073	0.066	0.09	0.118	0.286
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.011	0.016	0.07	0.004	0.	0.018	0.004	0.005	0.018	0.055
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.545	0.428	0.72	0.05	0.061	0.247	0.053	0.133	0.61	0.696
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.05	0.093	0.45	0.01	0.014	0.118	0.016	0.04	0.103	0.354
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	137.	276.583	690.	82.	49346.265	222.14	86.2	109.25	499.	663.
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	12	44.05	75.425	216.8	3.4	4439.248	66.628	10.24	28.85	138.25	199.61
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	12	9.55	19.225	50.4	6.2	255.371	15.98	6.44	7.45	33.1	48.78
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	21.	31.167	106.	11.	743.97	27.276	11.	15.	41.5	90.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	167.	404.	1278.	63.	165726.364	407.095	72.6	117.75	790.75	1170.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1 ##	40.	40.	40.	40.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	2865.	3614.167	17820.	720.	21050735.606	4588.108	807.	1255.	3457.5	13536.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	345.	509.167	1500.	140.	193681.061	440.092	155.	192.5	600.	1425.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1 ##	70.	70.	70.	70.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1555.	2515.833	14800.	510.	15551717.424	3943.567	513.	620.	2365.	11110.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12	1300.	3047.5	20000.	25.	31026006.818	5570.099	32.5	86.25	3275.	15500.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12	3.092	2.845	4.301	1.398	0.824	0.908	1.488	1.926	3.512	4.12
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			699.757								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	12	0.	4.5	54.	0.	243.	15.588	0.	0.	0.	37.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	13.2	54.242	460.	2.4	16537.417	128.598	2.88	5.6	37.	336.1

** - 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 1985 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	10	15.75	13.7	24.	1.	63.567	7.973	1.05	6.375	20.125	23.65
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	12	185.5	155.917	380.	6.	12853.356	113.373	6.	29.	217.5	338.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	194.5	156.75	380.	3.	12924.205	113.685	4.5	29.	217.75	336.5
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.24	2.092	3.09	1.03	0.475	0.689	1.069	1.315	2.635	2.982
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	545.	1069.25	2850.	380.	925005.841	961.772	383.	397.75	1931.25	2820.
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	10	6.85	6.29	7.	3.6	1.297	1.139	3.74	5.825	7.	7.
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	10	6.825	4.58	7.	3.6	4.545	2.132	3.74	5.825	7.	7.
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	10	0.15	26.3	251.189	0.1	6253.302	79.078	0.1	0.1	3.096	227.07
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.55	6.192	7.	3.6	0.99	0.995	3.96	6.2	6.8	6.94
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.547	4.648	7.	3.6	3.591	1.895	3.96	6.2	6.8	6.94
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.284	22.508	251.189	0.1	5206.278	72.155	0.118	0.158	0.631	180.587
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	11	48.	43.091	74.	2.	425.091	20.618	4.4	30.	54.	71.6
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	400.	848.333	2356.	280.	663042.788	814.274	282.4	292.	1518.	2348.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.05	0.062	0.15	0.02	0.002	0.04	0.02	0.033	0.078	0.141

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

Annual Analysis for 1985 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.006	0.006	0.01	0.002	0.	0.002	0.003	0.004	0.008	0.009
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.31	0.368	0.78	0.02	0.076	0.276	0.035	0.113	0.638	0.747
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.05	0.053	0.11	0.02	0.001	0.026	0.02	0.033	0.068	0.101
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	170.5	356.083	1120.	121.	119482.811	345.663	123.1	138.	636.75	1040.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	12	40.	79.633	389.8	3.9	11757.035	108.43	8.88	33.1	65.65	330.31
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	12	11.65	22.675	67.3	0.5	548.538	23.421	2.81	9.175	45.75	64.93
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	20.	32.833	101.	13.	706.333	26.577	13.3	16.5	48.5	88.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	192.5	515.083	1612.	112.	315210.811	561.436	115.9	133.	996.75	1563.4
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	1635.	1955.833	5400.	1060.	1291535.606	1136.457	1120.	1435.	2050.	4449.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	325.	890.833	3700.	160.	1144917.424	1070.008	181.	247.5	1440.	3193.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	2	175.	175.	210.	140.	2450.	49.497	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	2	265.	265.	350.	180.	14450.	120.208	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1665.	1989.167	5900.	620.	2425281.061	1557.331	623.	642.5	2950.	5138.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12	200.	180.	500.	10.	20890.909	144.537	10.	50.	262.5	440.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	12	2.301	2.029	2.699	1.	0.321	0.566	1.	1.699	2.419	2.632
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			106.934								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	12	0.	15.333	136.	0.	1565.333	39.564	0.	0.	7.5	106.6
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	11.	19.475	83.	6.9	461.613	21.485	7.14	8.625	24.8	67.4

** - 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 1986 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	11	20.	18.091	26.	8.	35.091	5.924	8.6	13.	24.	25.6
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	18	86.	170.833	1370.	5.	98393.794	313.678	14.9	17.	187.	399.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	63.	187.917	1330.	5.	135040.992	367.479	8.	19.	178.75	999.1
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	1.905	2.179	5.75	1.11	1.55	1.245	1.173	1.365	2.488	4.853
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	13	934.	1080.846	2610.	255.	504212.308	710.079	301.	512.5	1496.	2406.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	6	8.7	9.133	11.1	8.1	1.275	1.129	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	11	6.8	6.705	7.7	5.4	0.308	0.555	5.6	6.5	6.9	7.56
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	11	6.8	6.275	7.7	5.4	0.512	0.715	5.6	6.5	6.9	7.56
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	11	0.158	0.531	3.981	0.02	1.322	1.15	0.036	0.126	0.316	3.264
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	13	6.3	6.469	7.7	5.7	0.247	0.497	5.86	6.2	6.8	7.38
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	13	6.3	6.275	7.7	5.7	0.288	0.537	5.86	6.2	6.8	7.38
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	13	0.501	0.531	1.995	0.02	0.252	0.502	0.062	0.158	0.631	1.515
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	13	54.	57.846	108.	8.	668.308	25.852	16.8	42.	77.	98.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	13	672.	848.462	2216.	162.	365535.436	604.595	216.4	376.	1220.	1981.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.05	0.056	0.1	0.02	0.	0.02	0.024	0.05	0.07	0.088
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.004	0.005	0.012	0.002	0.	0.003	0.002	0.003	0.007	0.011
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.15	0.317	1.07	0.02	0.116	0.34	0.02	0.035	0.525	0.974
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	13	0.05	0.055	0.15	0.02	0.001	0.034	0.02	0.035	0.065	0.122
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	13	232.	323.769	720.	84.	39426.192	198.56	102.4	177.5	472.5	666.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	13	70.8	96.485	252.7	25.4	4368.905	66.098	29.36	44.65	145.5	215.38
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	13	17.5	22.677	60.1	6.9	227.657	15.088	7.14	11.65	31.3	51.54
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	13	33.	43.538	106.	10.	1091.436	33.037	12.4	18.5	75.5	100.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	13	309.	473.615	1250.	72.	142423.256	377.39	93.2	174.	739.5	1170.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	2 ##	42.5	42.5	60.	25.	612.5	24.749	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	13	1210.	1258.462	2060.	790.	173897.436	417.01	794.	855.	1520.	2004.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	2 ##	3.	3.	4.	2.	2.	1.414	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	410.	498.333	1210.	160.	98487.879	313.828	172.	232.5	722.5	1099.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	2 ##	47.5	47.5	70.	25.	1012.5	31.82	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	2	85.	85.	110.	60.	1250.	35.355	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	875.	977.5	1740.	500.	167820.455	409.659	515.	645.	1250.	1713.

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Annual Analysis for 1986 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	16	90.	318.125	1100.	10.	155989.583	394.955	10.	20.	750.	960.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	16	1.952	2.016	3.041	1.	0.576	0.759	1.	1.301	2.872	2.98
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			103.646								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	13	0.	2.923	38.	0.	111.077	10.539	0.	0.	0.	22.8
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	13	11.1	12.746	37.	2.4	115.473	10.746	2.96	4.4	15.35	35.

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Annual Analysis for 1987 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	12.	13.175	28.5	1.	95.14	9.754	1.3	4.275	22.75	27.45
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	26	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	26	89.	131.808	446.	6.	19162.002	138.427	6.	9.25	217.5	345.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	105.	140.333	391.	6.	17328.606	131.638	6.3	11.	269.	362.2
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.115	2.151	3.58	1.13	0.706	0.841	1.139	1.253	2.958	3.436
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	700.	1102.25	2300.	385.	554827.114	744.867	389.5	443.75	1916.25	2240.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	12	10.15	10.275	13.3	8.	3.362	1.834	8.	8.45	11.925	13.06
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.45	7.367	8.3	6.6	0.272	0.521	6.63	6.825	7.7	8.18
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.447	7.108	8.3	6.6	0.344	0.587	6.63	6.825	7.7	8.18
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.036	0.078	0.251	0.005	0.007	0.084	0.007	0.02	0.15	0.236
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.7	6.733	7.6	6.	0.186	0.431	6.09	6.525	6.875	7.54
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.7	6.565	7.6	6.	0.217	0.466	6.09	6.525	6.875	7.54
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.2	0.272	1.	0.025	0.068	0.261	0.03	0.134	0.3	0.85
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	56.	55.833	114.	20.	563.242	23.733	23.	40.	64.	102.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	471.	832.833	1896.	258.	386801.061	621.933	263.4	328.5	1513.5	1831.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.08	0.079	0.12	0.03	0.001	0.026	0.036	0.06	0.1	0.114
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.004	0.006	0.012	0.002	0.	0.003	0.002	0.003	0.009	0.011
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.34	0.342	0.67	0.02	0.048	0.22	0.026	0.17	0.518	0.667
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.045	0.061	0.16	0.01	0.002	0.044	0.016	0.03	0.093	0.145
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	183.	303.083	642.	121.	43630.447	208.879	121.	133.25	548.	628.8
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	12	53.35	78.892	164.3	33.4	2444.015	49.437	33.91	38.65	122.775	163.4
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	12	13.9	25.117	57.2	9.1	364.365	19.088	9.1	10.2	47.6	54.92
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	12	31.	45.25	97.	11.	1151.477	33.933	11.	15.5	82.5	97.
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	244.5	467.333	1162.	120.	161366.424	401.704	121.8	134.5	868.25	1134.1
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	13	3130.	3070.769	5480.	1090.	2640774.359	1625.046	1178.	1535.	4670.	5444.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	320.	576.667	1270.	170.	201187.879	448.54	176.	200.	1097.5	1267.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	775.	1516.667	3950.	170.	1910424.242	1382.181	173.	362.5	2935.	3782.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	24	95.	486.042	2700.	10.	544919.52	738.187	10.	31.25	862.5	1800.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	24	1.977	2.108	3.431	1.	0.627	0.792	1.	1.473	2.928	3.255
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			128.327								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/14/82-12/03/87	12	21.5	22.808	48.	0.5	282.083	16.795	2.12	6.575	37.	47.4

** - 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 1988 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	8.55	11.758	26.	1.	94.01	9.696	1.15	2.125	21.625	25.7
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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

Annual Analysis for 1988 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	14	61.5	99.357	259.	8.	9584.709	97.902	8.	17.5	186.5	256.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	32.5	88.75	260.	8.	9019.477	94.971	8.3	16.25	169.5	253.7
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	1.5	1.828	2.85	1.13	0.457	0.676	1.133	1.305	2.635	2.82
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	2	790.	790.	1100.	480.	192200.	438.406	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	9	1360.	1286.333	2130.	330.	403853.5	635.495	330.	653.5	1826.	2130.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	11	10.6	10.682	13.7	7.6	4.92	2.218	7.66	8.5	12.5	13.66
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.1	7.042	7.6	5.1	0.448	0.669	5.61	7.	7.55	7.6
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.1	6.138	7.6	5.1	1.34	1.157	5.61	7.	7.55	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.079	0.728	7.943	0.025	5.164	2.273	0.025	0.029	0.1	5.608
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.8	6.65	7.1	5.	0.319	0.565	5.36	6.7	6.9	7.07
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.8	5.998	7.1	5.	0.783	0.885	5.36	6.7	6.9	7.07
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.158	1.005	10.	0.079	8.045	2.836	0.086	0.126	0.2	7.189
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	66.	59.833	100.	4.	749.424	27.376	7.6	50.5	79.5	94.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	12	8.	8.75	18.	1.	40.023	6.326	1.	1.75	14.	17.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.075	0.076	0.13	0.03	0.001	0.036	0.033	0.04	0.108	0.127
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.004	0.004	0.008	0.002	0.	0.002	0.002	0.002	0.006	0.008
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.23	0.328	0.89	0.02	0.072	0.269	0.032	0.12	0.568	0.809
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.04	0.05	0.11	0.01	0.001	0.029	0.016	0.033	0.073	0.104
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.35	2.392	3.3	1.6	0.268	0.518	1.63	2.025	2.7	3.24
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	250.5	327.583	727.	89.	51871.538	227.753	101.6	143.5	479.5	726.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	478.5	587.167	1306.	124.	195972.152	442.687	133.9	165.	1023.25	1286.5
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	5.	7.333	16.	5.	18.606	4.313	5.	5.	10.25	15.7
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	1215.	1347.667	2650.	833.	361272.97	601.06	834.2	906.25	1427.5	2584.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	2.	4.667	20.	2.	29.152	5.399	2.	2.	5.	17.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	362.5	552.667	1570.	126.	222242.606	471.426	130.5	185.5	895.25	1462.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12	35.5	39.583	94.	12.5	747.811	27.346	12.5	12.5	61.5	88.
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	24.	35.25	123.	5.	1264.386	35.558	5.	6.5	60.75	107.1
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1042.	1081.167	2520.	441.	288538.152	537.157	479.1	725.5	1242.5	2178.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	2	350.	350.	400.	300.	5000.	70.711	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	2	2.54	2.54	2.602	2.477	0.008	0.088	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			346.41								

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Annual Analysis for 1989 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	10.5	12.15	22.5	2.8	55.423	7.445	2.86	5.925	21.2	22.5
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	14	133.	251.	869.	24.	65001.692	254.954	27.5	75.25	431.75	753.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	11	209.	293.909	886.	28.	80699.691	284.077	28.8	69.	475.	841.8
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.21	2.672	4.9	1.4	1.42	1.192	1.409	1.788	3.73	4.747
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	410.	508.333	1300.	140.	167233.333	408.942	149.	185.	687.5	1300.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	11	530.	636.364	1260.	230.	128980.655	359.139	234.8	260.	970.	1237.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	12	10.35	10.708	12.8	7.7	2.399	1.549	8.12	9.725	12.3	12.71
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.2	7.392	8.2	6.9	0.152	0.39	6.96	7.1	7.675	8.11
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.2	7.267	8.2	6.9	0.169	0.411	6.96	7.1	7.675	8.11
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.063	0.054	0.126	0.006	0.001	0.035	0.008	0.021	0.079	0.112
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	11	7.5	7.418	7.8	6.6	0.164	0.405	6.62	7.4	7.7	7.8
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	11	7.5	7.199	7.8	6.6	0.216	0.465	6.62	7.4	7.7	7.8
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	11	0.032	0.063	0.251	0.016	0.007	0.081	0.016	0.02	0.04	0.241
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	11	70.	66.909	110.	36.	444.291	21.078	37.2	42.	78.	104.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	11	14.	14.	24.	2.	58.4	7.642	2.	8.	20.	24.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.03	0.036	0.08	0.01	0.001	0.023	0.01	0.02	0.06	0.076
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11 ##	0.002	0.003	0.006	0.002	0.	0.002	0.002	0.002	0.004	0.006
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	11	0.22	0.248	0.68	0.04	0.038	0.195	0.046	0.07	0.37	0.636
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	11	0.04	0.036	0.05	0.01	0.	0.01	0.014	0.03	0.04	0.048

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Annual Analysis for 1989 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	11	2.2	2.318	3.2	1.8	0.22	0.469	1.8	1.9	2.6	3.16
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	11	185.	207.545	396.	91.	10358.873	101.779	92.6	108.	260.	389.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	11	236.	278.364	617.	84.	35467.255	188.328	85.	110.	367.	613.4
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	5.	5.5	11.	5.	3.	1.732	5.	5.	5.	9.2
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	1400.	1460.917	2270.	705.	250030.083	500.03	720.3	1112.5	1947.5	2207.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	2.	2.417	5.	2.	0.992	0.996	2.	2.	2.	4.7
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	209.5	295.083	811.	81.	46040.265	214.57	88.8	140.	427.75	730.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12 ##	12.5	19.625	55.	12.5	199.415	14.121	12.5	12.5	24.125	50.5
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	23.5	71.75	620.	5.	30065.295	173.393	5.	5.	39.	450.2
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1074.	1032.167	1500.	377.	138874.515	372.659	387.8	838.25	1362.5	1488.

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Annual Analysis for 1990 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	13.05	12.783	25.	2.	49.031	7.002	2.6	6.125	18.25	23.74
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	12	249.5	419.333	1450.	32.	178261.152	422.21	46.1	127.25	546.5	1312.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	250.	420.417	1400.	32.	173102.265	416.056	46.4	128.25	571.25	1286.
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.805	3.203	5.86	1.5	1.84	1.356	1.611	2.145	4.085	5.656
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	11	330.	443.636	1400.	140.	132825.455	364.452	140.	210.	650.	1256.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	343.	471.333	1230.	200.	82489.879	287.211	200.6	312.75	602.	1069.2
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	12	9.95	10.133	12.1	7.6	2.406	1.551	7.66	9.025	11.725	12.07
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.3	7.267	7.9	6.4	0.206	0.454	6.49	6.95	7.7	7.87
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.289	7.041	7.9	6.4	0.262	0.512	6.49	6.95	7.7	7.87
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.051	0.091	0.398	0.013	0.012	0.11	0.014	0.022	0.114	0.339
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	7.4	7.35	7.8	6.7	0.106	0.326	6.76	7.125	7.6	7.77
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	7.4	7.226	7.8	6.7	0.123	0.351	6.76	7.125	7.6	7.77
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.04	0.059	0.2	0.016	0.003	0.054	0.017	0.025	0.075	0.177
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	68.	68.	116.	36.	485.818	22.041	36.6	56.	77.5	108.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	4	248.	293.	514.	162.	23361.333	152.844	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	8	29.	28.	62.	2.	576.	24.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.045	0.04	0.07	0.01	0.	0.02	0.013	0.02	0.058	0.067
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.006	0.007	0.022	0.002	0.	0.005	0.002	0.004	0.008	0.018
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.385	0.522	1.24	0.02	0.181	0.426	0.053	0.188	0.975	1.21
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.04	0.045	0.09	0.03	0.	0.02	0.03	0.03	0.05	0.087
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.55	2.933	7.2	2.	1.884	1.373	2.06	2.35	2.875	5.91
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	121.	152.5	345.	78.	5333.	73.027	85.2	103.5	191.5	300.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	122.	168.25	380.	60.	9448.205	97.202	65.4	96.	245.25	347.9
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12	16.	16.083	35.	5.	99.356	9.968	5.	5.	24.25	32.6
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	972.5	1338.667	3100.	720.	605318.424	778.022	758.1	887.5	1597.5	2983.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	2.	2.583	7.	2.	2.265	1.505	2.	2.	2.	6.1
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	171.5	180.583	443.	84.	8313.356	91.178	88.2	134.	199.	372.2
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12 ##	12.5	19.333	35.	12.5	102.606	10.129	12.5	12.5	32.5	34.4
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	22.	28.083	93.	5.	573.356	23.945	6.5	11.25	40.	78.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	738.	1056.417	2480.	575.	414463.538	643.788	583.4	630.	1247.5	2399.

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Annual Analysis for 1991 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	13	12.2	13.492	26.	1.7	77.919	8.827	2.14	4.55	23.45	25.24
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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Annual Analysis for 1991 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	13	18.	195.846	761.	5.	72681.308	269.595	6.6	10.	351.5	736.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	77.5	211.75	762.	5.	77654.568	278.666	5.6	9.5	386.	747.
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	1.76	2.289	4.48	1.11	1.585	1.259	1.134	1.25	3.235	4.438
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	1400.	1564.167	3600.	220.	1580208.333	1257.063	223.	315.	2700.	3345.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	13	1793.	1934.308	4878.	297.	2497410.064	1580.32	305.8	467.	3111.	4705.6
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	13	10.	9.892	12.5	7.	3.352	1.831	7.16	8.35	11.6	12.42
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	13	7.2	7.16	7.6	6.5	0.125	0.354	6.58	6.9	7.5	7.56
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	13	7.2	7.021	7.6	6.5	0.146	0.382	6.58	6.9	7.5	7.56
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	13	0.063	0.095	0.316	0.025	0.007	0.086	0.028	0.032	0.129	0.27
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	13	7.1	7.008	7.6	6.1	0.162	0.403	6.3	6.75	7.3	7.52
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	13	7.1	6.805	7.6	6.1	0.207	0.455	6.3	6.75	7.3	7.52
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	13	0.079	0.157	0.794	0.025	0.041	0.204	0.031	0.05	0.179	0.577
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	13	48.	50.692	84.	11.	320.231	17.895	21.	41.	61.	78.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	13	1366.	1595.231	4274.	230.	1955635.026	1398.44	232.4	328.	2675.	4079.6
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.065	0.095	0.28	0.02	0.006	0.078	0.02	0.05	0.128	0.256
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.004	0.009	0.044	0.002	0.	0.011	0.002	0.004	0.01	0.033
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	13	0.23	0.405	1.42	0.02	0.158	0.398	0.02	0.1	0.64	1.132
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	13	0.03	0.029	0.05	0.01	0.	0.013	0.014	0.02	0.04	0.05
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	13	2.	2.262	4.9	1.6	0.759	0.871	1.6	1.75	2.45	4.06
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	13	516.	572.462	1460.	115.	219045.436	468.023	115.8	151.5	967.	1383.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	13	881.	1022.615	2867.	102.	907030.923	952.382	105.2	167.	1805.5	2707.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	13	13.	32.462	240.	5.	4011.936	63.34	5.	5.	31.5	158.8
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	13	1070.	1023.923	1530.	487.	141170.244	375.726	501.4	642.	1350.	1506.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	13 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	13	762.	649.615	1510.	128.	225131.923	474.481	136.4	190.5	990.5	1414.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	13	51.	48.269	98.	12.5	1232.942	35.113	12.5	12.5	84.5	97.6
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	13	48.	45.462	110.	5.	1397.269	37.38	5.	8.5	74.5	106.8
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	13	1090.	1090.462	1820.	348.	207482.936	455.503	390.4	802.	1395.	1812.

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Annual Analysis for 1992 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	14.1	12.475	21.9	0.9	56.184	7.496	0.93	6.275	19.15	21.18
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	12	57.	115.083	330.	10.	14784.992	121.594	10.6	23.75	254.	320.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	56.5	103.417	277.	10.	10443.902	102.195	10.3	24.	206.75	275.5
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	1.79	1.983	3.02	1.21	0.444	0.666	1.228	1.438	2.713	3.008
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	600.	882.5	2500.	300.	427402.273	653.76	318.	380.	1287.5	2200.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	896.	1063.167	2818.	491.	447448.879	668.916	493.1	517.25	1355.25	2453.8
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	12	9.85	9.975	13.	8.	2.557	1.599	8.09	8.525	11.325	12.7
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.4	7.367	7.7	6.8	0.081	0.284	6.86	7.2	7.6	7.7
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.389	7.274	7.7	6.8	0.09	0.3	6.86	7.2	7.6	7.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.041	0.053	0.158	0.02	0.002	0.041	0.02	0.025	0.063	0.141
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	7.4	7.25	7.6	6.4	0.177	0.421	6.46	6.9	7.6	7.6
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	7.4	7.025	7.6	6.4	0.232	0.482	6.46	6.9	7.6	7.6
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.04	0.094	0.398	0.025	0.014	0.118	0.025	0.025	0.135	0.354
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	70.	71.167	96.	48.	274.515	16.568	48.6	57.	89.	94.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	620.5	786.25	2388.	296.	354526.568	595.421	303.2	355.5	1057.	2047.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	7	8.	8.571	22.	1.	50.619	7.115	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.04	0.043	0.15	0.01	0.001	0.037	0.013	0.02	0.05	0.123
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.004	0.005	0.01	0.002	0.	0.002	0.002	0.003	0.006	0.009
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.21	0.264	0.73	0.07	0.043	0.208	0.076	0.103	0.375	0.682
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.02	0.023	0.03	0.01	0.	0.007	0.013	0.02	0.03	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.1	2.242	3.6	1.6	0.312	0.558	1.63	1.85	2.6	3.36
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	225.5	291.75	819.	140.	38362.568	195.864	140.3	149.	342.25	713.4

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Annual Analysis for 1992 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	319.5	456.667	1572.	152.	163743.152	404.652	156.5	172.75	564.25	1339.8
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	8.5	10.	18.	5.	30.182	5.494	5.	5.	15.75	17.7
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	811.5	806.5	1230.	540.	30564.818	174.828	571.5	673.5	881.5	1142.7
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	208.	328.	983.	111.	64517.455	254.003	122.4	162.	442.5	864.2
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12	25.	28.375	69.	12.5	331.597	18.21	12.5	12.5	40.	63.3
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	20.5	26.833	65.	13.	275.97	16.612	13.3	14.	36.5	60.8
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	660.5	713.75	1390.	445.	68577.477	261.873	453.1	494.	843.25	1243.3

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Annual Analysis for 1993 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	10.	12.242	25.	0.2	62.083	7.879	1.4	5.375	20.1	23.8
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	13	109.	216.154	1100.	7.	93618.141	305.971	7.8	13.	281.5	868.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	12	139.5	226.917	1120.	6.	98612.992	314.027	6.9	11.75	307.	917.2
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.305	2.428	5.37	1.16	1.526	1.235	1.181	1.293	3.113	4.839
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	385.	772.5	1850.	190.	394965.909	628.463	211.	287.5	1325.	1835.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	565.	953.5	2097.	177.	485362.091	696.679	211.8	420.	1693.25	2042.7
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	12	10.25	10.125	13.8	6.5	4.378	2.092	6.89	8.175	11.725	13.41
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	11	7.3	6.982	7.6	5.5	0.462	0.679	5.6	6.5	7.4	7.58
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	11	7.3	6.356	7.6	5.5	0.893	0.945	5.6	6.5	7.4	7.58
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	11	0.05	0.441	3.162	0.025	0.898	0.948	0.026	0.04	0.316	2.73
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.95	6.725	7.5	5.3	0.382	0.618	5.54	6.25	7.1	7.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.947	6.201	7.5	5.3	0.682	0.826	5.54	6.25	7.1	7.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.113	0.63	5.012	0.032	1.965	1.402	0.037	0.079	0.573	3.747
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	62.	49.917	92.	4.	836.083	28.915	6.1	20.	70.	87.2
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	372.5	716.167	1727.	208.	308304.333	555.252	208.9	286.	1232.25	1655.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	12	13.	18.5	62.	2.	309.545	17.594	2.6	6.	24.	56.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.055	0.054	0.1	0.01	0.001	0.025	0.013	0.035	0.07	0.094
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.004	0.006	0.02	0.002	0.	0.005	0.002	0.003	0.008	0.017
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.26	0.274	0.61	0.02	0.036	0.19	0.032	0.115	0.393	0.589
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.03	0.038	0.1	0.02	0.001	0.025	0.02	0.02	0.048	0.091
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.2	2.3	3.7	1.6	0.32	0.566	1.66	1.85	2.625	3.43
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	168.5	274.833	569.	59.	37068.152	192.531	68.6	123.25	461.25	568.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	186.	378.417	895.	64.	100888.629	317.63	68.5	130.	723.	872.8
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	5.	7.75	16.	5.	17.477	4.181	5.	5.	12.	15.1
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	1190.	1595.5	6250.	646.	2340108.273	1529.741	666.1	784.25	1467.5	5053.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	310.5	463.167	1190.	115.	151037.061	388.635	117.4	193.5	784.	1175.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12 ##	12.5	22.792	59.	12.5	230.748	15.19	12.5	12.5	31.	53.9
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	37.	42.333	103.	5.	988.97	31.448	6.5	15.75	70.75	95.8
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1085.	1448.333	4540.	479.	1161703.697	1077.824	579.8	970.5	1612.5	3871.

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Annual Analysis for 1994 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	11.5	12.425	23.8	2.	58.597	7.655	2.	7.125	20.5	23.56
00057p	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	11	31.	310.727	1740.	10.	270708.418	520.296	12.	20.	481.	1516.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	11	29.	352.091	1940.	9.	337113.291	580.615	11.2	23.	568.	1677.4

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Annual Analysis for 1994 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	1.845	2.854	6.55	1.21	3.147	1.774	1.276	1.445	4.17	6.067
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	480.	797.5	1800.	150.	439565.909	662.998	153.	190.	1500.	1710.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	714.5	1052.25	2541.	221.	694857.659	833.581	224.3	356.	1747.5	2446.2
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	11	10.	9.973	12.5	6.8	3.172	1.781	7.	8.7	11.2	12.5
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.2	7.217	7.6	6.8	0.056	0.237	6.83	7.1	7.3	7.6
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.2	7.158	7.6	6.8	0.06	0.244	6.83	7.1	7.3	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.063	0.069	0.158	0.025	0.001	0.039	0.025	0.05	0.079	0.149
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.7	6.8	7.6	6.3	0.133	0.364	6.36	6.6	6.875	7.54
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.7	6.694	7.6	6.3	0.145	0.381	6.36	6.6	6.875	7.54
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.2	0.202	0.501	0.025	0.016	0.126	0.03	0.134	0.251	0.446
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	63.	63.667	114.	26.	579.515	24.073	29.	46.5	79.5	103.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	458.	798.167	1960.	164.	472428.697	687.334	168.2	213.5	1382.	1921.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	12	7.	17.75	120.	1.	1090.386	33.021	1.	1.75	15.	91.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.025	0.028	0.07	0.01	0.	0.02	0.01	0.01	0.04	0.064
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.006	0.007	0.02	0.002	0.	0.005	0.002	0.004	0.011	0.018
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.205	0.279	0.66	0.02	0.058	0.241	0.02	0.05	0.535	0.639
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.03	0.044	0.15	0.01	0.001	0.038	0.013	0.02	0.055	0.129
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.35	2.383	3.2	1.6	0.303	0.551	1.66	1.925	3.	3.17
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	178.	276.083	624.	69.	44747.538	211.536	71.1	107.	514.5	602.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	228.5	439.	1080.	61.	159936.	399.92	63.1	92.75	814.5	1056.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	5.	6.583	19.	5.	17.356	4.166	5.	5.	5.	16.3
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	1180.	1572.083	7010.	482.	3120870.447	1766.599	529.7	680.25	1412.5	5504.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	1.5	1.542	5.	0.5	1.703	1.305	0.5	0.5	2.	4.1
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	262.	352.75	1000.	74.	71298.205	267.017	97.7	159.25	447.75	912.4
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12 ##	12.5	24.25	56.	12.5	309.659	17.597	12.5	12.5	44.75	53.
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	30.5	33.917	74.	5.	480.265	21.915	6.8	16.	54.25	69.5
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	1145.	1502.25	5710.	471.	1902700.568	1379.384	583.2	910.75	1320.	4627.

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Annual Analysis for 1995 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	12.75	11.692	25.8	0.5	64.648	8.04	1.01	4.25	17.5	24.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	11	248.	204.909	647.	3.	45749.291	213.891	4.	13.	344.	600.8
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	12	2.89	2.398	3.51	1.04	1.079	1.039	1.082	1.298	3.328	3.477
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	490.	863.333	2350.	210.	551315.152	742.506	213.	260.	1475.	2215.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	818.	1247.667	3280.	334.	1086504.97	1042.355	338.5	376.75	1875.75	3180.4
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	12	10.	9.917	12.5	7.	3.856	1.964	7.06	7.975	11.95	12.35
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.25	6.992	7.6	4.2	0.864	0.93	4.95	6.9	7.5	7.6
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.225	5.274	7.6	4.2	4.084	2.021	4.95	6.9	7.5	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.06	5.325	63.096	0.025	330.991	18.193	0.025	0.032	0.126	44.227
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	7.	6.767	7.6	4.1	0.77	0.877	4.88	6.725	7.175	7.48
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	7.	5.172	7.6	4.1	3.542	1.882	4.88	6.725	7.175	7.48
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.1	6.723	79.433	0.025	524.301	22.898	0.037	0.067	0.189	55.663
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	62.	58.167	92.	0.	579.242	24.067	12.	44.	76.	88.4
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	638.	1017.167	2768.	192.	879208.333	937.661	201.6	243.5	1527.5	2745.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	12	14.	20.167	80.	2.	473.788	21.767	2.	6.5	25.	68.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.02	0.048	0.23	0.01	0.004	0.064	0.01	0.01	0.068	0.191
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.005	0.008	0.018	0.002	0.	0.006	0.002	0.003	0.016	0.017
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.175	0.336	1.61	0.11	0.176	0.42	0.11	0.123	0.385	1.271
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.04	0.043	0.07	0.02	0.	0.016	0.023	0.03	0.05	0.07
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.25	2.417	3.6	1.8	0.371	0.609	1.83	1.9	2.725	3.57
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	192.	379.5	1184.	94.	131955.182	363.256	94.6	113.5	530.	1118.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	161.	511.25	1753.	84.	356154.932	596.787	84.9	94.75	845.25	1687.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	5.	7.833	19.	5.	27.242	5.219	5.	5.	12.5	17.8
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	913.5	1008.583	2540.	410.	375554.811	612.825	442.1	586.25	1067.5	2324.

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Annual Analysis for 1995 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	0.5	0.958	4.	0.5	1.112	1.054	0.5	0.5	0.875	3.4
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	155.	393.917	1660.	72.	219837.902	468.869	74.1	94.	632.25	1395.7
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12 ##	12.5	26.083	93.	12.5	613.902	24.777	12.5	12.5	34.5	80.7
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	26.	35.167	163.	5.	1857.061	43.094	5.	10.25	44.25	129.1
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	822.	1106.333	4470.	454.	1198155.515	1094.603	462.1	531.5	1182.5	3495.

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Annual Analysis for 1996 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	12	9.25	11.375	22.	1.	58.915	7.676	1.9	5.125	20.5	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	9	505.	603.556	1610.	26.	290934.278	539.383	26.	104.5	1031.5	1610.
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	9	3.8	3.728	6.13	1.46	2.6	1.612	1.46	2.09	5.16	6.13
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	12	225.	411.667	1600.	140.	179142.424	423.252	143.	192.5	527.5	1360.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	12	403.5	560.583	1746.	259.	175154.992	418.515	265.	302.25	672.75	1490.4
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	11	9.4	9.973	13.4	7.6	4.484	2.118	7.6	7.9	12.	13.2
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.2	7.25	7.5	7.	0.023	0.151	7.03	7.125	7.4	7.47
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	12	7.2	7.226	7.5	7.	0.023	0.153	7.03	7.125	7.4	7.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	12	0.063	0.059	0.1	0.032	0.	0.02	0.034	0.04	0.075	0.094
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	12	6.85	6.833	7.1	6.6	0.022	0.15	6.6	6.725	6.9	7.07
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	12	6.847	6.81	7.1	6.6	0.023	0.152	6.6	6.725	6.9	7.07
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	12	0.142	0.155	0.251	0.079	0.003	0.054	0.086	0.126	0.189	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	12	62.	64.167	88.	36.	306.515	17.508	37.2	52.5	82.	86.8
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	12	267.	424.583	1492.	205.	132277.174	363.699	210.1	240.5	526.	1234.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	12	10.5	17.75	92.	1.	721.841	26.867	1.	1.	17.5	78.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.03	0.033	0.07	0.01	0.	0.021	0.01	0.013	0.04	0.07
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.007	0.008	0.018	0.002	0.	0.004	0.003	0.005	0.01	0.016
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	12	0.42	0.453	0.94	0.09	0.075	0.274	0.12	0.22	0.668	0.919
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	12	0.025	0.034	0.1	0.01	0.001	0.027	0.01	0.013	0.048	0.091
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	12	2.2	2.233	3.7	1.3	0.473	0.688	1.33	1.8	2.475	3.55
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	12	118.5	161.667	504.	84.	14038.424	118.484	84.6	91.75	186.	426.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	12	118.5	190.5	745.	57.	36892.091	192.073	59.7	83.	235.75	618.7
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	12 ##	5.	7.917	33.	5.	66.447	8.152	5.	5.	5.	26.7
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	12	978.	1947.5	7110.	372.	5188044.636	2277.728	434.7	693.75	1915.	6876.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	12 ##	0.5	1.625	6.	0.5	3.278	1.811	0.5	0.5	2.75	5.4
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	12	142.5	210.417	486.	88.	18743.356	136.906	90.4	107.	337.25	459.9
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	12 ##	12.5	17.042	39.	12.5	77.384	8.797	12.5	12.5	21.875	35.7
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	12	18.5	32.	94.	5.	984.909	31.383	5.	6.25	54.	91.6
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	12	980.	1652.583	5250.	556.	2644980.447	1626.34	557.8	700.25	1745.	5121.

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Annual Analysis for 1997 - Station FRHI0096

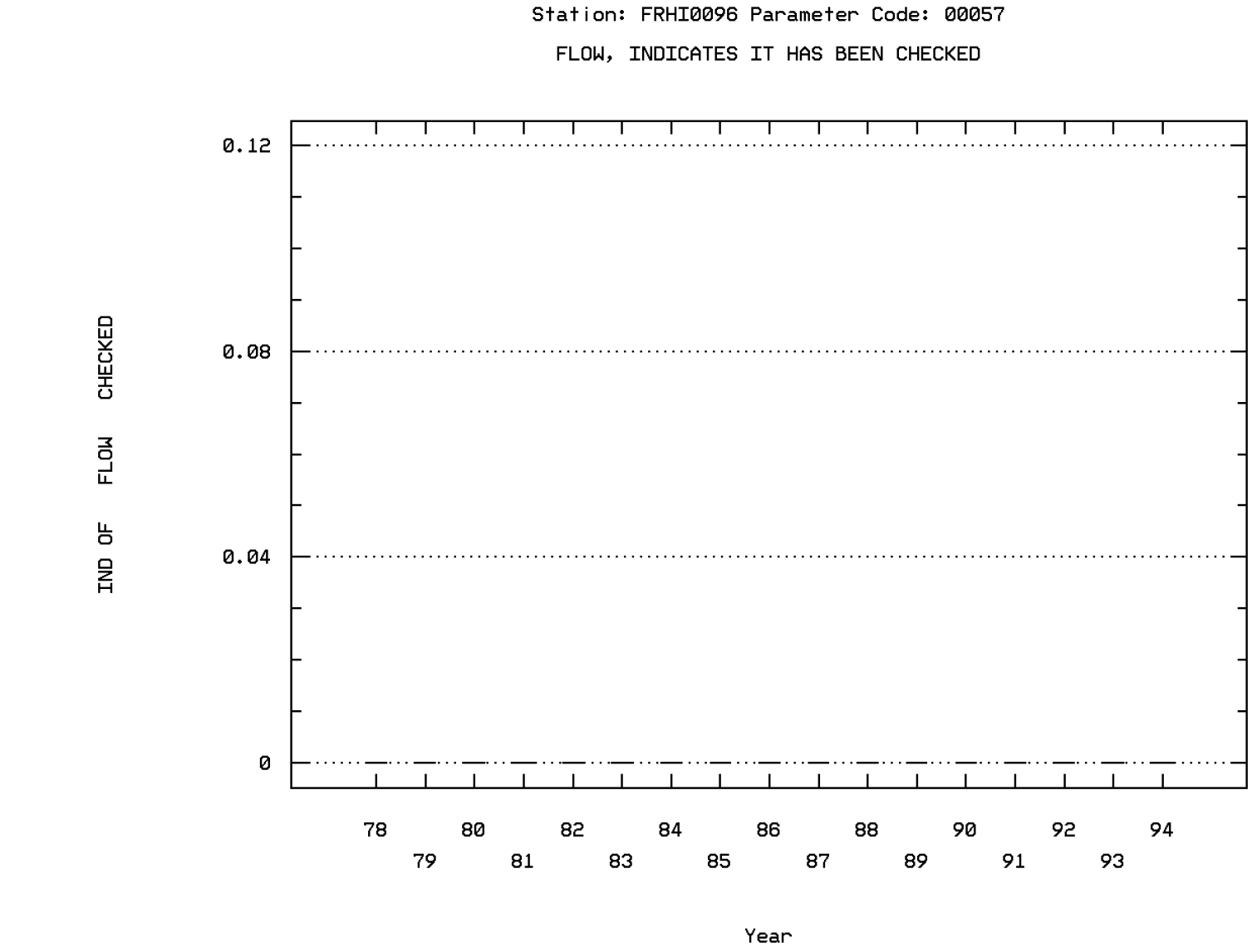
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	7	11.5	11.786	22.5	3.	58.738	7.664	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	7	360.	448.571	1350.	170.	174014.286	417.15	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	7	615.	763.429	1790.	383.	227282.286	476.741	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	7	10.	9.929	12.5	6.8	4.419	2.102	**	**	**	**
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	7	7.3	7.214	7.5	6.8	0.081	0.285	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	7	7.3	7.132	7.5	6.8	0.089	0.299	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	7	0.05	0.074	0.158	0.032	0.003	0.05	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	7	6.9	6.9	7.	6.7	0.013	0.115	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	7	6.9	6.886	7.	6.7	0.014	0.116	**	**	**	**

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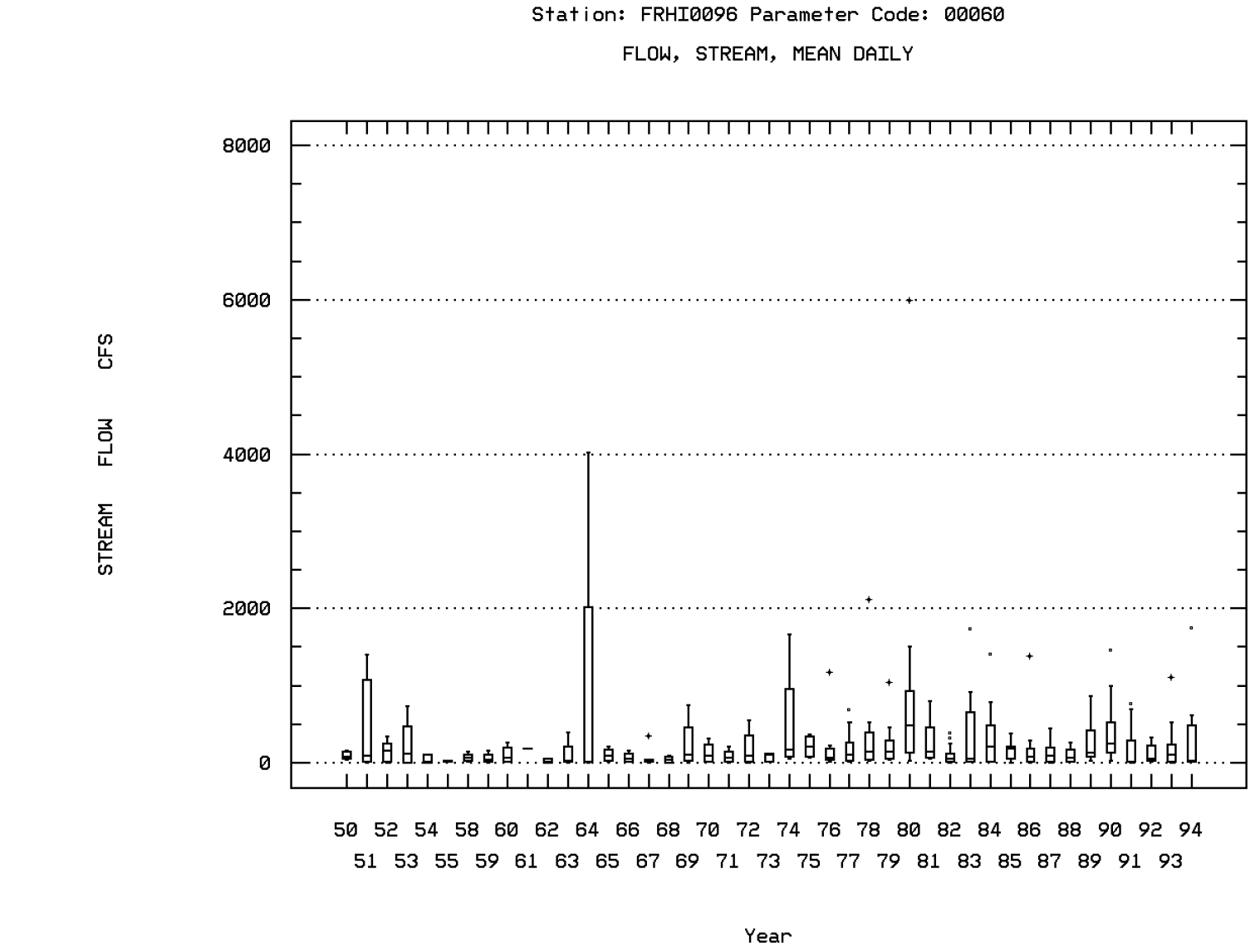
Annual Analysis for 1997 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	7	0.126	0.13	0.2	0.1	0.001	0.037	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	7	78.	78.571	94.	56.	142.286	11.928	**	**	**	**
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	7	462.	611.429	1570.	246.	211514.286	459.907	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	7	4.	4.286	10.	1.	12.238	3.498	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	7	0.04	0.036	0.07	0.01	0.001	0.024	**	**	**	**
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	7	0.006	0.007	0.01	0.005	0.	0.003	**	**	**	**
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	7	0.32	0.303	0.56	0.07	0.039	0.199	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	7 ##	0.01	0.011	0.02	0.01	0.	0.004	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	7	1.7	1.671	2.	1.3	0.066	0.256	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	7	161.	234.143	605.	125.	29647.143	172.183	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	7	181.	273.571	833.	108.	64219.952	253.417	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	7 ##	5.	8.429	18.	5.	24.619	4.962	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	7	529.	620.857	922.	294.	55861.143	236.35	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	7 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	7	157.	220.429	530.	124.	20343.952	142.632	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	7 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	7	12.	14.143	32.	5.	115.476	10.746	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	7	617.	662.286	877.	475.	20714.238	143.924	**	**	**	**

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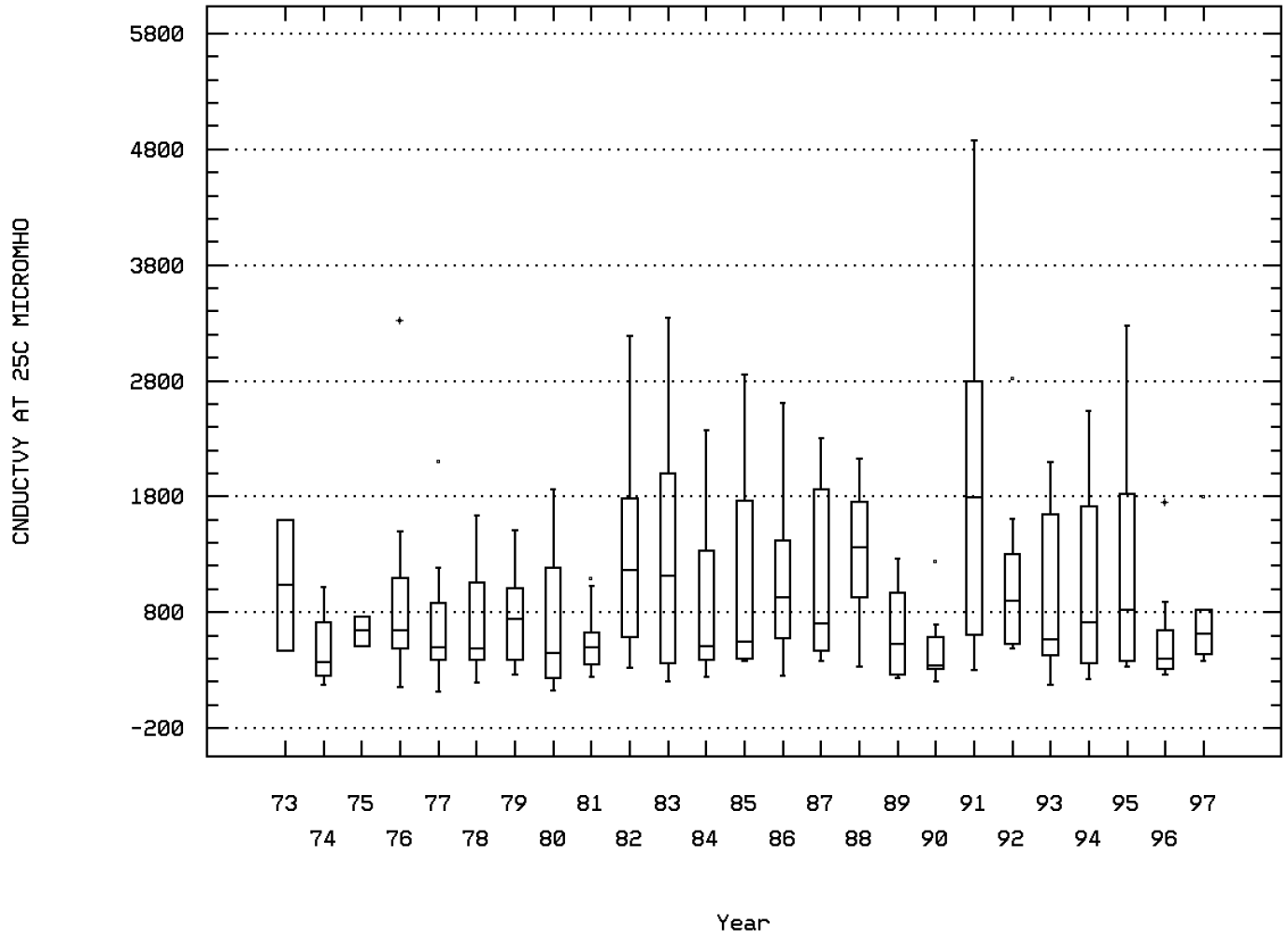
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00095

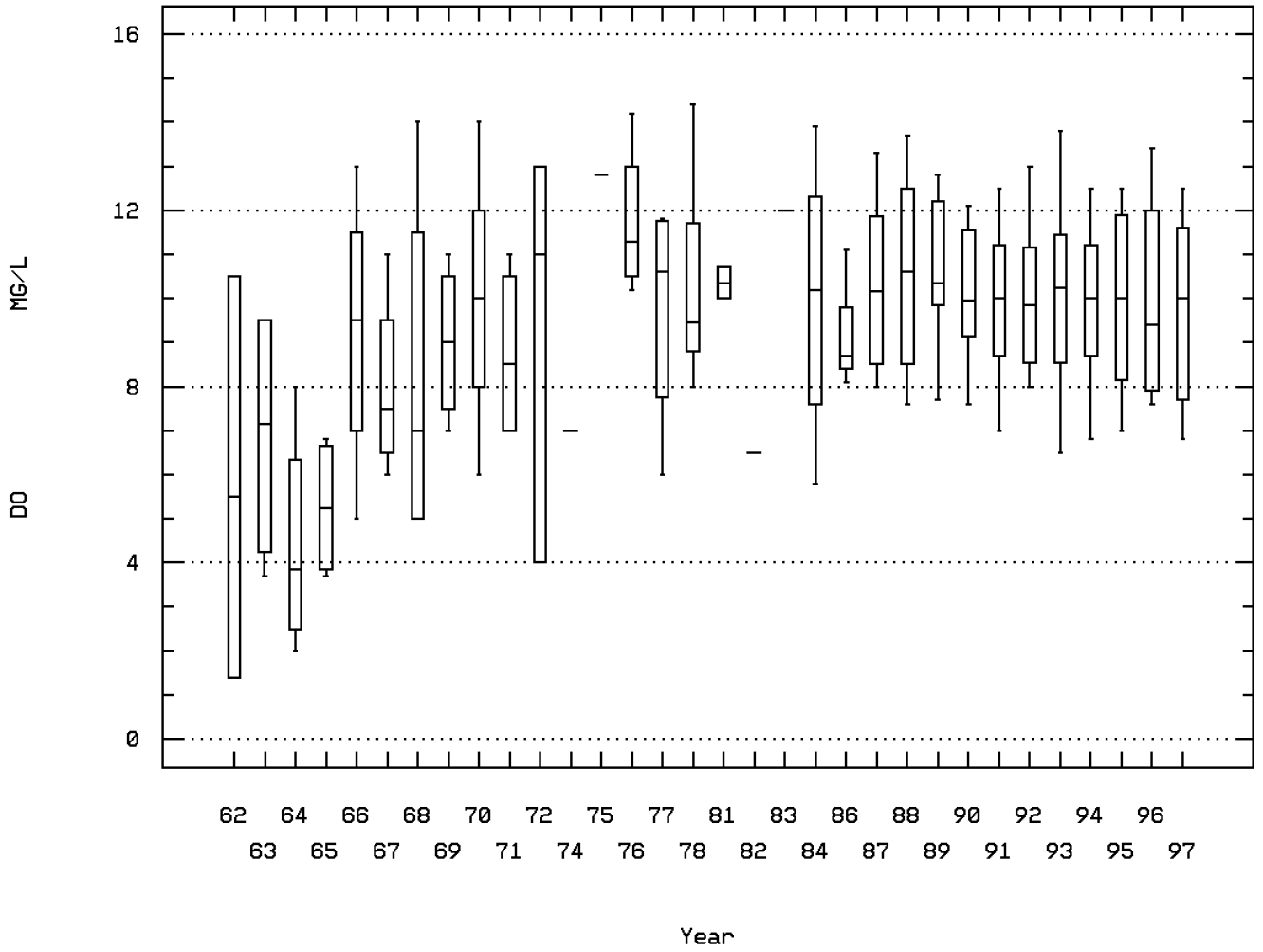
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00300

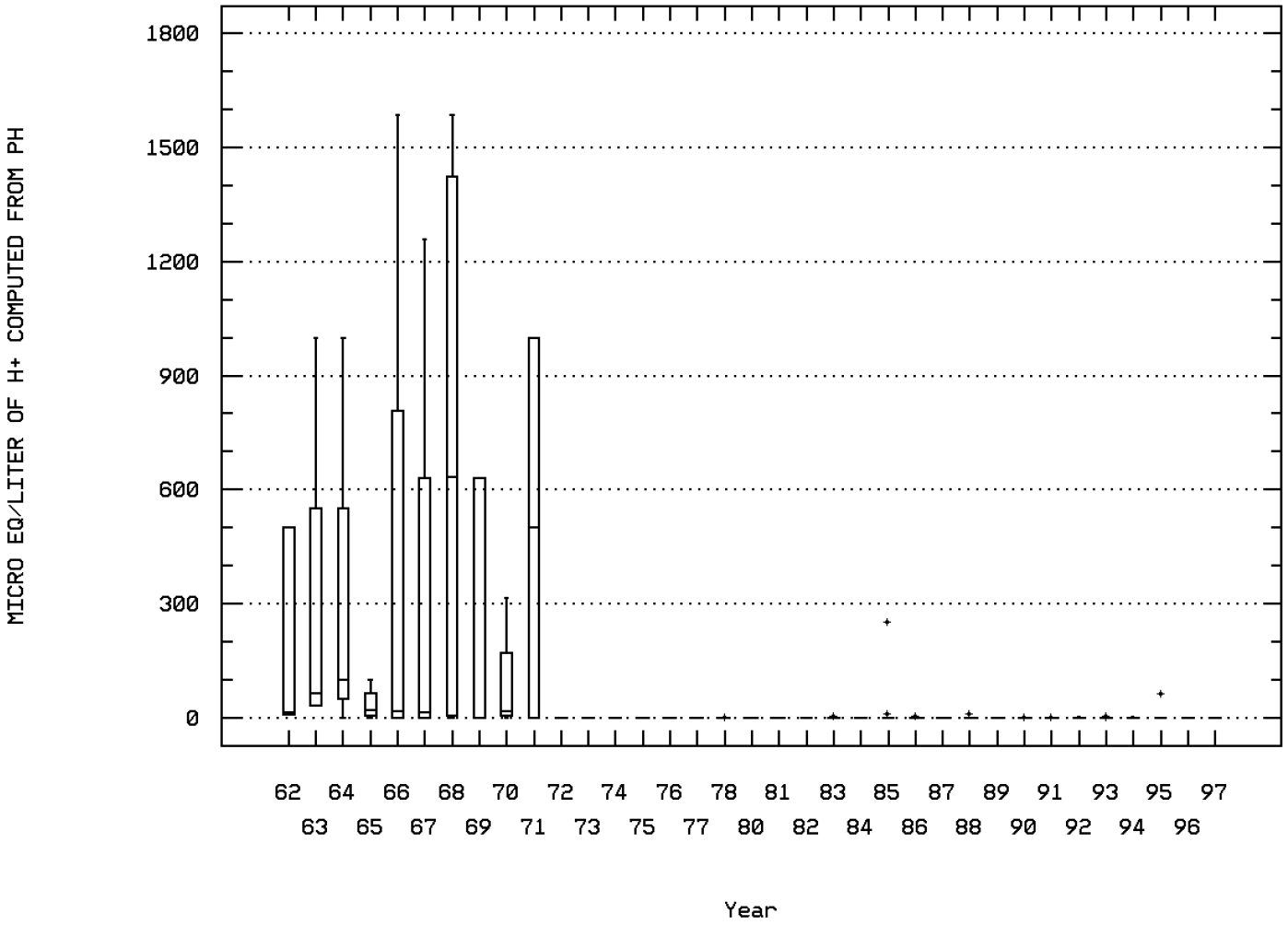
OXYGEN, DISSOLVED



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00400

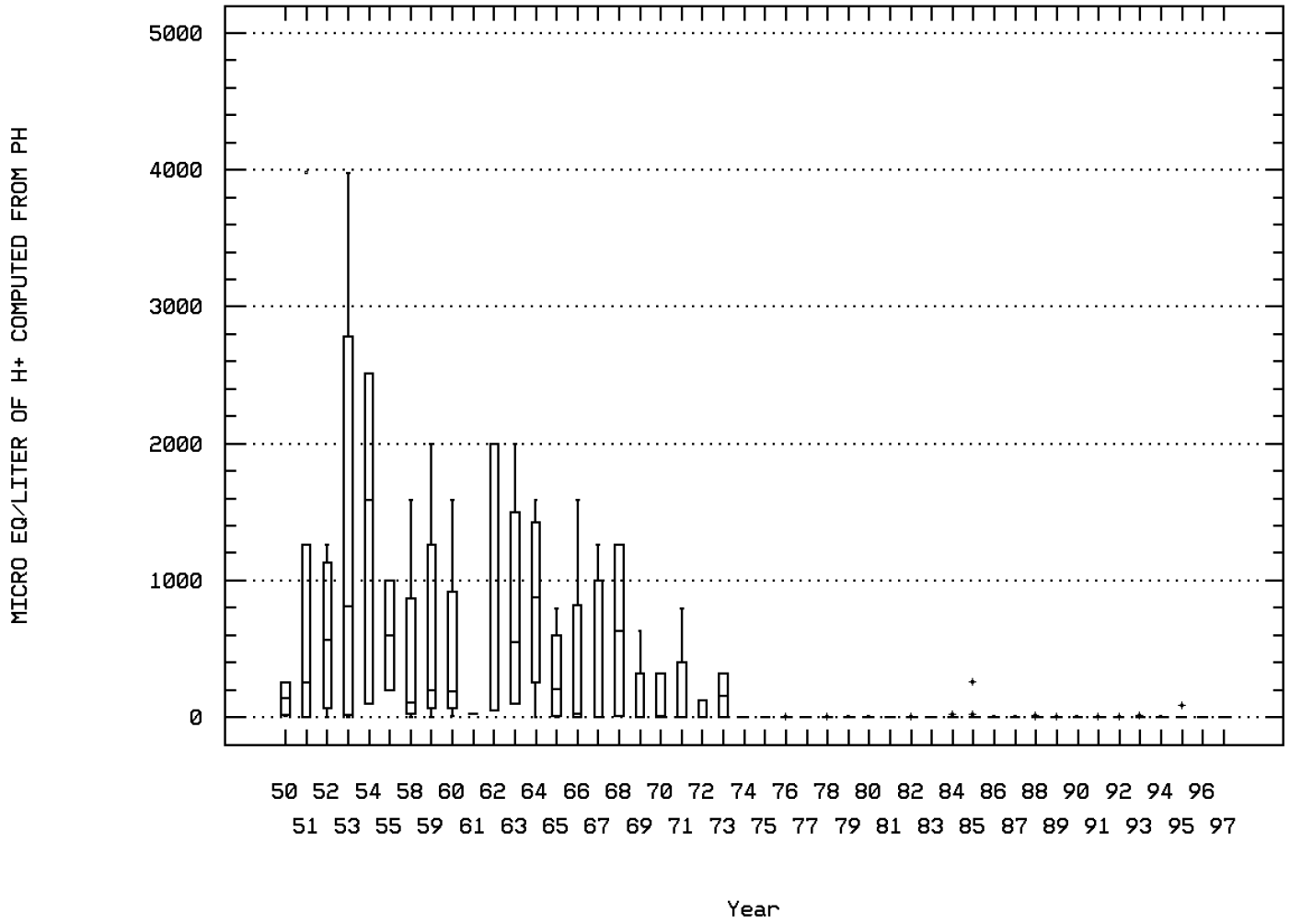
MICRO EQ/LITER OF H+ COMPUTED FROM PH



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00403

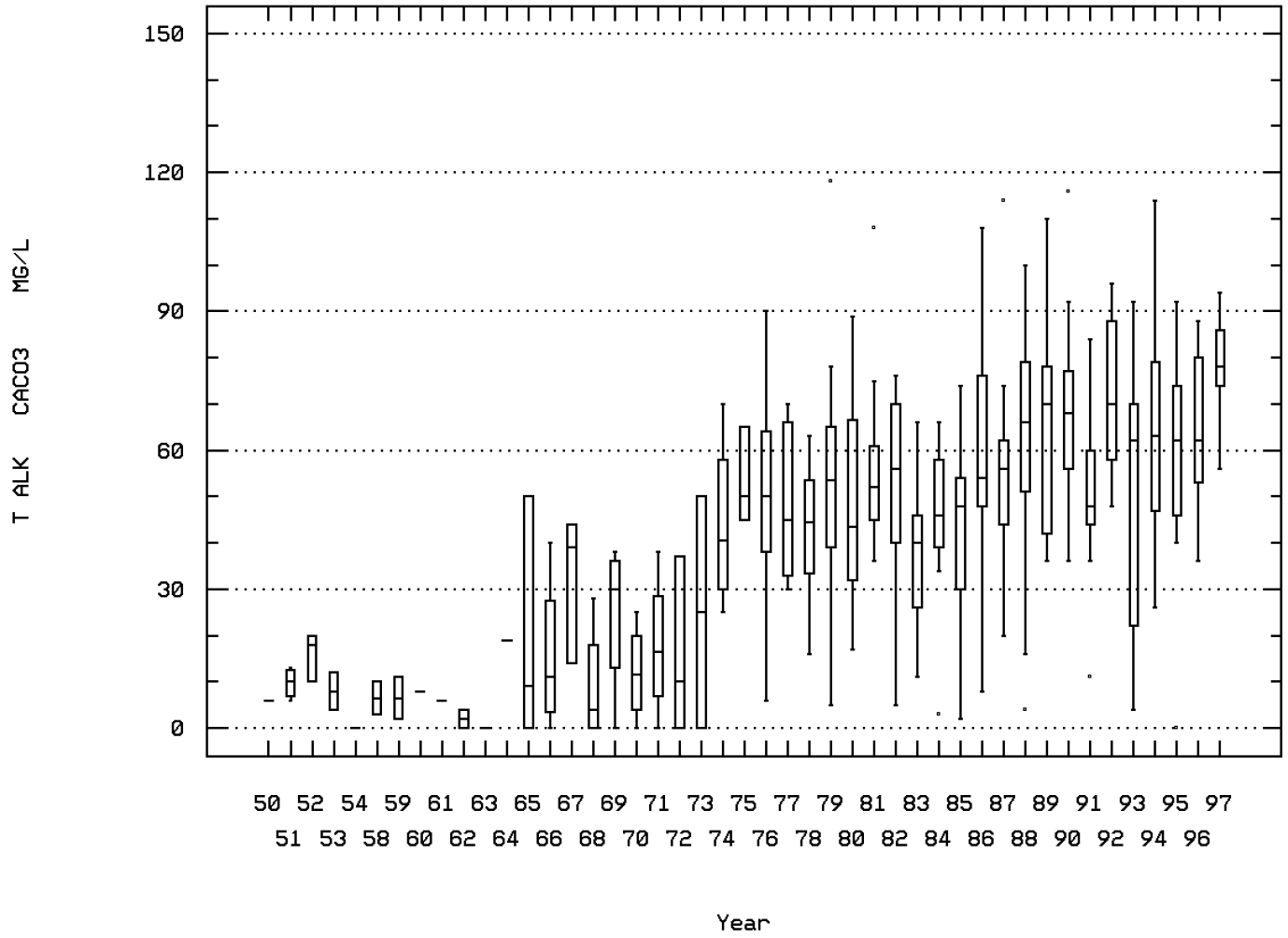
MICRO EQ/LITER OF H+ COMPUTED FROM PH



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00410

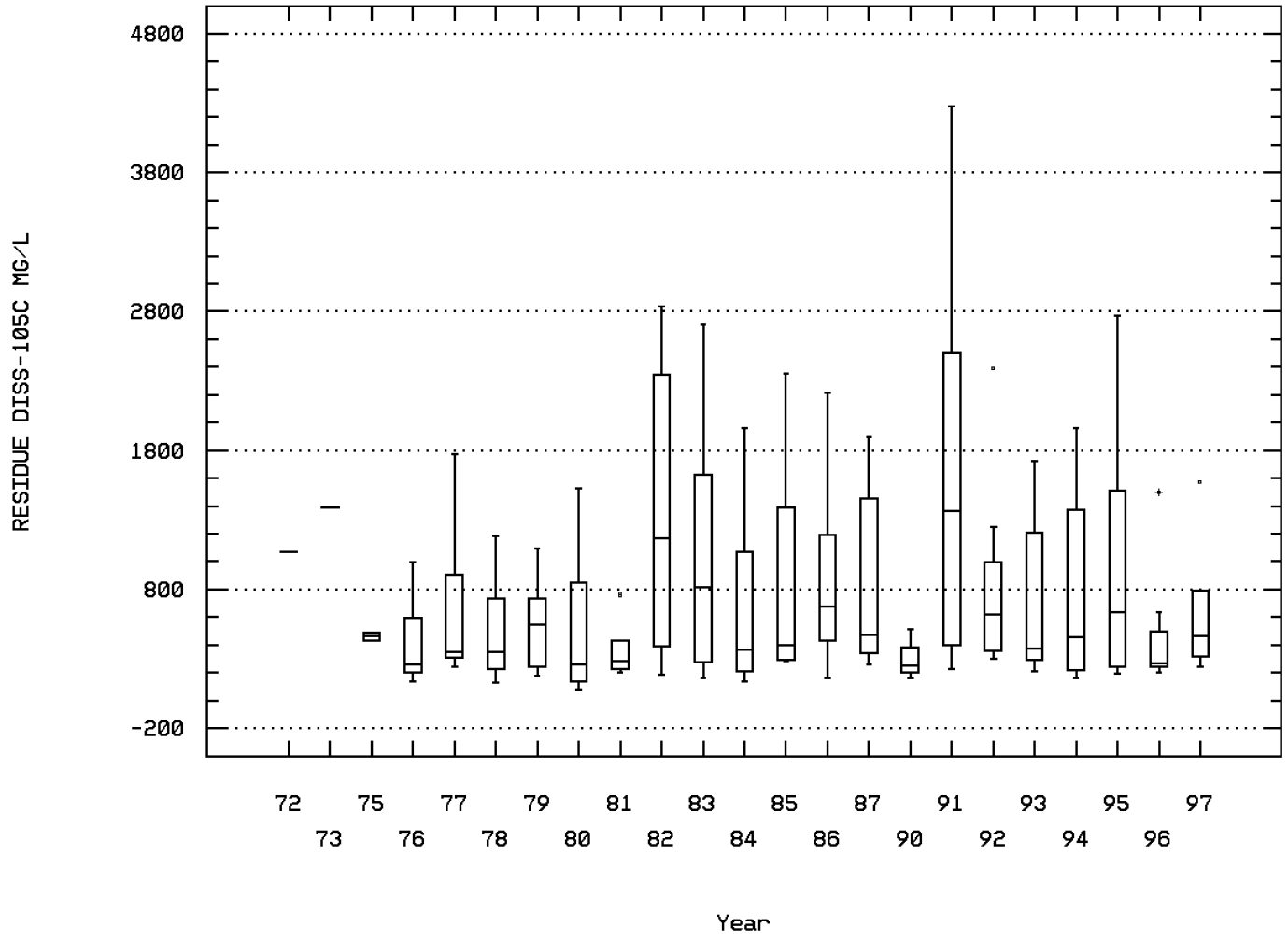
ALKALINITY, TOTAL (MG/L AS CACO3)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00515

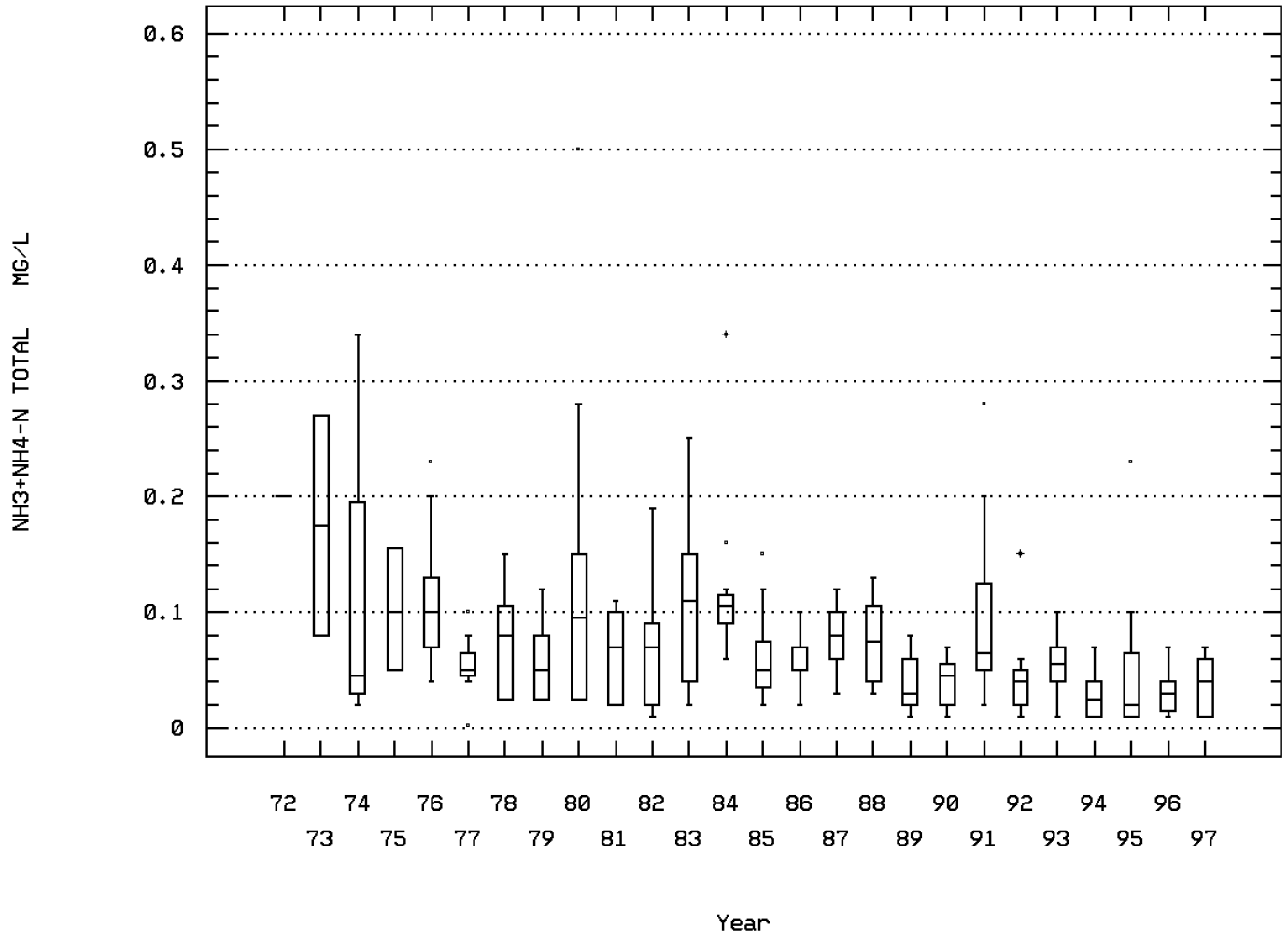
RESIDUE, TOTAL FILTRABLE (DRIED AT 105



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00610

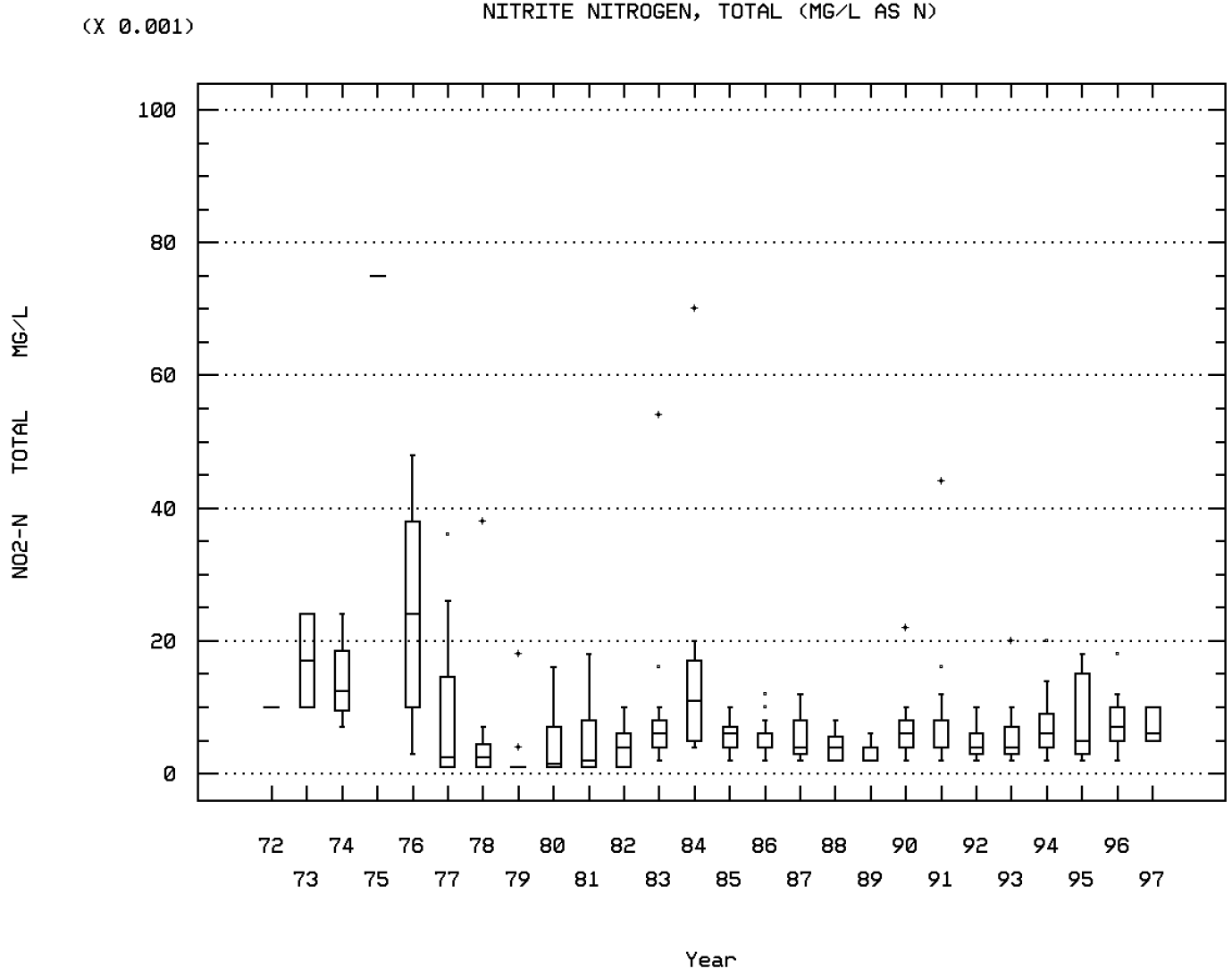
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00615

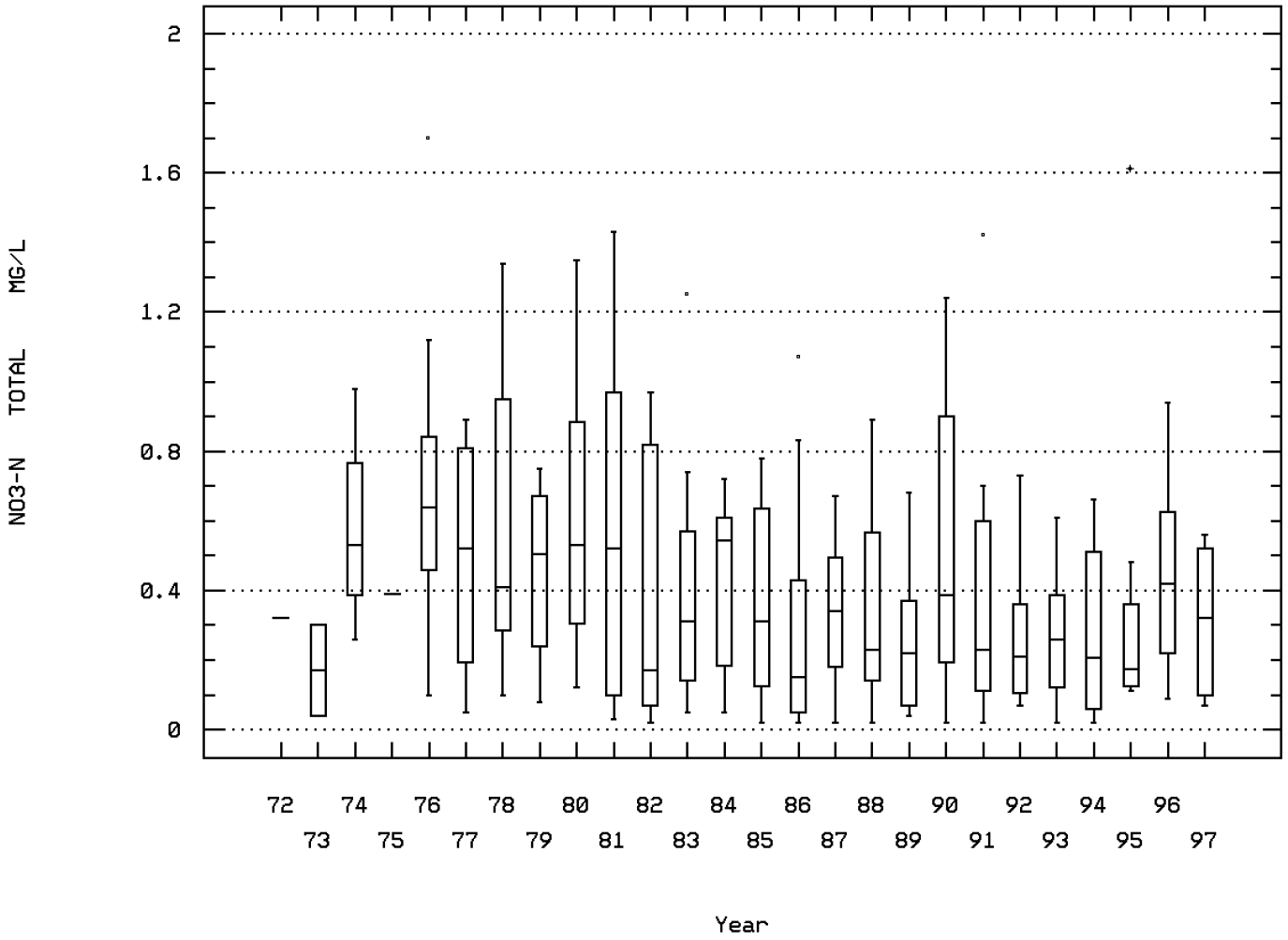
NITRITE NITROGEN, TOTAL (MG/L AS N)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00620

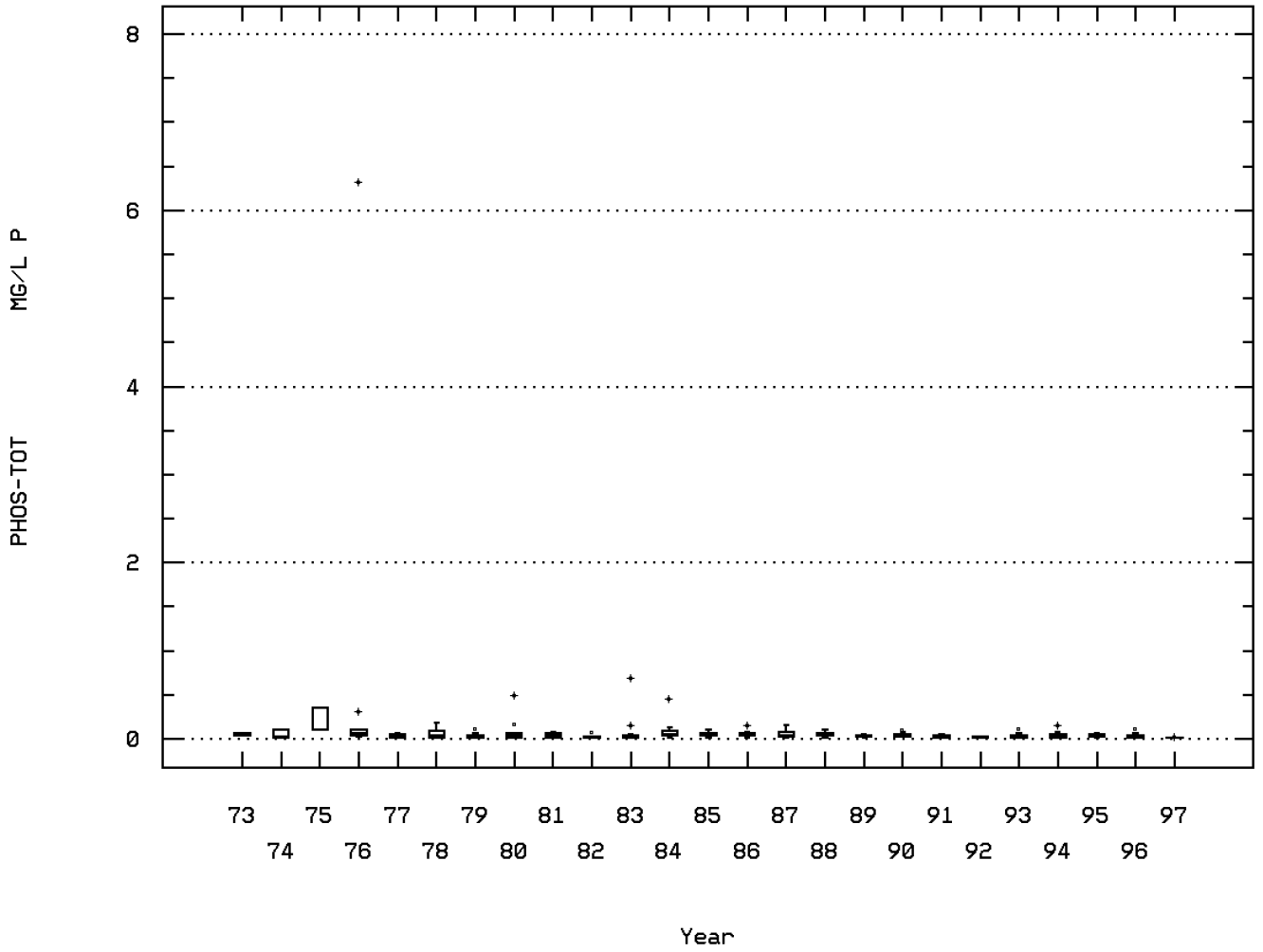
NITRATE NITROGEN, TOTAL (MG/L AS N)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00665

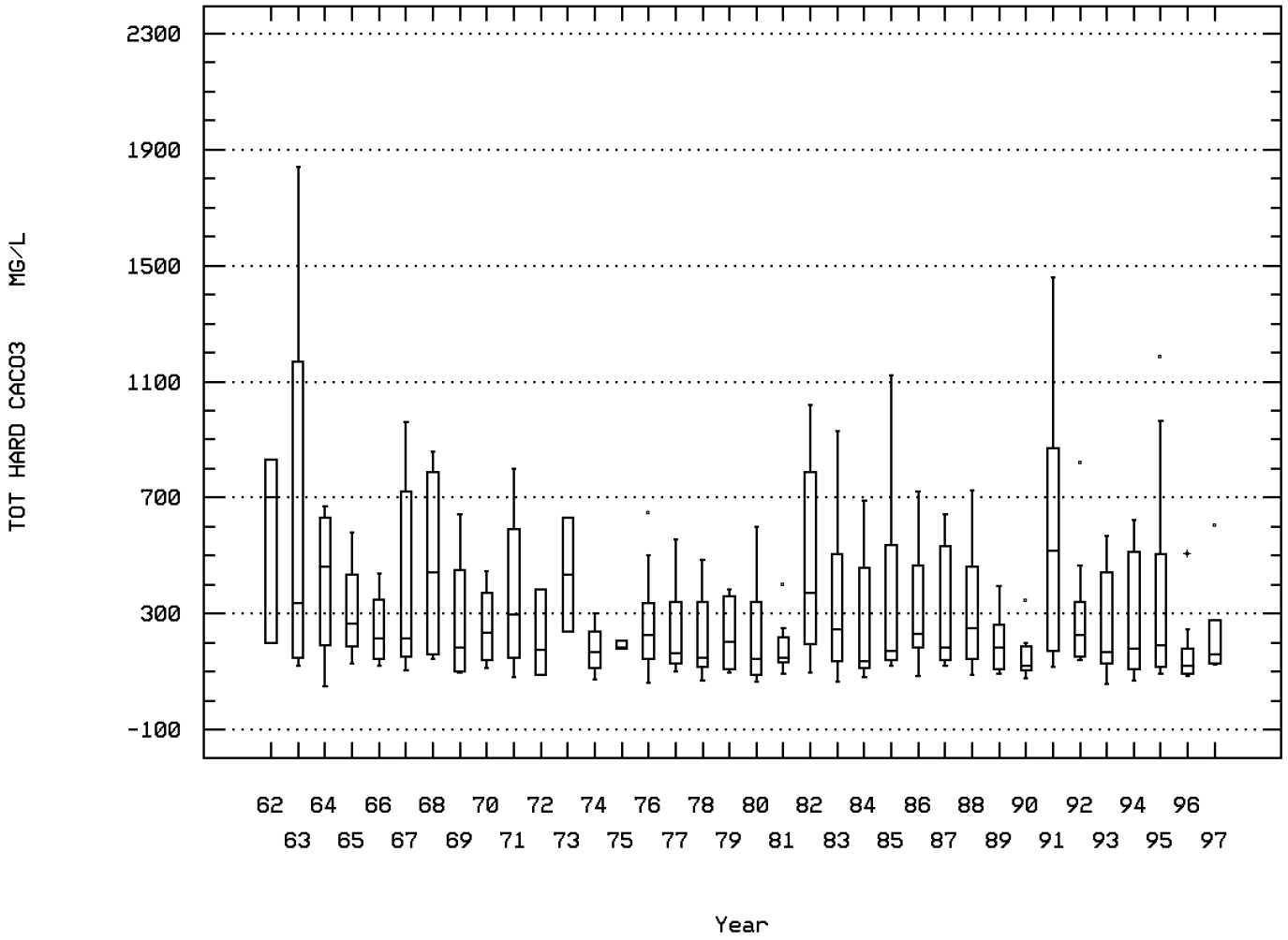
PHOSPHORUS, TOTAL (MG/L AS P)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00900

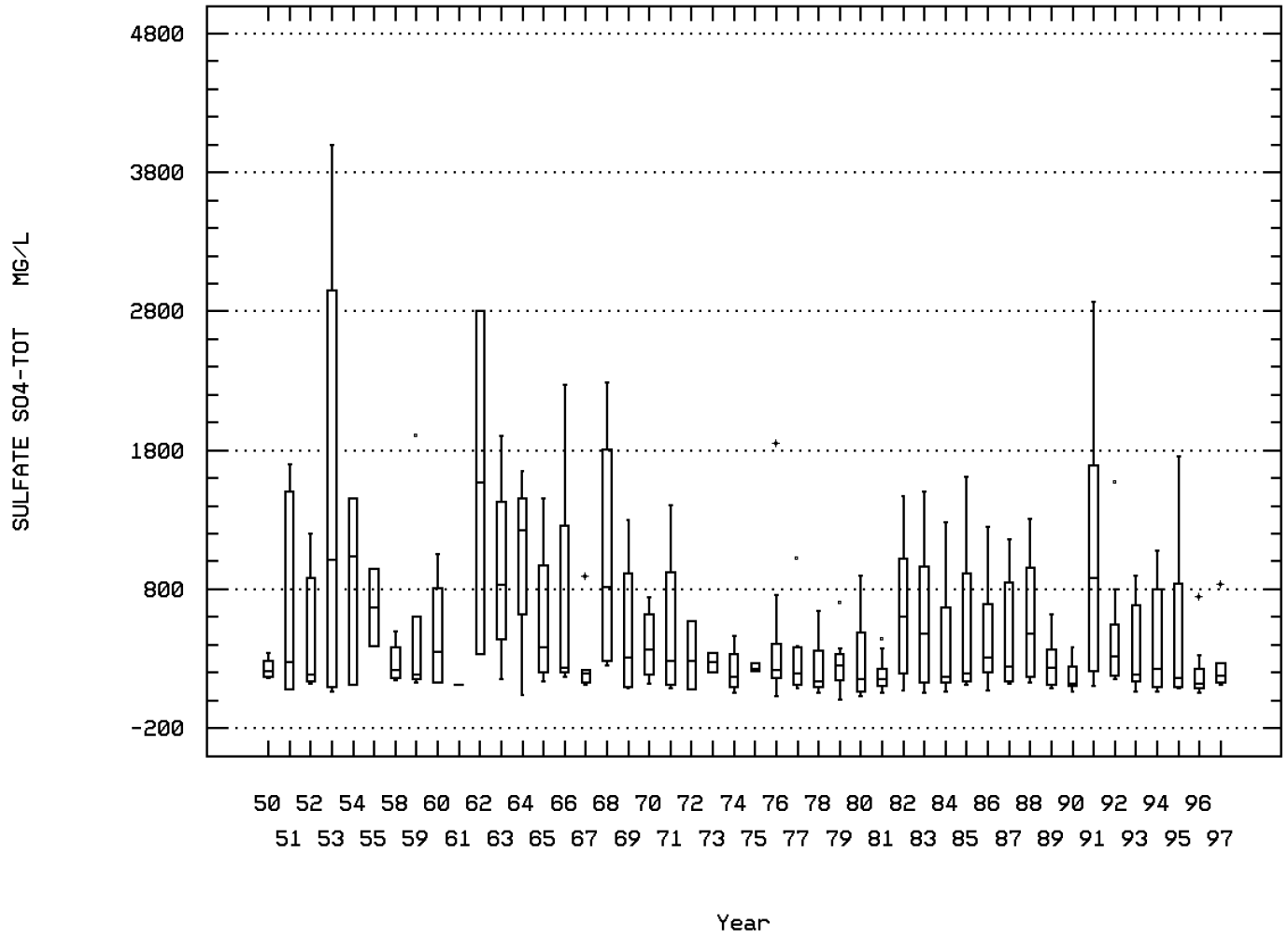
HARDNESS, TOTAL (MG/L AS CACO3)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00945

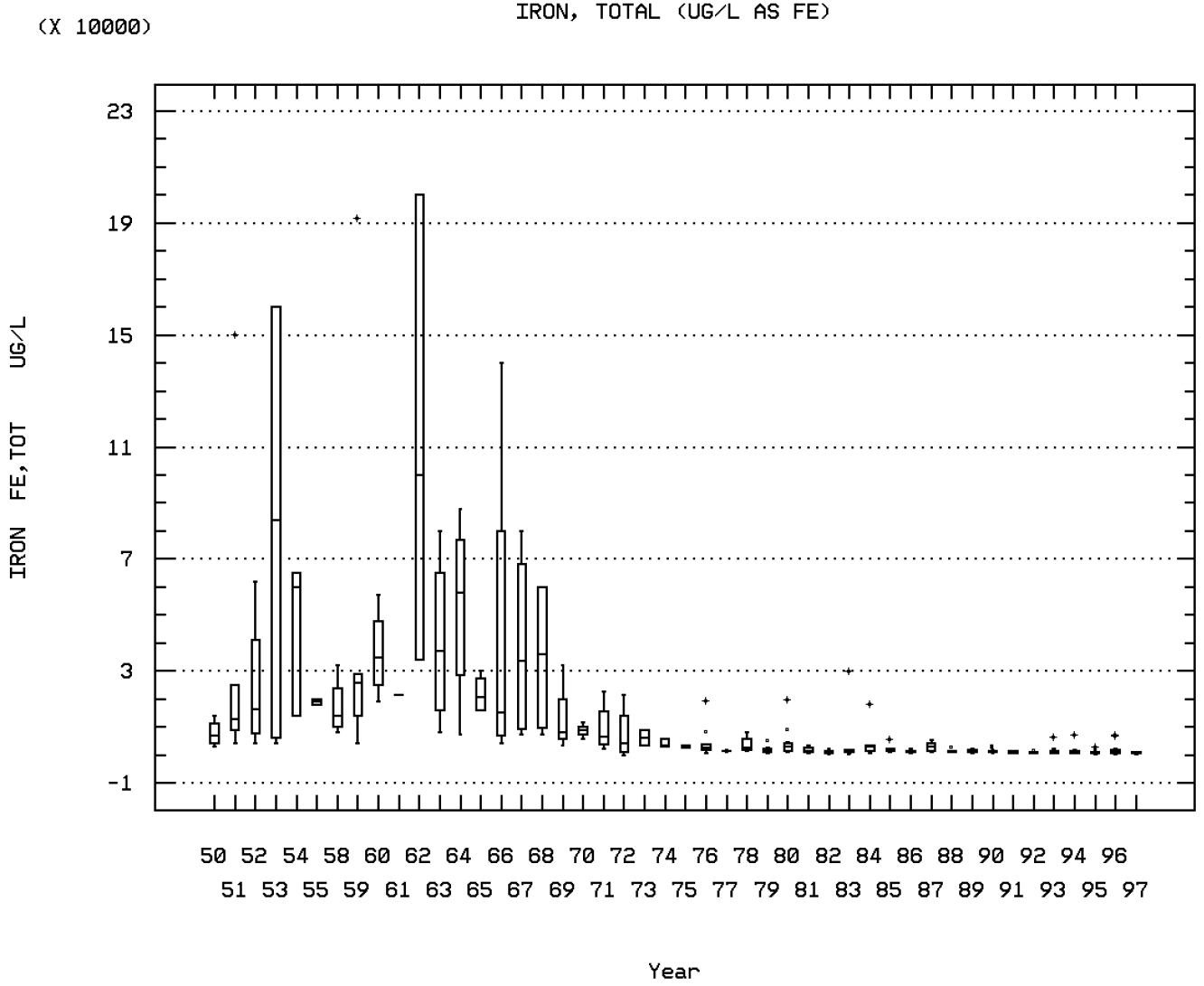
SULFATE, TOTAL (MG/L AS SO4)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 01045

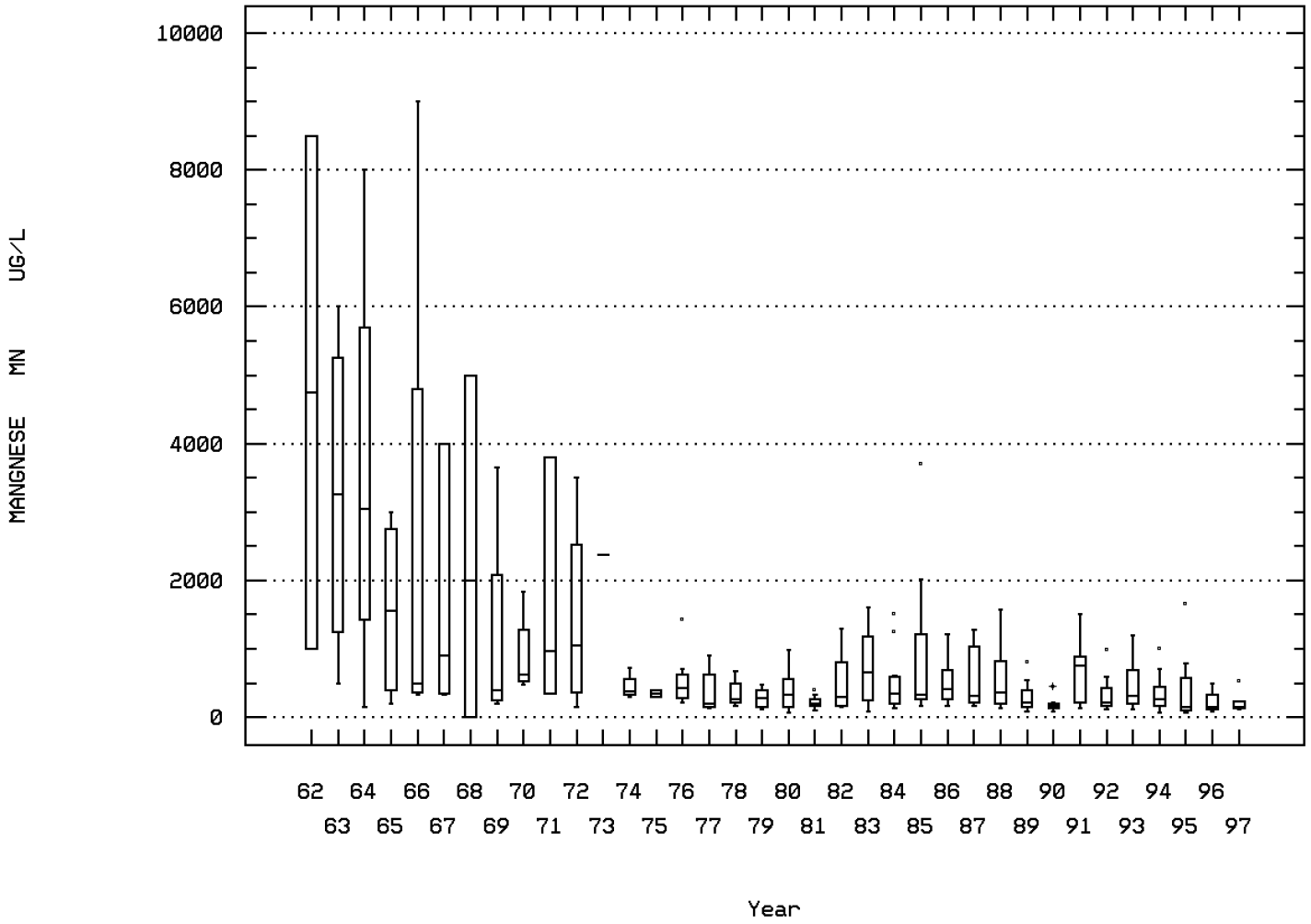
IRON, TOTAL (UG/L AS FE)



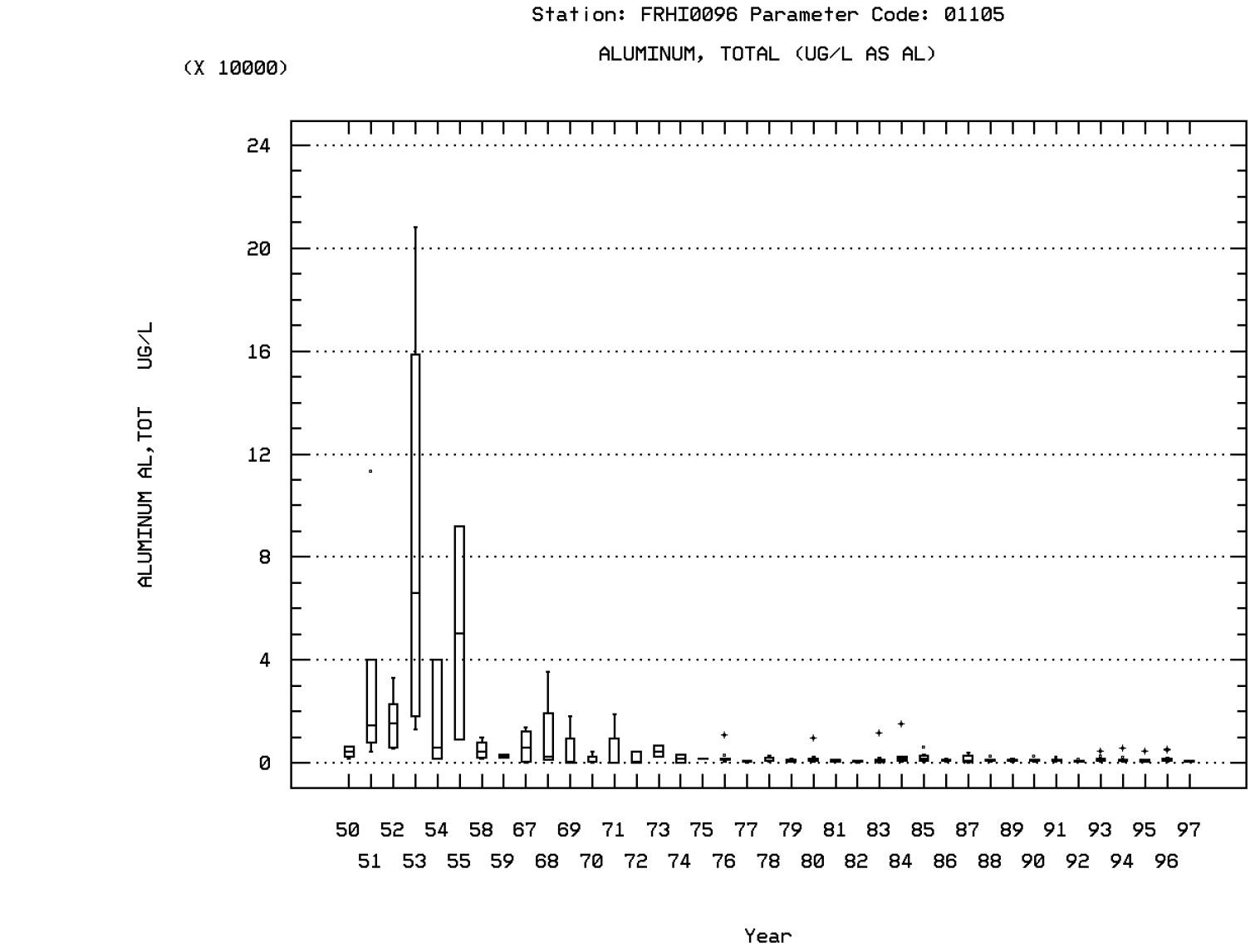
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 01055

MANGANESE, TOTAL (UG/L AS MN)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	88	20.25	19.256	28.5	6.	30.262	5.501	11.	16.	24.	26.
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	89	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	143	18.	68.406	1400.	2.	28972.257	170.212	5.	9.	52.	153.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	75	16.	88.067	1400.	2.	50069.441	223.762	5.	8.	32.	210.8
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	63	1.32	1.808	10.	1.03	2.104	1.45	1.11	1.17	1.58	3.468
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	25	25.	39.264	280.	7.8	3043.722	55.17	9.92	17.5	35.	76.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-03/27/74	16	22.5	32.188	140.	0.	1249.896	35.354	3.5	6.25	45.	91.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	33	1400.	1441.515	3600.	190.	664744.508	815.319	318.	875.	1875.	2620.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	88	1528.5	1589.75	4878.	221.	840122.948	916.582	388.9	962.5	2100.	2859.8
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	76	8.	7.92	12.	1.4	3.788	1.946	5.	7.	9.2	10.23
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-04/03/72	15	1.4	1.86	4.	0.	2.64	1.625	0.	0.	3.5	3.88
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	87	6.9	6.282	8.3	2.8	2.149	1.466	3.2	5.8	7.2	7.5
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	87	6.9	3.907	8.3	2.8	7.856	2.803	3.2	5.8	7.2	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	87	0.126	123.866	1584.893	0.005	125969.26	354.921	0.032	0.063	1.585	630.957
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	123	6.6	5.763	7.9	2.4	2.784	1.668	2.9	4.1	7.	7.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	123	6.6	3.538	7.9	2.4	7.771	2.788	2.9	4.1	7.	7.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	123	0.251	289.494	3981.072	0.013	420778.786	648.675	0.05	0.1	79.433	1258.925
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	101	48.	45.921	118.	0.	926.094	30.432	2.2	19.	71.	83.2
00436p	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-09/26/85	47	10.	81.596	590.	0.	16306.42	127.697	0.	0.	95.	273.6
00437p	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	42	239.	321.857	1600.	0.	153586.662	391.901	0.	0.	461.	982.
00500	RESIDUE, TOTAL (MG/L)	06/19/62-04/03/72	16	1986.	2112.5	4310.	296.	1495183.2	1222.777	466.8	1037.5	2747.5	4233.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	75	1252.	1340.347	4274.	76.	684374.959	827.27	250.4	746.	1782.	2455.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	48	15.	30.667	198.	1.	1541.291	39.259	3.8	9.25	38.75	82.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	88	0.055	0.076	0.34	0.01	0.004	0.066	0.01	0.03	0.1	0.162
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	89	0.004	0.007	0.07	0.001	0.	0.01	0.001	0.002	0.008	0.018
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	89	0.17	0.246	1.24	0.02	0.056	0.237	0.02	0.09	0.335	0.56
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	89	0.04	0.043	0.45	0.01	0.002	0.049	0.01	0.02	0.05	0.08
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	38	2.4	2.658	7.2	1.7	0.919	0.959	2.	2.175	2.8	3.34
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	106	444.	498.321	1840.	69.	96861.553	311.226	115.2	285.5	656.25	886.9
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	41	128.	160.834	1149.	20.5	31500.576	177.484	36.4	74.25	189.35	254.54
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	41	33.	39.456	263.	0.5	1676.415	40.944	7.7	18.7	55.85	59.96
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	67	50.	56.463	350.	0.	2371.949	48.703	13.4	29.	75.	99.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	122	758.	861.656	4000.	57.	436603.5	660.76	131.2	350.	1252.5	1675.9
01027	CADMIUM, TOTAL (UG/L AS CD)	09/26/72-08/17/87	11	2.5	2.945	8.	0.5	5.963	2.442	0.5	0.9	5.	7.6
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/26/72-08/17/87	11 ##	5.	12.727	60.	2.	338.818	18.407	2.	2.	10.	55.
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	49	15.	16.082	60.	5.	139.327	11.804	5.	5.	20.5	33.
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	125	2060.	16394.944	200000.	294.	1337493232.327	36571.755	645.6	1105.	8750.	60000.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	49 ##	2.	5.306	50.	0.5	94.373	9.715	0.5	2.	2.5	25.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	105	762.	1248.105	9000.	74.	2726692.306	1651.27	180.6	366.5	1270.	3560.
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	49	44.	57.878	330.	12.5	3012.183	54.883	12.5	25.	72.	98.
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	49	60.	93.694	620.	5.	13465.842	116.042	21.	36.5	101.	180.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	112	1210.	7359.723	208000.	18.	597153371.553	24436.722	479.7	788.5	2495.	14530.
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	12	0.	2845.083	28500.	0.	67861555.902	8237.813	0.	0.	26.25	21630.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	12	0.	0.889	4.455	0.	2.509	1.584	0.	0.	1.367	4.243
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			7.736								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	59	50.	648.771	20000.	5.	6981280.684	2642.211	10.	10.	360.	1000.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	59	1.699	1.854	4.301	0.699	0.719	0.848	1.	1.	2.556	3.
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			71.443								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-12/05/75	21	0.	0.029	0.19	0.	0.002	0.047	0.	0.	0.05	0.096
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	41	0.	9.976	136.	0.	647.324	25.443	0.	0.	1.5	38.

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

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FRHI0096

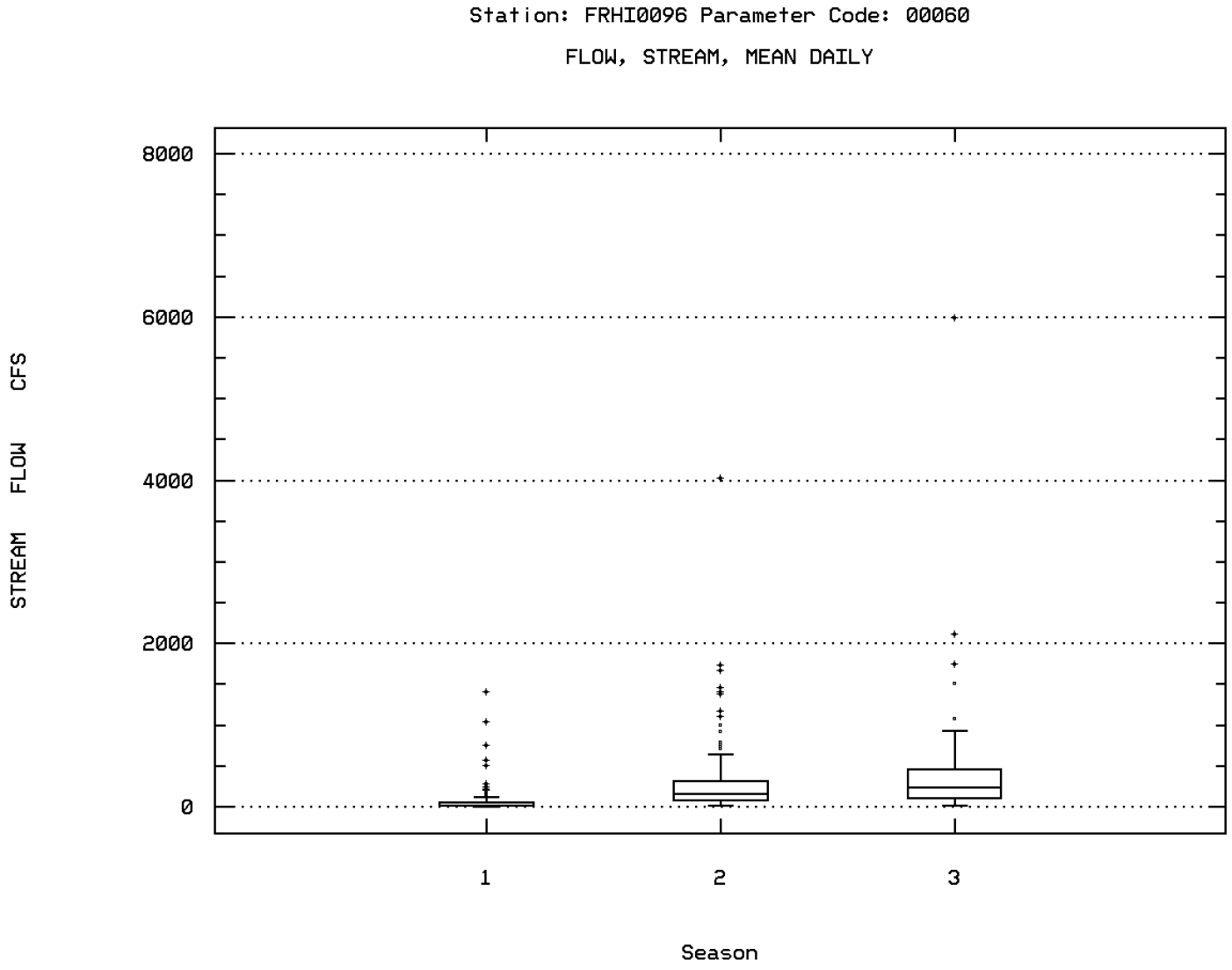
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	89	4.	4.374	15.	0.	10.612	3.258	0.9	1.6	6.35	9.5
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	86	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	127	153.	300.441	4020.	9.	226511.614	475.932	34.	77.	319.	737.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	82	190.	401.862	5212.	0.7	455173.236	674.665	16.8	77.75	429.	1120.
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	72	2.645	2.961	7.5	1.2	1.743	1.32	1.509	1.973	3.565	5.108
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	21	25.	72.914	480.	5.4	13537.175	116.349	7.54	16.5	71.5	272.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-03/27/74	14	10.	21.786	65.	0.	621.566	24.931	0.	0.	51.25	62.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	43	270.	426.279	2700.	140.	220052.492	469.098	154.	190.	480.	820.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	97	500.	643.371	4447.	155.	319069.444	564.862	258.2	356.	697.	1232.
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	74	12.	11.591	14.4	4.7	3.037	1.743	9.85	10.875	12.5	13.6
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-04/03/72	14	1.5	1.643	4.2	0.	1.67	1.292	0.15	0.5	3.05	3.7
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	87	7.1	7.005	8.2	4.	0.514	0.717	6.18	6.8	7.4	7.62
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	87	7.1	5.721	8.2	4.	2.183	1.477	6.18	6.8	7.4	7.62
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	87	0.079	1.902	100.	0.006	126.706	11.256	0.024	0.04	0.158	0.664
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	123	6.9	6.713	7.8	3.3	0.654	0.809	5.94	6.6	7.2	7.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	123	6.9	5.027	7.8	3.3	3.52	1.876	5.94	6.6	7.2	7.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	123	0.126	9.401	501.187	0.016	2917.814	54.017	0.032	0.063	0.251	1.155
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	120	50.	49.983	116.	0.	547.378	23.396	15.	38.	64.	79.8
00436p	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-09/26/85	31	0.	3.129	86.	0.	238.849	15.455	0.	0.	0.	2.4
00437p	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	33	0.	17.212	228.	0.	1842.235	42.921	0.	0.	16.	55.6
00500	RESIDUE, TOTAL (MG/L)	06/19/62-04/03/72	14	620.	728.714	2565.	158.	373032.22	610.764	186.	381.25	844.5	1957.5
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	86	344.	480.547	3788.	135.	235922.674	485.719	180.8	239.5	495.75	967.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	52	13.	32.846	555.	1.	6090.682	78.043	1.	4.	38.75	65.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	101	0.06	0.077	0.34	0.003	0.003	0.056	0.02	0.04	0.1	0.146
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	99	0.006	0.008	0.054	0.001	0.	0.008	0.002	0.004	0.008	0.016
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	98	0.565	0.598	1.7	0.02	0.124	0.352	0.129	0.37	0.732	1.077
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	100	0.03	0.115	6.31	0.01	0.397	0.63	0.01	0.02	0.058	0.1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	46	2.05	2.18	3.7	1.3	0.382	0.618	1.54	1.775	2.5	3.2
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	114	149.	188.018	1269.	50.	22021.787	148.397	85.5	116.5	205.75	306.
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	44	44.55	54.743	157.9	3.4	990.02	31.465	24.35	36.25	63.725	109.95
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	44	10.	12.664	50.7	0.1	90.144	9.494	3.6	7.25	15.4	23.35
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	68	20.	29.25	190.	3.	938.907	30.642	10.	15.	33.5	52.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	123	164.	246.366	2467.	30.	81934.267	286.242	77.4	110.	252.	514.
01027	CADMIUM, TOTAL (UG/L AS CD)	09/26/72-08/17/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/26/72-08/17/87	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	47 ##	5.	7.34	30.	5.	27.795	5.272	5.	5.	5.	13.2
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	123	1610.	4435.707	50000.	500.	57379749.569	7574.942	717.4	1050.	4000.	10000.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	47 ##	2.	2.128	10.	0.5	3.016	1.737	0.5	1.	2.	4.2
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	111	222.	346.171	2700.	60.	146790.325	383.132	120.6	157.	370.	652.8
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	47 ##	12.5	17.819	82.	12.5	202.048	14.214	12.5	12.5	12.5	35.
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	47	15.	21.894	110.	5.	491.706	22.174	5.	5.	29.	51.6
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	110	892.5	1667.045	23000.	50.	8183790.301	2860.732	401.3	576.	1500.	2960.
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	12	197.	1694.792	17670.	0.	25391966.794	5039.044	0.	10.125	589.75	12639.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	12	2.293	1.939	4.247	0.	1.574	1.255	0.	0.97	2.767	3.859
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			86.892								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	58	110.	379.052	2800.	5.	437820.138	661.68	10.	28.75	300.	1160.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	58	2.04	2.039	3.447	0.699	0.546	0.739	1.	1.457	2.477	3.06
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			109.382								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-12/05/75	16	0.045	0.084	0.75	0.	0.033	0.183	0.	0.	0.095	0.309
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	44	0.	0.114	5.	0.	0.568	0.754	0.	0.	0.	0.

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

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FRHI0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/62-07/08/97	64	14.75	15.138	28.	1.	35.43	5.952	7.4	11.	20.	22.95
00057	FLOW, INDICATES IT HAS BEEN CHECKED	10/24/78-09/20/94	68	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00060p	FLOW, STREAM, MEAN DAILY CFS	04/04/50-12/18/95	112	243.	447.009	5990.	9.	721042.712	849.142	34.6	104.	458.25	864.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/62-09/19/96	60	246.	492.117	8600.	9.	1323925.935	1150.62	23.	85.5	445.25	875.6
00065	STAGE, STREAM (FEET)	02/28/77-09/19/96	51	2.85	3.172	10.68	1.32	2.73	1.652	1.476	2.11	3.85	4.874
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/19/62-12/13/77	20	22.5	38.975	260.	2.	3040.381	55.14	3.75	15.	50.	60.
00080	COLOR (PLATINUM-COBALT UNITS)	06/19/62-03/27/74	13	5.	11.538	65.	0.	334.936	18.301	0.	0.	15.	51.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/03/88-07/08/97	28	385.	475.	1400.	140.	106781.481	326.774	195.	275.	495.	1125.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/73-07/08/97	72	496.5	613.042	2100.	120.	161828.829	402.28	245.	342.5	752.25	1255.9
00300p	OXYGEN, DISSOLVED MG/L	06/19/62-07/08/97	58	9.75	9.379	13.	2.	3.84	1.959	7.54	8.675	10.425	11.24
00310	BOD, 5 DAY, 20 DEG C MG/L	06/19/62-04/03/72	11	1.6	3.827	25.	0.6	49.832	7.059	0.68	1.2	2.6	20.6
00400p	PH (STANDARD UNITS)	06/19/62-07/08/97	66	7.05	6.717	7.7	3.3	1.032	1.016	4.85	6.4	7.4	7.5
00400p	CONVERTED PH (STANDARD UNITS)	06/19/62-07/08/97	66	7.047	4.902	7.7	3.3	4.38	2.093	4.85	6.4	7.4	7.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/62-07/08/97	66	0.09	12.54	501.187	0.02	4061.824	63.732	0.032	0.04	0.398	16.487
00403p	PH, LAB, STANDARD UNITS SU	04/04/50-07/08/97	97	6.8	6.343	7.7	2.4	1.727	1.314	3.98	6.2	7.15	7.42
00403p	CONVERTED PH, LAB, STANDARD UNITS	04/04/50-07/08/97	97	6.8	3.969	7.7	2.4	7.424	2.725	3.98	6.2	7.15	7.42
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/50-07/08/97	97	0.158	107.447	3981.072	0.02	237056.005	486.884	0.038	0.071	0.631	105.179
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/07/50-07/08/97	91	52.	47.099	94.	0.	695.223	26.367	6.2	26.	68.	82.8
00436p	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	04/04/50-09/26/85	30	0.	34.567	340.	0.	8340.461	91.326	0.	0.	1.	255.5
00437p	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	04/04/50-12/13/77	31	16.	80.032	1100.	0.	47728.032	218.467	0.	0.	40.	266.4
00500	RESIDUE, TOTAL (MG/L)	06/19/62-04/03/72	12	458.	817.917	2390.	242.	602745.902	776.367	245.	289.	1223.75	2360.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/02/72-07/08/97	56	319.	457.357	1630.	88.	115495.616	339.846	170.2	250.5	582.5	1137.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/62-07/08/97	38	15.5	34.053	200.	1.	2350.43	48.481	1.	3.5	44.5	123.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/02/72-07/08/97	72	0.04	0.056	0.5	0.01	0.004	0.065	0.013	0.02	0.07	0.124
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	72	0.006	0.009	0.075	0.001	0.	0.012	0.001	0.004	0.01	0.02
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/02/72-07/08/97	72	0.28	0.37	1.35	0.02	0.091	0.302	0.056	0.15	0.543	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/17/73-07/08/97	70	0.04	0.058	0.49	0.01	0.005	0.074	0.01	0.02	0.07	0.109
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/19/88-07/08/97	31	2.1	2.197	3.5	1.6	0.198	0.445	1.72	1.9	2.5	2.86
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/19/62-07/08/97	84	160.	208.131	700.	65.	18419.368	135.718	99.	120.25	246.	446.5
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/78-12/03/87	32	38.35	50.634	159.4	3.9	1193.007	34.54	17.16	30.9	59.45	111.4
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/78-12/03/87	32	9.9	13.516	38.7	1.2	70.625	8.404	6.45	9.	15.8	28.77
00940p	CHLORIDE,TOTAL IN WATER MG/L	06/19/62-12/03/87	52	16.5	19.119	92.	0.2	225.092	15.003	5.	10.25	25.	38.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	04/04/50-07/08/97	96	158.5	256.979	1900.	5.	77569.979	278.514	80.8	116.75	263.75	559.4
01042	COPPER, TOTAL (UG/L AS CU)	09/26/72-07/08/97	32 ##	5.	15.469	240.	5.	1728.967	41.581	5.	5.	9.5	24.3
01045p	IRON, TOTAL (UG/L AS FE)	04/04/50-07/08/97	96	1425.	8125.76	160000.	14.	441003170.563	21000.075	672.8	945.5	6840.	20000.
01051	LEAD, TOTAL (UG/L AS PB)	09/26/72-07/08/97	32 ##	2.	1.781	5.	0.5	0.951	0.975	0.5	0.875	2.	2.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/13/62-07/08/97	82	232.5	416.415	4500.	0.	420623.678	648.555	128.	160.	418.75	678.6
01067	NICKEL, TOTAL (UG/L AS NI)	09/26/72-07/08/97	32 ##	12.5	19.734	51.	12.5	130.709	11.433	12.5	12.5	27.5	40.3
01092	ZINC, TOTAL (UG/L AS ZN)	09/26/72-07/08/97	32	19.	25.125	93.	5.	425.597	20.63	5.	11.25	31.5	51.7
01105p	ALUMINUM, TOTAL (UG/L AS AL)	04/04/50-07/08/97	85	978.	3343.741	109000.	1.	147072553.932	12127.347	448.4	612.5	1480.	5800.
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/19/62-01/11/71	9	50.	400.889	1843.	0.	494829.861	703.441	0.	0.	813.	1843.
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/19/62-01/11/71	9	1.699	1.527	3.266	0.	1.676	1.295	0.	0.	2.753	3.266
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			33.651								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	50	270.	1080.1	15000.	5.	6120668.612	2473.999	25.	100.	842.5	2660.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/09/77-01/19/88	50	2.431	2.442	4.176	0.699	0.558	0.747	1.398	2.	2.925	3.424
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			276.974								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	06/19/62-12/05/75	14	0.	0.019	0.15	0.	0.002	0.044	0.	0.	0.01	0.115
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	01/23/78-12/03/87	33	0.	0.545	18.	0.	9.818	3.133	0.	0.	0.	0.

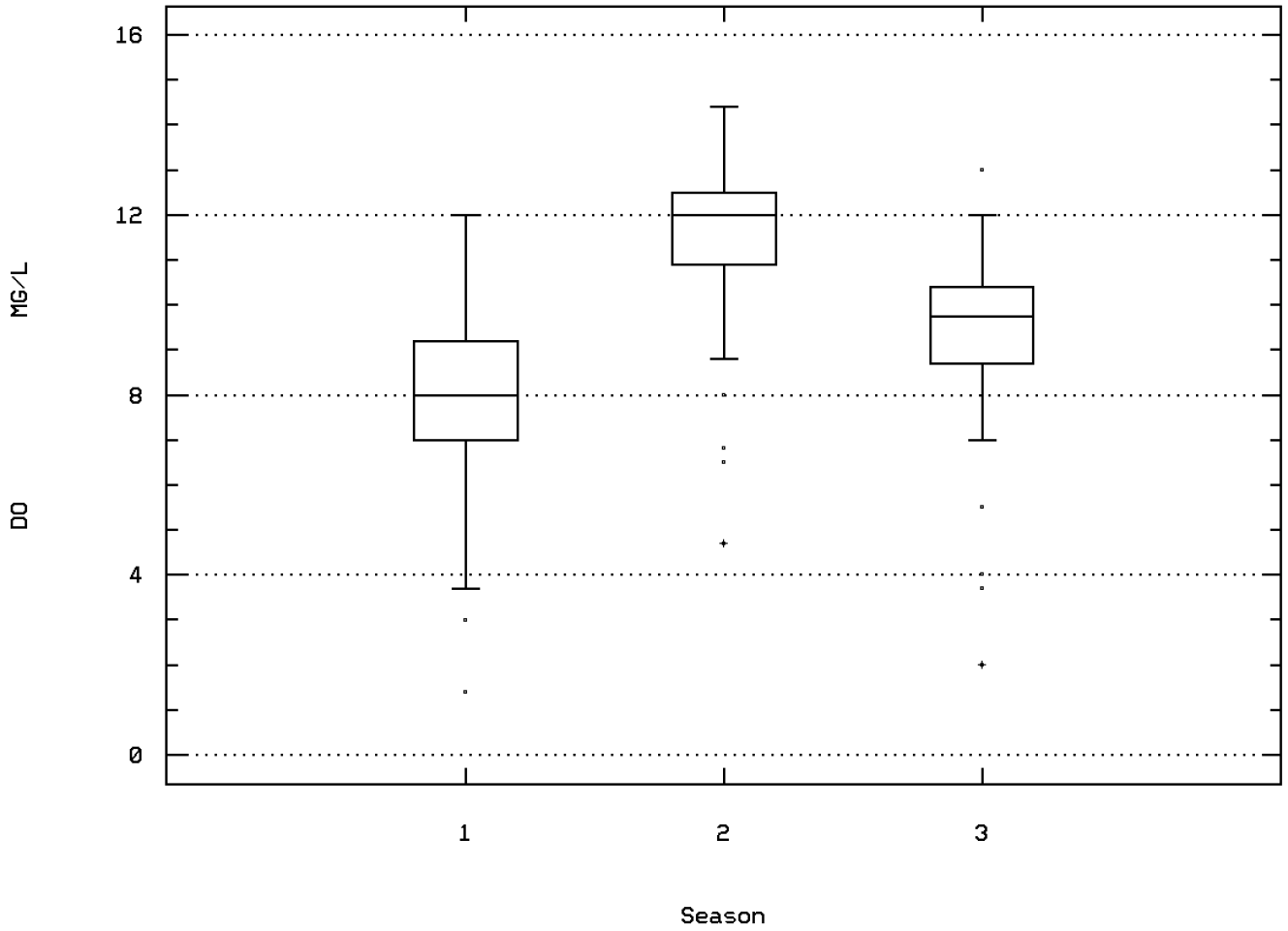
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



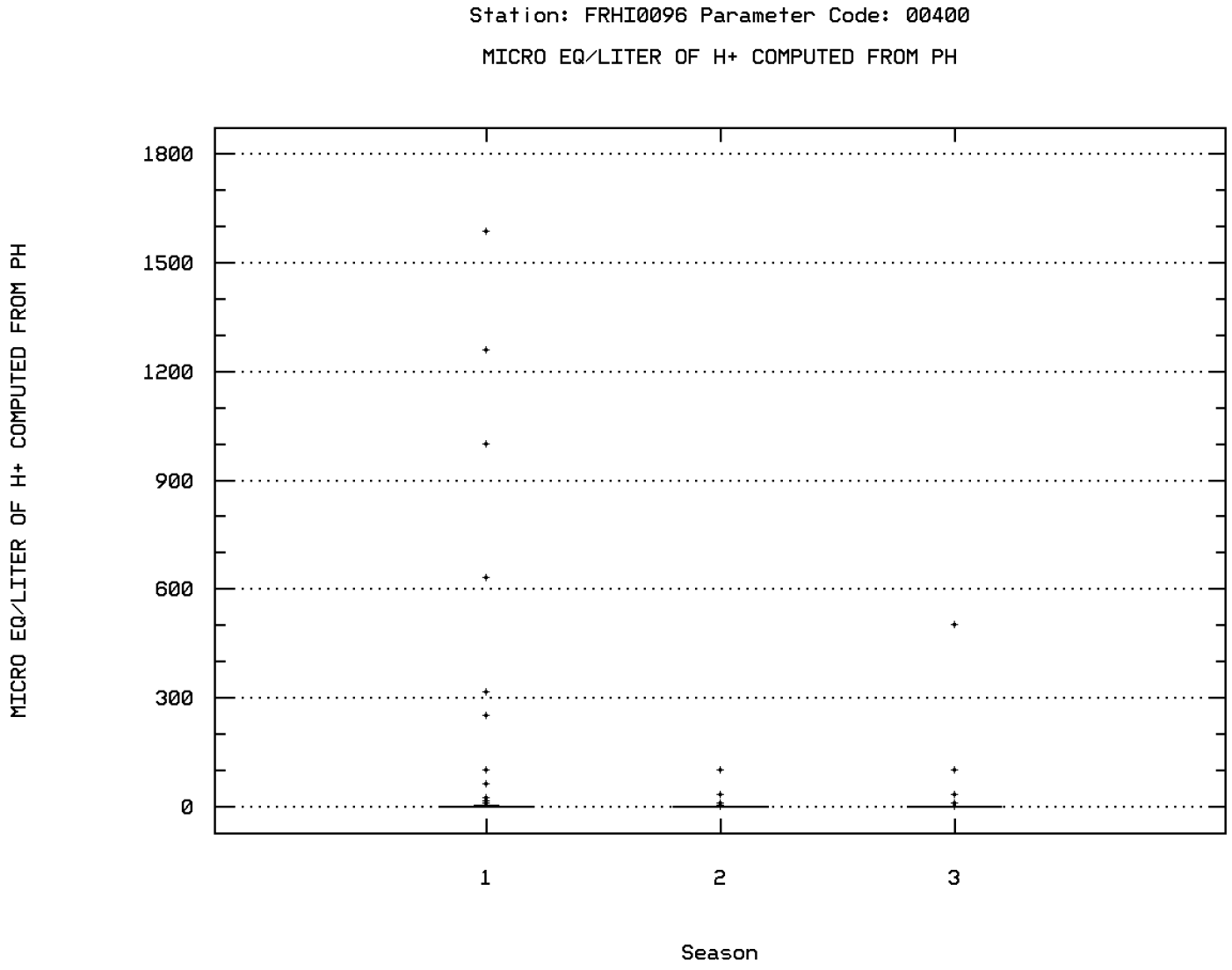
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00300

OXYGEN, DISSOLVED



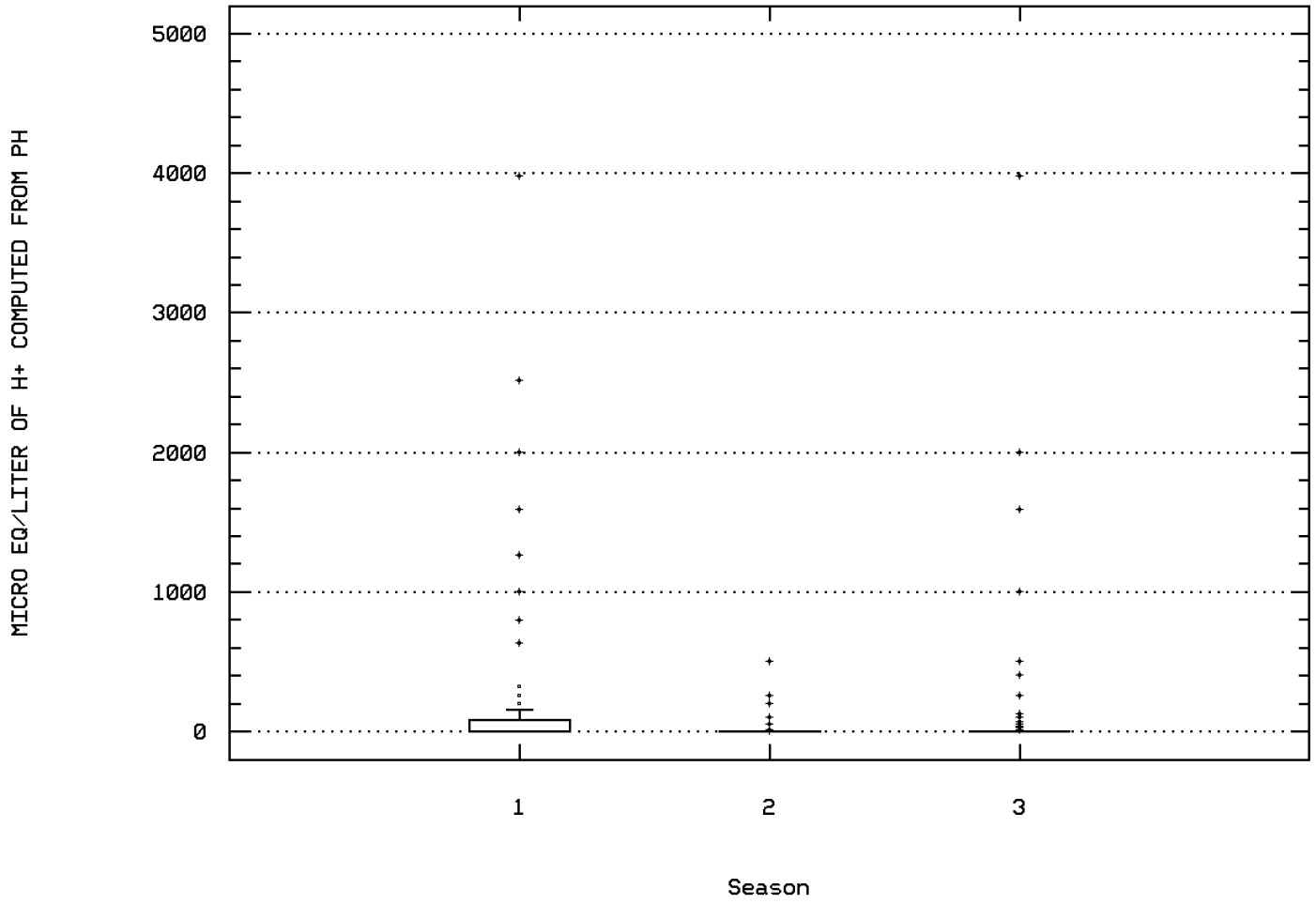
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00403

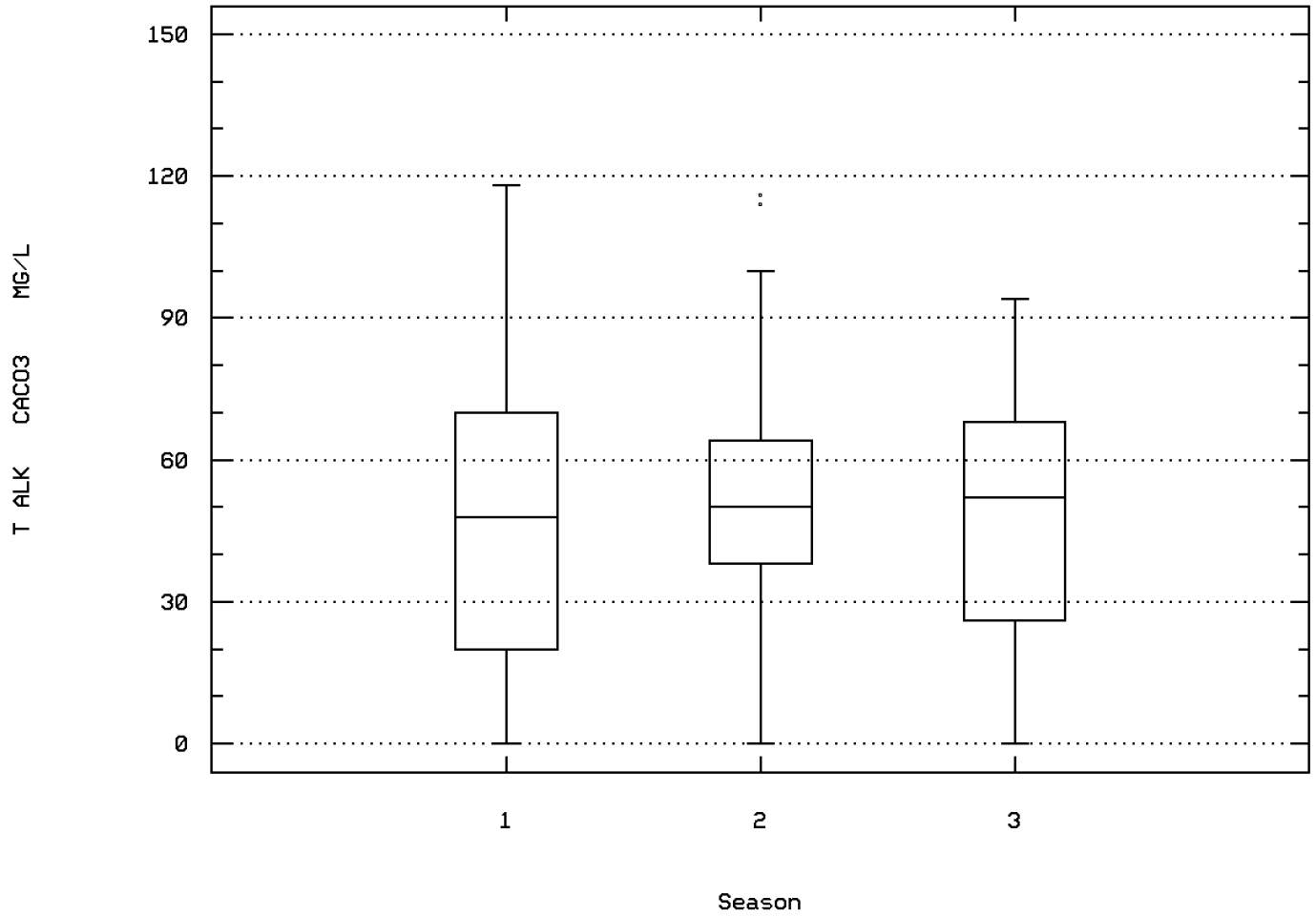
MICRO EQ/LITER OF H+ COMPUTED FROM PH



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00410

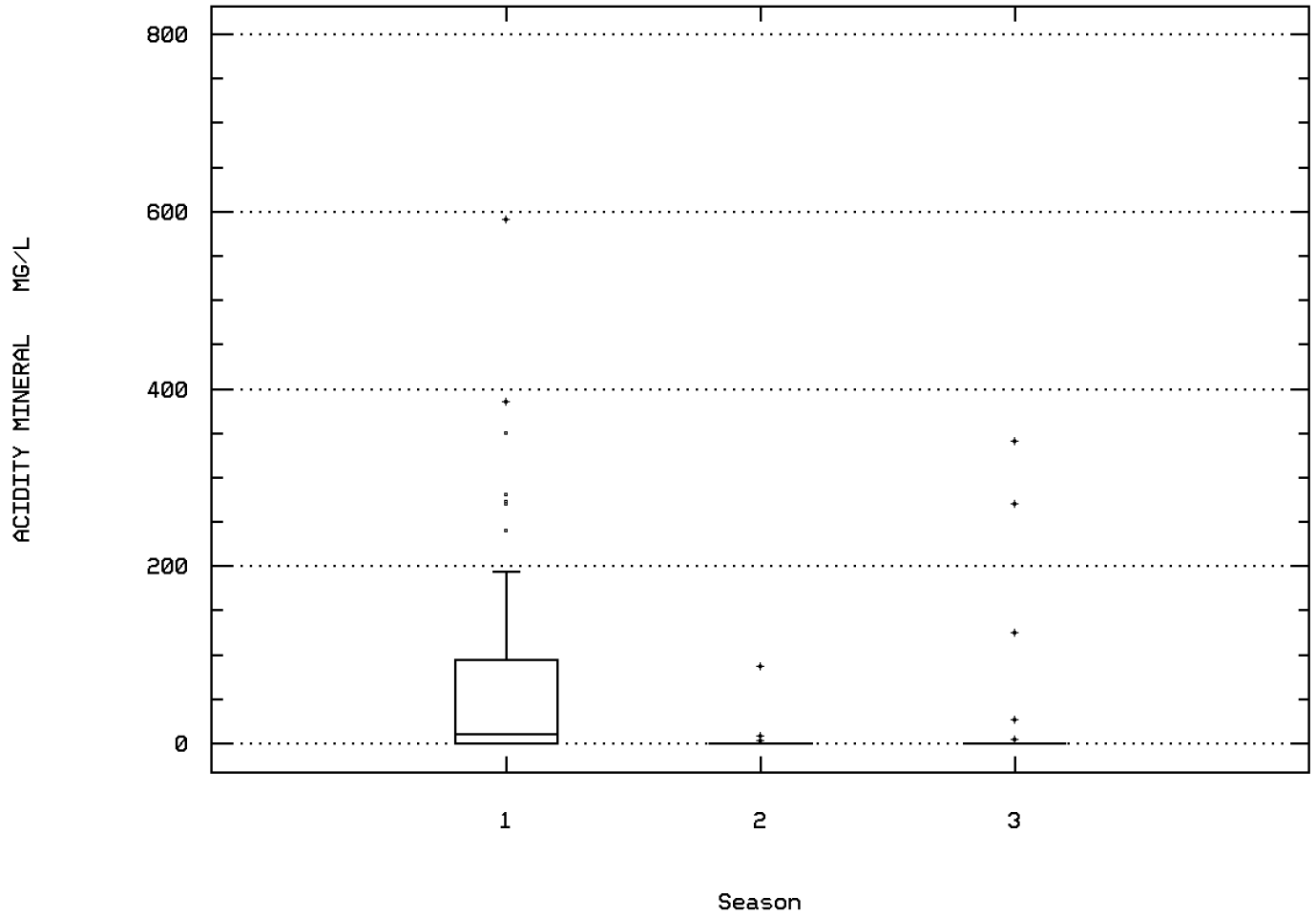
ALKALINITY, TOTAL (MG/L AS CACO3)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00436

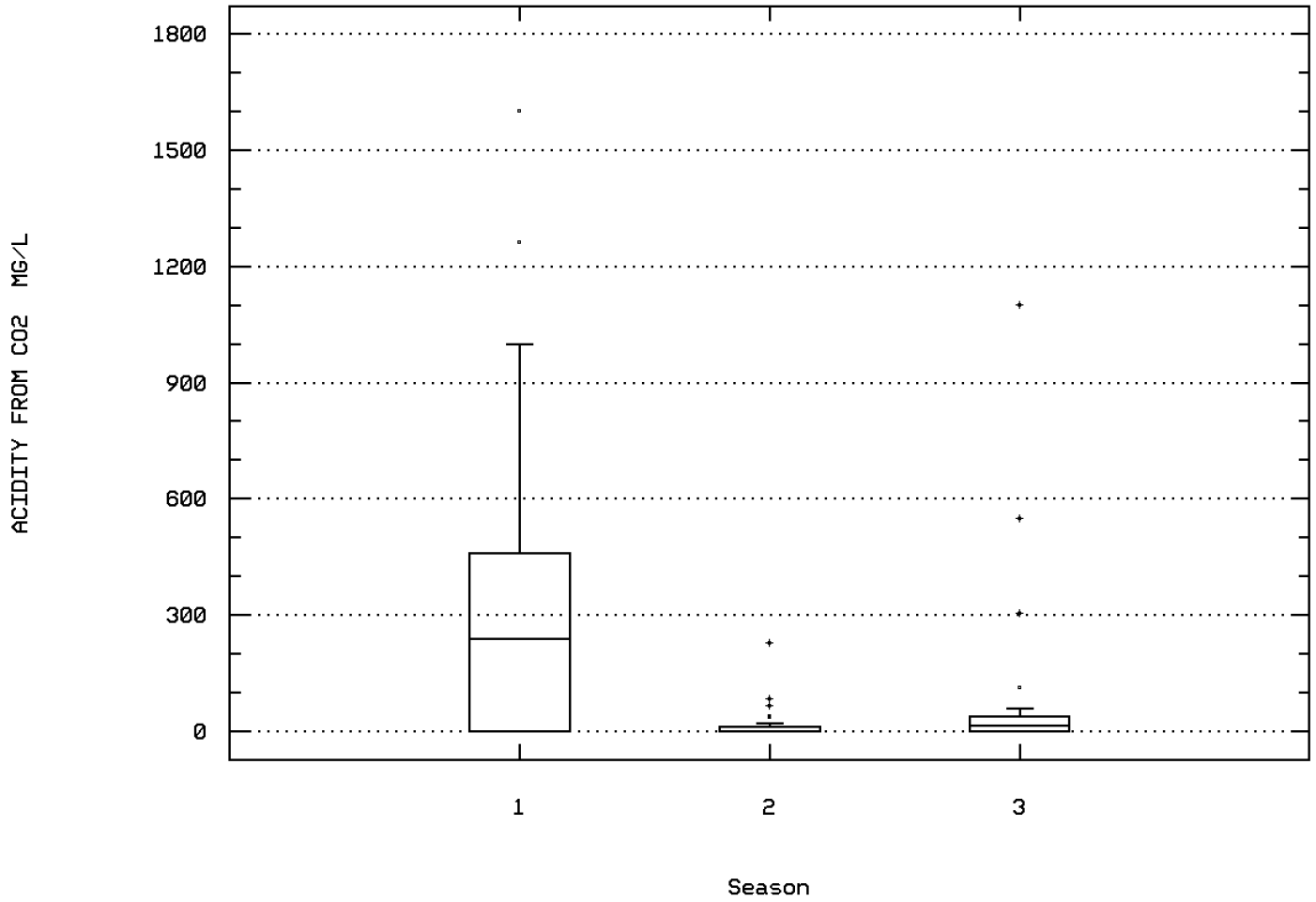
ACIDITY, MINERAL (METHYL ORANGE) (MG/L



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00437

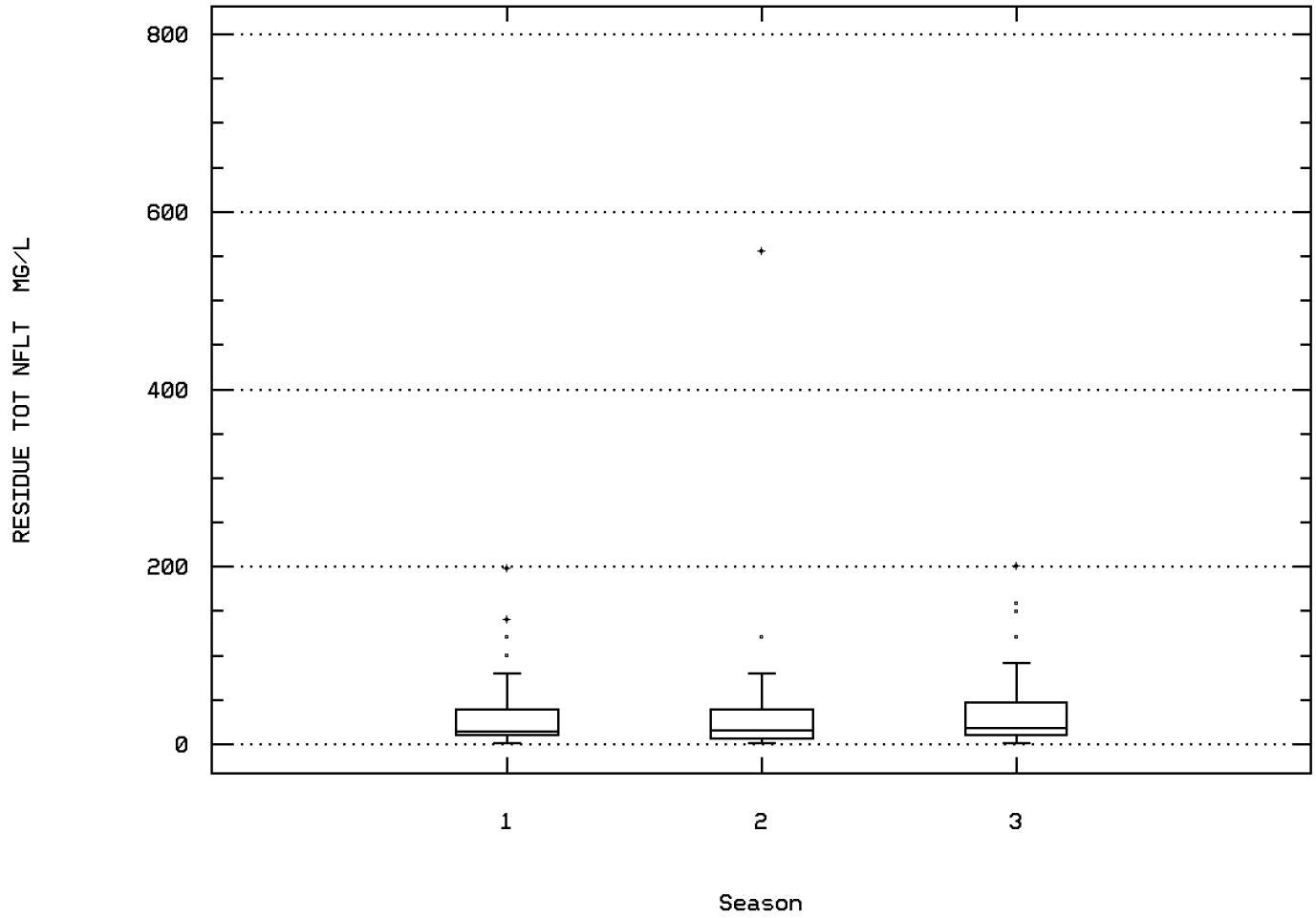
ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS



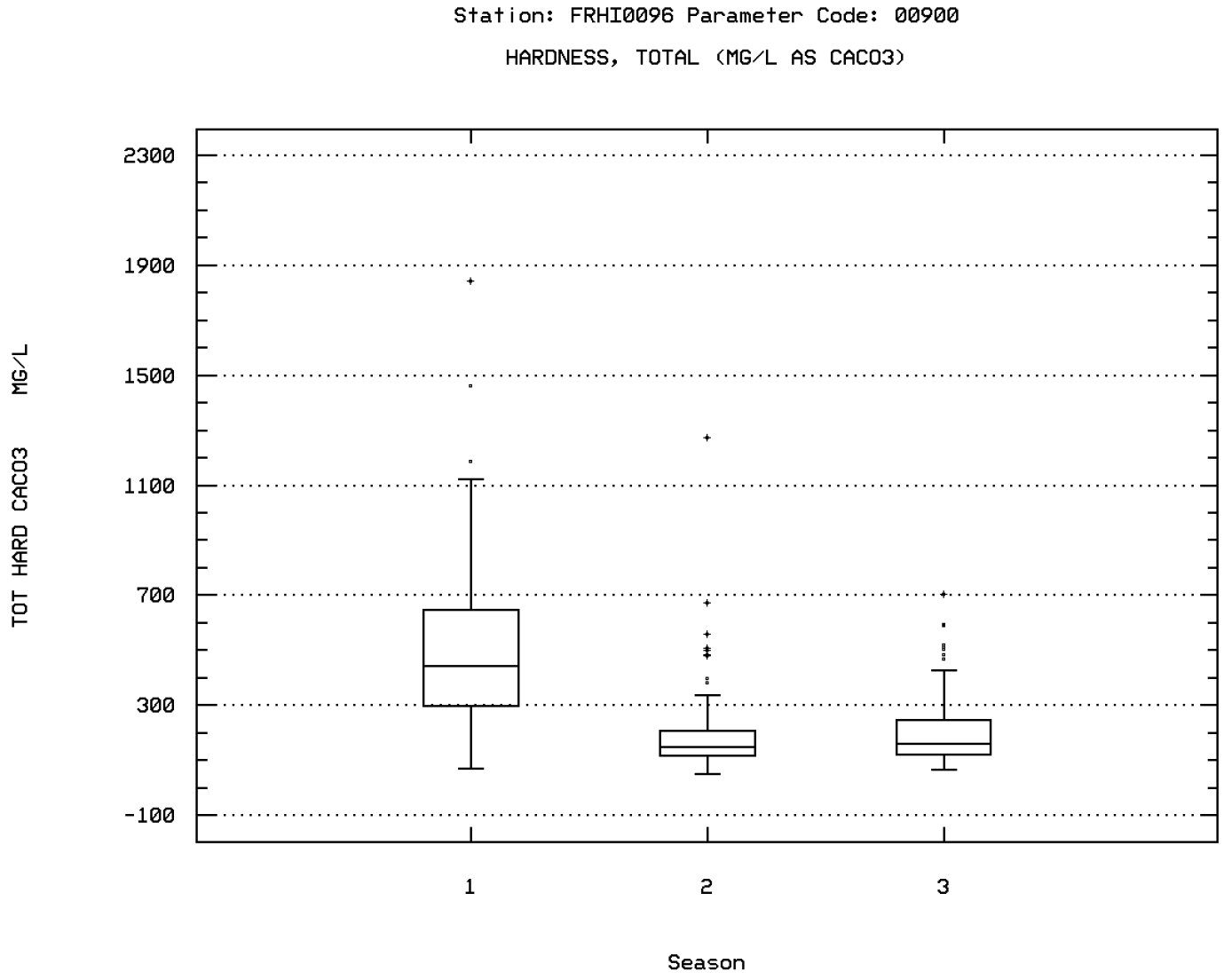
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00530

RESIDUE, TOTAL NONFILTRABLE (MG/L)



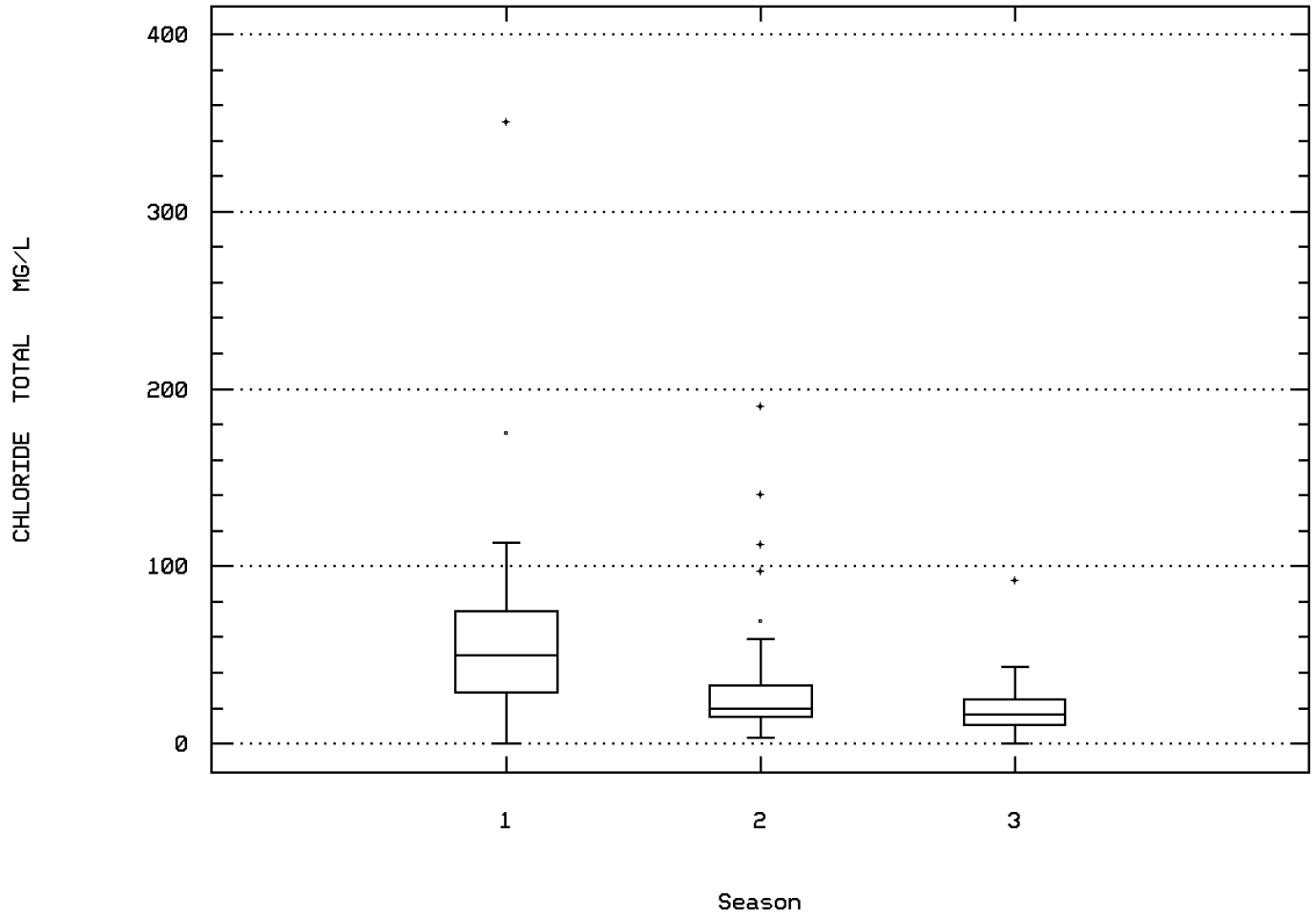
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



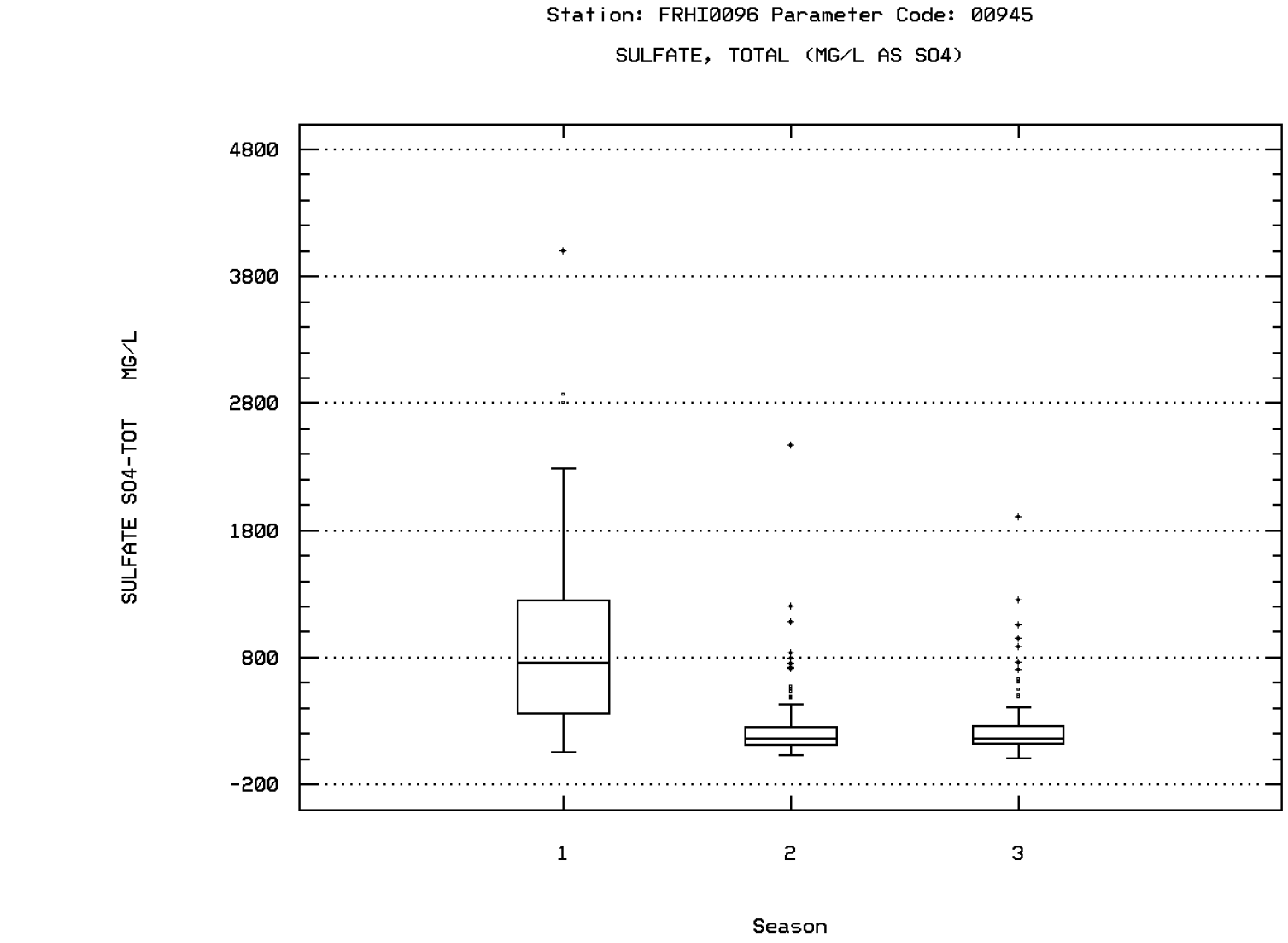
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 00940

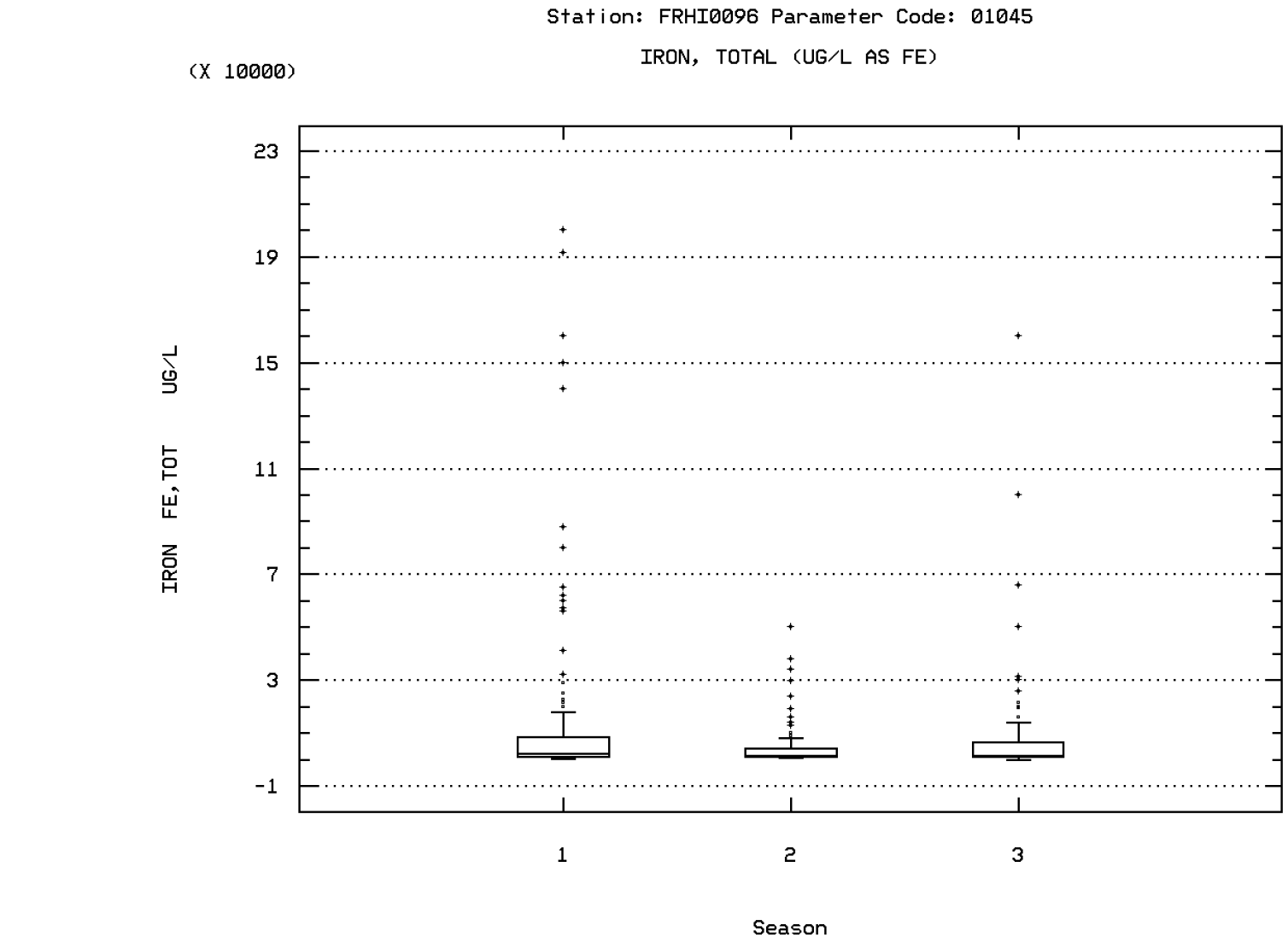
CHLORIDE,TOTAL IN WATER



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



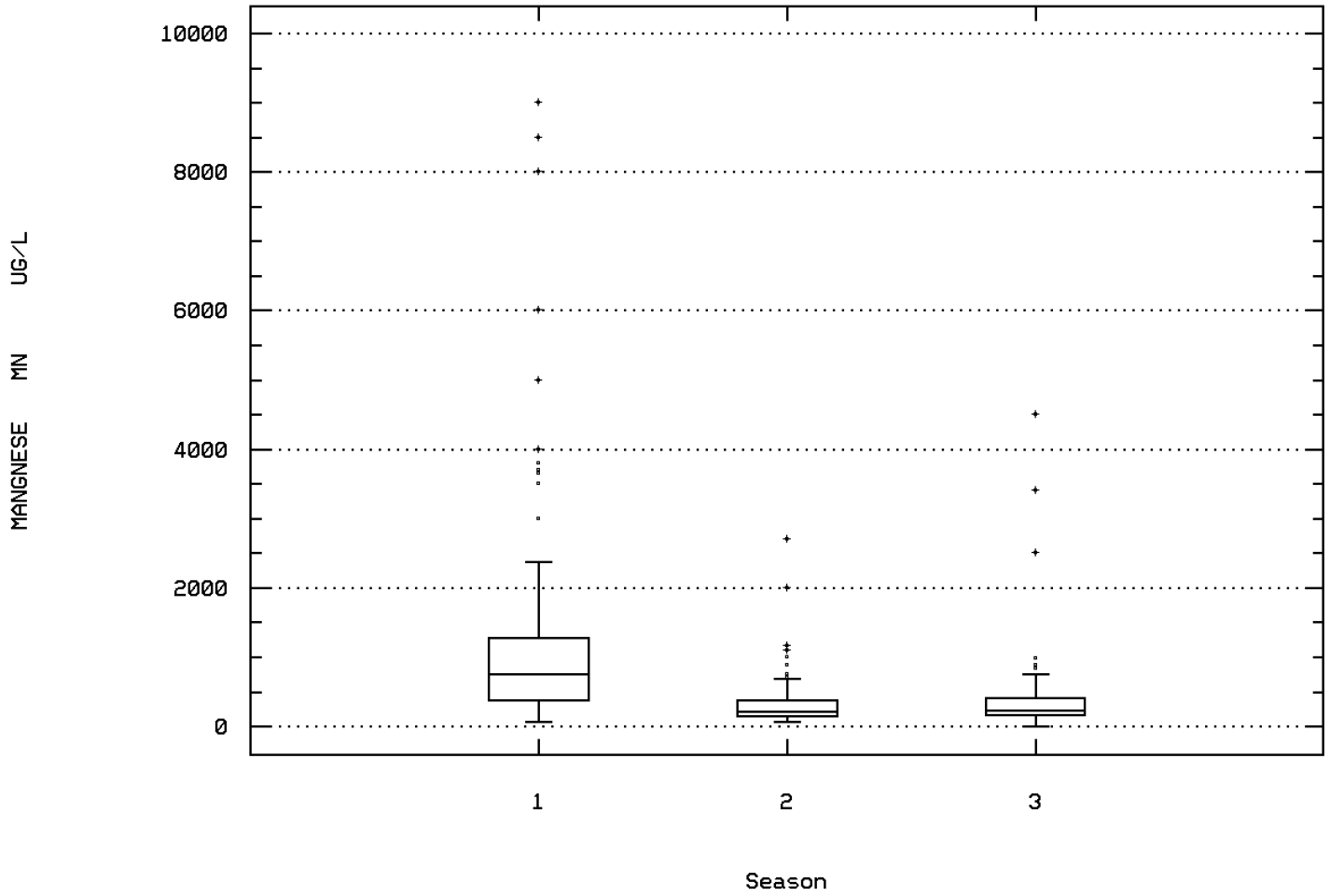
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



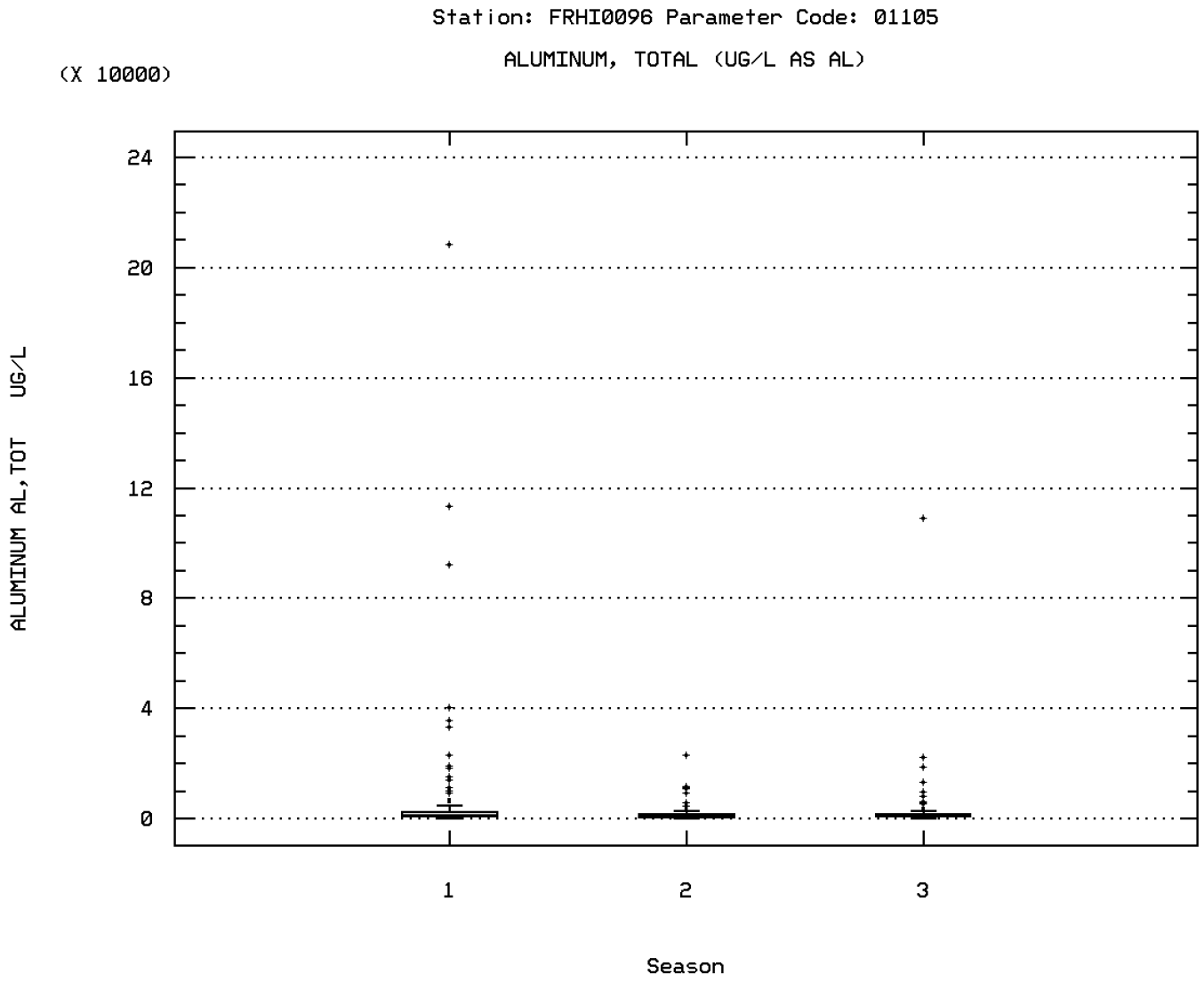
DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station: FRHI0096 Parameter Code: 01055

MANGANESE, TOTAL (UG/L AS MN)



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF



DUNKARD CRK-LR30130 BR NR BOBTOWN (OFF

Station Inventory for Station: FRHI0097

NPS Station ID: FRHI0097 LAT/LON: 39.681809/ -79.973892 Agency: 11COEHUN Date Created: 08/28/93
Location: DREDGE SITE,ROSEDALE COAL CO DOCK, MON RIV-MI 96 FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 4PMP98960 /4PMP18960 /4PMP38960
RMI-Indexes: 1021500 007720 21680 Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 096.00
HUC: 05020003 Depth of Water: 50 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020003 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
DREDGE SITE LOCATED ON THE LEFT BANK OF THE MONONGAHELA RIVER, MILE 96.0, JUST DOWNSTREAM OF THE ROSEDALE COAL COMPANY DOCK -AND APPROXIMATELY 2.0 MILES NORTH OF STAR CITY, WV - ELUTRIATE SAMPLE - MORGANTOWN NORTH, WV-PA QUAD - SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0097

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: FRHI0098

NPS Station ID: FRHI0098 LAT/LON: 39.681392/ -79.974170 Agency: 11COEHUN Date Created: 08/28/93
Location: DREDGE SITE,ROSEDALE COAL CO DOCK,MON RIV-M 96.2 FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 4PMP98962 /4PMP18962 /4PMP38962
RMI-Indexes: 1021500 007720 21680 Within Park Boundary: No
RMI-Miles: 0953.80 0981.00 096.20
HUC: 05020003 Depth of Water: 50 Aquifer:
Major Basin: OHIO RIVER Elevation: 0 Water Body Id:
Minor Basin: MONONGAHELA RIVER ECO Region:
RF1 Index: 05020003 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003021.13 RF3 Mile Point: 21.12 Distance from RF3: 0.05 On/Off RF3:
Description:
DREDGE SITE LOCATED ON THE LEFT BANK OF THE MONONGAHELA RIVER, MILE 96.2, JUST UPSTREAM OF THE ROSEDALE COAL COMPANY DOCK AND APPROXIMATELY 2.0 MILES NORTH OF STAR CITY, WV - ELUTRIATE SAMPLE - MORGANTOWN NORTH, WV-PA QUAD - SAMPLED BY THE U.S. ARMY CORPS OF ENGINEERS, PITTSBURGH, PA.

Parameter Inventory for Station: FRHI0098

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: FRHI0099

NPS Station ID: FRHI0099 LAT/LON: 39.801392/ -79.974727 Agency: 112WRD Date Created: 12/02/81
Location: UNNAMED TRIBUTARY NEAR MAPLETOWN, PA # 210A FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03072742
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 1.40 On/Off RF1:
RF3 Index: 05020005057700.00 RF3 Mile Point: 0.00 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/80-09/04/80	2	18.5	18.5	22.	15.	24.5	4.95	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/22/80-09/04/80	2	0.045	0.045	0.07	0.02	0.001	0.035	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/22/80-09/04/80	2	3625.	3625.	3750.	3500.	31250.	176.777	**	**	**	**
00400	PH (STANDARD UNITS)	04/22/80-09/04/80	2	3.75	3.75	4.1	3.4	0.245	0.495	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/22/80-09/04/80	2	3.622	3.622	4.1	3.4	0.278	0.527	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/22/80-09/04/80	2	238.77	238.77	398.107	79.433	50776.67	225.337	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/22/80-09/04/80	2	715.	715.	910.	520.	76050.	275.772	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/22/80-09/04/80	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/22/80-09/04/80	2	2400.	2400.	2500.	2300.	20000.	141.421	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	09/04/80-09/04/80	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/04/80-09/04/80	1	2700.	2700.	2700.	2700.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/22/80-09/04/80	2	7200.	7200.	13000.	1400.	67280000.	8202.439	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/04/80-09/04/80	1	67000.	67000.	67000.	67000.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/04/80-09/04/80	1	75000.	75000.	75000.	75000.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/22/80-09/04/80	2	7950.	7950.	8000.	7900.	5000.	70.711	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/22/80-09/04/80	2	3740.	3740.	3810.	3670.	9800.	98.995	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/22/80-09/04/80	2	0.45	0.45	0.69	0.21	0.115	0.339	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	04/22/80-09/04/80	2	14.	14.	18.	10.	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: FRHI0099

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	2	1.00	1	1	1.00				1	1	1.00			
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	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: FRHI0100

NPS Station ID: FRHI0100
LAT/LON: 39.807504/ -79.976670
Agency: 112WRD
Date Created: 12/19/81
Location: GRS 599
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 394827079583601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 11.10
On/Off RF1:
RF3 Index: 05020005068300.00
RF3 Mile Point: 0.97
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/27/81-08/27/81	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/27/81-08/27/81	1	7000.	7000.	7000.	7000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/27/81-08/27/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/27/81-08/27/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/81-08/27/81	1	1584.893	1584.893	1584.893	1584.893	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/27/81-08/27/81	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/27/81-08/27/81	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/27/81-08/27/81	1	2511.886	2511.886	2511.886	2511.886	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/27/81-08/27/81	1	1860.	1860.	1860.	1860.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/27/81-08/27/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/27/81-08/27/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/27/81-08/27/81	1	0.33	0.33	0.33	0.33	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/27/81-08/27/81	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/27/81-08/27/81	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/27/81-08/27/81	1	370.	370.	370.	370.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/27/81-08/27/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/27/81-08/27/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/27/81-08/27/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/27/81-08/27/81	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/27/81-08/27/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/27/81-08/27/81	1	5800.	5800.	5800.	5800.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/27/81-08/27/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/27/81-08/27/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	08/27/81-08/27/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/27/81-08/27/81	1	260000.	260000.	260000.	260000.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/27/81-08/27/81	1	270000.	270000.	270000.	270000.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/27/81-08/27/81	1	30000.	30000.	30000.	30000.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/27/81-08/27/81	1	290000.	290000.	290000.	290000.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/27/81-08/27/81	1	260000.	260000.	260000.	260000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/27/81-08/27/81	1	9630.	9630.	9630.	9630.	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/27/81-08/27/81	1	37.	37.	37.	37.	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/27/81-08/27/81	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	1	1.00	1	1	1.00									
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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0101

NPS Station ID: FRHI0101
LAT/LON: 39.800559/ -79.977505
Agency: 112WRD
Date Created: 05/03/80
Location: UNNAMED TRIBUTARY NEAR MAPLETOWN, PA # 210
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072740
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005027
RF1 Mile Point: 5.200
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005002707.20
RF3 Mile Point: 7.20
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	4	18.5	18.	21.	14.	10.	3.162	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	4	0.11	0.18	0.5	0.	0.054	0.232	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	4	432.5	493.75	750.	360.	33389.583	182.728	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/19/81	4	8.15	8.1	8.5	7.6	0.153	0.392	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/19/81	4	8.125	7.966	8.5	7.6	0.177	0.421	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/19/81	4	0.008	0.011	0.025	0.003	0.	0.01	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/19/81	4	2.05	2.15	3.6	0.9	1.71	1.308	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	4	121.	126.5	190.	74.	2843.667	53.326	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-09/04/80	2	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/19/81	4	145.	152.5	230.	90.	4158.333	64.485	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/19/81-08/19/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/29/79	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	2	210.	210.	280.	140.	9800.	98.995	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/19/81	2	74.5	74.5	88.	61.	364.5	19.092	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	2	58.	58.	77.	39.	722.	26.87	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	2	15.6	15.6	22.	9.2	81.92	9.051	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	2	27.65	27.65	46.	9.3	673.445	25.951	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	2	0.75	0.75	1.2	0.3	0.405	0.636	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/19/81	2	19.	19.	26.	12.	98.	9.899	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	2	6.2	6.2	6.3	6.1	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	4	9.5	10.75	18.	6.	26.25	5.123	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	4	61.5	84.5	170.	45.	3369.667	58.049	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	90.	103.333	170.	50.	3733.333	61.101	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	4	180.	185.	310.	70.	13900.	117.898	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	4	55.	67.5	150.	10.	4291.667	65.511	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	4	10.	11.	20.	4.	44.	6.633	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	4	15.	17.5	30.	10.	91.667	9.574	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	4	5.5	5.25	10.	0.	16.917	4.113	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	2 ##	30.	30.	50.	10.	800.	28.284	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	40.	40.	40.	40.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/19/81	4	267.5	344.75	623.	221.	35638.917	188.783	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/19/81	2	321.5	321.5	452.	191.	34060.5	184.555	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	4	0.065	0.1	0.27	0.	0.015	0.123	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	3	0.41	0.52	0.85	0.3	0.085	0.291	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-09/04/80	3	0.	0.067	0.2	0.	0.013	0.115	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	4.6	4.6	4.6	4.6	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: FRHI0101

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0102

NPS Station ID: FRHI0102
LAT/LON: 39.678892/ -79.979448
Agency: 1114O100
Date Created: / /
Location: ROBINSON RUN NEAR MOUTH
FIPS State/County: 54061 WEST VIRGINIA/MONONGALIA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 550616
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020003
Depth of Water: 0
Aquifer:
Major Basin: MONONGAHELA
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020003001
RF1 Mile Point: 7.440
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020003003100.00
RF3 Mile Point: 0.22
Distance from RF3: 0.02
On/Off RF3:
Description:
MONONGAHELA RIVER MILE POINT 96.4 - AT STATE ROUTE 100 BRIDGE APPROX. 0.6 MILES SOUTH OF MAIDSVILLE WEST VIRGINIA

Parameter Inventory for Station: FRHI0102

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: FRHI0103

NPS Station ID: FRHI0103 LAT/LON: 39.745837/ -79.981115 Agency: 112WRD Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 220 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03071935
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005030 RF1 Mile Point: 4.480 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 05020005055000.00 RF3 Mile Point: 0.36 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-09/05/80	3	23.	20.833	23.	16.5	14.083	3.753	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-09/05/80	3	0.05	0.043	0.06	0.02	0.	0.021	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-09/05/80	3	1500.	1550.	1720.	1430.	22900.	151.327	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-09/05/80	3	2.9	2.833	2.9	2.7	0.013	0.115	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-09/05/80	3	2.9	2.823	2.9	2.7	0.014	0.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-09/05/80	3	1258.925	1504.371	1995.262	1258.925	180730.678	425.124	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-09/05/80	3	220.	233.333	320.	160.	6533.333	80.829	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/30/79	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/30/79	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/30/79	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/30/79	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/30/79	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/30/79	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/30/79	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/30/79	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-09/05/80	3	7.	5.667	8.	2.	10.333	3.215	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-09/05/80	3	510.	490.	710.	250.	53200.	230.651	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/30/79	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/30/79	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-09/05/80	2	650.	650.	1200.	100.	605000.	777.817	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-09/05/80	3	9200.	14800.	34000.	1200.	292480000.	17102.047	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-09/05/80	3	9100.	15713.333	38000.	40.	393042533.333	19825.3	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-09/05/80	3	40.	46.667	100.	0.	2533.333	50.332	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-09/05/80	3	4400.	3683.333	6000.	650.	7540833.333	2746.058	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-09/05/80	3	4400.	3636.667	5900.	610.	7433033.333	2726.359	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/30/79	1	21000.	21000.	21000.	21000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-09/05/80	3	958.	886.	1140.	560.	87988.	296.628	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-09/05/80	3	0.08	0.103	0.18	0.05	0.005	0.068	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/30/79	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-09/05/80	3	4.4	4.667	6.5	3.1	2.943	1.716	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	3	3	1.00	2	2	1.00				1	1	1.00			
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	3	1.00	2	2	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0104

NPS Station ID: FRHI0104
LAT/LON: 39.739448/ -79.985282
Agency: 112WRD
Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT TAYLORTOWN, PA # 221
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071930
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005030
RF1 Mile Point: 5.230
Distance from RF1: 10.10
On/Off RF1: OFF
RF3 Index: 05020005042500.00
RF3 Mile Point: 0.87
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	4	18.	18.125	22.	14.5	15.396	3.924	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	4	0.4	0.326	0.5	0.004	0.055	0.234	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	4	895.	995.	1400.	790.	77366.667	278.149	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.25	8.075	8.4	7.4	0.209	0.457	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.247	7.861	8.4	7.4	0.27	0.52	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/20/81	4	0.006	0.014	0.04	0.004	0.	0.017	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	4	2.1	4.75	13.	1.8	30.277	5.502	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	4	200.	197.5	230.	160.	1091.667	33.04	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-09/05/80	3	0.	2.667	8.	0.	21.333	4.619	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	4	240.	237.5	270.	200.	1425.	37.749	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/20/81-08/20/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	2	0.5	0.5	0.6	0.4	0.02	0.141	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	2	410.	410.	440.	380.	1800.	42.426	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	2	210.	210.	210.	210.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	2	105.	105.	110.	100.	50.	7.071	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	2	35.5	35.5	40.	31.	40.5	6.364	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	2	90.5	90.5	150.	31.	7080.5	84.146	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	2	1.9	1.9	3.1	0.7	2.88	1.697	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/20/81	2	28.5	28.5	42.	15.	364.5	19.092	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	2	3.2	3.2	3.4	3.	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	4	10.5	9.	12.	3.	16.667	4.082	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	4	370.	375.	520.	240.	18500.	136.015	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	2	0.35	0.35	0.5	0.2	0.045	0.212	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	2	8.1	8.1	9.5	6.7	3.92	1.98	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/20/81	3	170.	306.667	750.	0.	154633.333	393.234	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	4	935.	865.	1200.	390.	134033.333	366.106	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	4	405.	4707.5	18000.	20.	78584891.667	8864.812	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	4	35.	667.5	2600.	0.	1660891.667	1288.756	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	4	355.	1875.	6700.	90.	10385366.667	3222.633	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	4	360.	1210.	4100.	20.	3759333.333	1938.9	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	08/20/81-08/20/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	400.	400.	400.	400.	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: FRHI0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	2	200.	200.	360.	40.	51200.	226.274	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	360.	360.	360.	360.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	4	724.	770.25	1050.	583.	47414.25	217.748	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	2	777.	777.	980.	574.	82418.	287.085	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	4	0.67	0.598	1.04	0.01	0.213	0.462	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	3	1.14	1.12	1.43	0.79	0.103	0.32	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-09/05/80	3	0.	0.067	0.2	0.	0.013	0.115	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	3	0.75	3	3	1.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									
01091	ZINC, SUSPENDED	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									

& - 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: FRHI0105

NPS Station ID: FRHI0105
LAT/LON: 39.814448/ -80.008337
Agency: 112WRD
Date Created: 05/03/80
Location: UNNAMED TRIBUTARY AT GARARDS FORT, PA # 317
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072725
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005027
RF1 Mile Point: 8.180
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005002707.50
RF3 Mile Point: 7.59
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	4	18.75	18.625	22.	15.	13.229	3.637	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	4	0.7	0.875	2.	0.1	0.703	0.838	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	4	632.5	617.5	705.	500.	7341.667	85.684	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.25	8.125	8.4	7.6	0.143	0.377	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.225	7.989	8.4	7.6	0.167	0.409	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/20/81	4	0.006	0.01	0.025	0.004	0.	0.01	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	4	2.9	3.725	7.6	1.5	7.776	2.789	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	4	220.	210.	250.	150.	2066.667	45.461	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	2	12.	12.	20.	4.	128.	11.314	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	4	260.	252.5	300.	190.	2691.667	51.881	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/23/80-09/04/80	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	2	0.09	0.09	0.1	0.08	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	2	245.	245.	290.	200.	4050.	63.64	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	2	40.5	40.5	41.	40.	0.5	0.707	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	2	71.	71.	83.	59.	288.	16.971	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	2	16.	16.	20.	12.	32.	5.657	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	2	34.	34.	49.	19.	450.	21.213	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	2	0.95	0.95	1.3	0.6	0.245	0.495	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/20/81	2	22.	22.	27.	17.	50.	7.071	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	2	2.8	2.8	2.9	2.7	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	4	3.	3.5	5.	3.	1.	1.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	4	105.	104.5	140.	68.	881.	29.682	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	2	9.4	9.4	10.	8.8	0.72	0.849	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-09/04/80	2	125.	125.	160.	90.	2450.	49.497	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	4	225.	282.5	570.	110.	41025.	202.546	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	4	20.	18.75	30.	5.	106.25	10.308	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	4	65.	65.	130.	0.	4833.333	69.522	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	4	120.	125.	220.	40.	6500.	80.623	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	4	55.	60.	90.	40.	600.	24.495	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	2	25.	25.	40.	10.	450.	21.213	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	4	389.5	370.	463.	238.	9252.667	96.191	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	2	363.5	363.5	459.	268.	18240.5	135.057	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	4	0.855	0.81	1.39	0.14	0.352	0.593	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	4	0.53	0.503	0.63	0.32	0.018	0.133	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	4	0.05	0.125	0.4	0.	0.036	0.189	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0105

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0106

NPS Station ID: FRHI0106 LAT/LON: 39.731948/ -80.011949 Agency: 112WRD Date Created: 05/03/80
Location: UNNAMED TRIBUTARY NEAR MOUNT MORRIS, PA # 310 FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03071925
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020005 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020005 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 05020005003011.56 RF3 Mile Point: 12.52 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/19/81	4	19.25	19.25	23.	15.5	10.417	3.227	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/19/81	4	0.15	0.288	0.8	0.05	0.121	0.347	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/19/81	4	1002.5	1072.5	1810.	475.	305075.	552.336	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/19/81	4	8.05	7.875	8.2	7.2	0.209	0.457	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/19/81	4	8.047	7.661	8.2	7.2	0.27	0.52	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/19/81	4	0.009	0.022	0.063	0.006	0.001	0.028	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/19/81	4	4.05	4.725	8.9	1.9	9.256	3.042	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	4	180.	170.5	250.	72.	6001.	77.466	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	4	8.	7.5	14.	0.	33.	5.745	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/19/81	4	220.	209.5	310.	88.	8961.	94.663	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/19/81	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/19/81	2	520.	520.	820.	220.	180000.	424.264	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/19/81	2	360.	360.	570.	150.	88200.	296.985	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/19/81	2	135.5	135.5	210.	61.	11100.5	105.359	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/19/81	2	43.5	43.5	71.	16.	1512.5	38.891	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/19/81	2	71.	71.	130.	12.	6962.	83.439	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/19/81	2	1.2	1.2	2.	0.4	1.28	1.131	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/19/81	2	18.	18.	26.	10.	128.	11.314	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/19/81	2	3.8	3.8	3.9	3.7	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/19/81	4	7.	6.15	10.	0.6	16.357	4.044	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/19/81	4	375.	432.5	830.	150.	81491.667	285.467	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/19/81	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/19/81	2	10.35	10.35	13.	7.7	14.045	3.748	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/22/80-08/19/81	3	100.	193.333	390.	90.	29033.333	170.392	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/19/81	4	340.	477.5	1100.	130.	185291.667	430.455	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/19/81	4	105.	110.	210.	20.	9800.	98.995	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/19/81	4	10.	50.	180.	0.	7600.	87.178	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/19/81	4	310.	300.	420.	160.	13066.667	114.31	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/19/81	4	220.	255.	400.	180.	10766.667	103.763	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/19/81-08/19/81	1	4200.	4200.	4200.	4200.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/19/81	2	80.	80.	150.	10.	9800.	98.995	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0106

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	08/29/79-08/19/81	4	774.5	873.25	1590.	354.	268198.25	517.879	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/19/81	2	861.	861.	1420.	302.	624962.	790.545	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/19/81	4	0.29	0.388	0.76	0.21	0.066	0.258	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-08/19/81	3	1.09	1.243	2.16	0.48	0.723	0.85	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/19/81	4	0.25	0.525	1.6	0.	0.529	0.727	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	3	0.75	3	2	0.67				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0107

NPS Station ID: FRHI0107
LAT/LON: 39.832309/ -80.013393
Agency: 11NPSWRD
Date Created: 10/25/97
Location: PAGR523R
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FRHI_NURE_04 /4071020
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE MONITORING STATION IS LOCATED ON THE GARARDS FORT PENNSYLVANIA 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS A SPRING OUTSIDE FRIENDSHIP HILL NATIONAL HISTORIC SITE (NPS). SAMPLES WERE FILTERED THROUGH A 0.8 UM FILTER AT THE SITE. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATABASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATABASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER LABORATORY. DATA PROCESSED AND UPLOADED TO STORET BY J. CHRIS ECHOHAWK; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 TEL. 970-225-3516 FAX. 970-225-9965.

Parameter Inventory for Station: FRHI0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/77-08/20/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/20/77-08/20/77	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/77-08/20/77	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/77-08/20/77	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/77-08/20/77	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/20/77-08/20/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/77-08/20/77	1	30560.	30560.	30560.	30560.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/20/77-08/20/77	1	13490.	13490.	13490.	13490.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/20/77-08/20/77	1	-0.1	-0.1	-0.1	-0.1	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/20/77-08/20/77	1	83.	83.	83.	83.	0.	0.	**	**	**	**
50700	INVALID PARAMETER	08/20/77-08/20/77	1	144.	144.	144.	144.	0.	0.	**	**	**	**
50760	INVALID PARAMETER	08/20/77-08/20/77	1	45400.	45400.	45400.	45400.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/20/77-08/20/77	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: FRHI0107

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									

& - 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: FRHI0108

NPS Station ID: FRHI0108
LAT/LON: 39.812226/ -80.013338
Agency: 112WRD
Date Created: 05/03/80
Location: WHITELEY CREEK AT GARARDS FORT, PA # 316
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072720
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005027
RF1 Mile Point: 8.180
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005055900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	4	19.25	19.5	25.	14.5	21.833	4.673	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	4	17.	22.1	54.	0.4	609.507	24.688	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	4	500.	501.25	670.	335.	22972.917	151.568	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.1	7.925	8.5	7.	0.443	0.665	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.055	7.52	8.5	7.	0.661	0.813	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/20/81	4	0.009	0.03	0.1	0.003	0.002	0.047	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	4	2.1	3.975	11.	0.7	23.496	4.847	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	4	102.	100.	140.	56.	1704.	41.28	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	3	4.	4.667	10.	0.	25.333	5.033	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	4	115.	119.5	180.	68.	2534.333	50.342	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/04/80-09/04/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	2	0.295	0.295	0.5	0.09	0.084	0.29	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	2	150.	150.	190.	110.	3200.	56.569	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	2	53.	53.	58.	48.	50.	7.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	2	44.	44.	54.	34.	200.	14.142	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	2	10.05	10.05	13.	7.1	17.405	4.172	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	2	47.5	47.5	67.	28.	760.5	27.577	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	2	1.6	1.6	2.1	1.1	0.5	0.707	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/20/81	2	38.5	38.5	43.	34.	40.5	6.364	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	2	3.05	3.05	3.4	2.7	0.245	0.495	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	4	24.	22.25	30.	11.	80.917	8.995	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	4	98.5	96.75	130.	60.	1128.917	33.599	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	2	6.45	6.45	9.9	3.	23.805	4.879	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-08/20/81	3	220.	223.333	300.	150.	5633.333	75.056	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	4	225.	237.5	390.	110.	14091.667	118.708	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	4	65.	342.5	1200.	40.	327358.333	572.152	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	4	5.	7.5	20.	0.	91.667	9.574	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	4	65.	70.	110.	40.	1000.	31.623	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	4	60.	72.5	140.	30.	2291.667	47.871	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	2	285.	285.	550.	20.	140450.	374.767	**	**	**	**

** - Less than 9 observations ## - 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: FRHI0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	40.	40.	40.	40.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/30/79-08/20/81	4	310.5	301.5	397.	188.	9748.333	98.734	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	2	300.5	300.5	385.	216.	14280.5	119.501	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	4	9.85	14.185	36.6	0.44	258.662	16.083	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	3	0.5	0.46	0.54	0.34	0.011	0.106	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	4	0.05	0.075	0.2	0.	0.009	0.096	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0108

				Total	Exceed	Prop.	7/01-10/31			11/01-3/14			3/15-6/30			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0109

NPS Station ID: FRHI0109
LAT/LON: 39.765004/ -80.014171
Agency: 112WRD
Date Created: 12/02/81
Location: GRS 250
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 394554080005101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.10
On/Off RF1:
RF3 Index: 05020005047900.00
RF3 Mile Point: 0.25
Distance from RF3: 0.11
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/26/81-08/26/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/81-08/26/81	1	4100.	4100.	4100.	4100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/81-08/26/81	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/81-08/26/81	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/81-08/26/81	1	398.107	398.107	398.107	398.107	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/26/81-08/26/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/26/81-08/26/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/81-08/26/81	1	1584.893	1584.893	1584.893	1584.893	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/26/81-08/26/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	1	610.	610.	610.	610.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/26/81-08/26/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/26/81-08/26/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/81-08/26/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/81-08/26/81	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/81-08/26/81	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/81-08/26/81	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/81-08/26/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/26/81-08/26/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/26/81-08/26/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/81-08/26/81	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/81-08/26/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/81-08/26/81	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/26/81-08/26/81	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/81-08/26/81	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	08/26/81-08/26/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/26/81-08/26/81	1	110000.	110000.	110000.	110000.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/26/81-08/26/81	1	120000.	120000.	120000.	120000.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/26/81-08/26/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/26/81-08/26/81	1	90000.	90000.	90000.	90000.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/81-08/26/81	1	98000.	98000.	98000.	98000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/26/81-08/26/81	1	4080.	4080.	4080.	4080.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/81-08/26/81	1	3480.	3480.	3480.	3480.	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/26/81-08/26/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/26/81-08/26/81	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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	1	1.00	1	1	1.00									
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									
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	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: FRHI0110

NPS Station ID: FRHI0110
LAT/LON: 39.766392/ -80.020838
Agency: 112WRD
Date Created: 09/08/79
Location: MEADOW RUN AT DAVISTOWN, PA # 318
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03071920
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005002302.74
RF3 Mile Point: 2.74
Distance from RF3: 0.08
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/79-08/19/81	9	18.5	16.389	22.	4.	42.986	6.556	4.	11.	21.75	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/79-08/19/81	9	2.	3.1	10.	0.2	10.6	3.256	0.2	0.35	5.	10.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/14/79-08/19/81	9	405.	514.222	1000.	290.	69997.944	264.571	290.	319.	712.5	1000.
00400	PH (STANDARD UNITS)	06/14/79-08/19/81	9	8.2	8.067	8.5	7.4	0.153	0.391	7.4	7.7	8.4	8.5
00400	CONVERTED PH (STANDARD UNITS)	06/14/79-08/19/81	9	8.2	7.9	8.5	7.4	0.184	0.429	7.4	7.7	8.4	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/79-08/19/81	9	0.006	0.013	0.04	0.003	0.	0.012	0.003	0.004	0.02	0.04
00403	PH, LAB, STANDARD UNITS SU	03/24/81-08/19/81	2	8.15	8.15	8.2	8.1	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/24/81-08/19/81	2	8.147	8.147	8.2	8.1	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/81-08/19/81	2	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/19/81	3	2.	2.133	3.8	0.6	2.573	1.604	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/79-08/19/81	9	110.	135.444	250.	68.	4736.778	68.824	68.	80.5	201.	250.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/14/79-03/24/81	4	0.	2.5	10.	0.	25.	5.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/19/81	3	95.	162.667	300.	93.	14146.333	118.938	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/23/80-08/19/81	3	2.	4.	10.	0.	28.	5.292	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/19/81	2	0.12	0.12	0.2	0.04	0.013	0.113	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/28/80-08/28/80	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	08/28/80-08/28/80	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/19/81	2	120.	120.	130.	110.	200.	14.142	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/19/81	2	14.5	14.5	29.	0.	420.5	20.506	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/19/81	2	34.5	34.5	37.	32.	12.5	3.536	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/19/81	2	8.15	8.15	9.8	6.5	5.445	2.333	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/19/81	2	103.	103.	190.	16.	15138.	123.037	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/19/81	2	3.95	3.95	7.2	0.7	21.125	4.596	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/19/81	2	49.5	49.5	75.	24.	1300.5	36.062	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/19/81	2	2.4	2.4	2.9	1.9	0.5	0.707	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/19/81	3	15.	34.667	83.	6.	1772.333	42.099	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/79-08/19/81	9	59.	75.333	140.	45.	1204.5	34.706	45.	56.	101.5	140.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/19/81	2	0.35	0.35	0.6	0.1	0.125	0.354	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/19/81	2	7.2	7.2	8.8	5.6	5.12	2.263	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/79-08/03/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/79-08/03/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/79-08/03/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	06/14/79-08/19/81	8	260.	352.5	840.	190.	46850.	216.449	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/14/79-08/19/81	9	330.	385.556	870.	220.	41427.778	203.538	220.	255.	455.	870.

** - Less than 9 observations ## - 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: FRHI0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	06/14/79-08/19/81	9	30.	42.222	70.	20.	344.444	18.559	20.	30.	60.	70.
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/79-08/03/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/79-08/03/79	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/14/79-08/19/81	9	20.	25.556	70.	0.	502.778	22.423	0.	10.	40.	70.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/14/79-08/19/81	9	70.	63.333	100.	30.	750.	27.386	30.	35.	90.	100.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/14/79-08/19/81	8	40.	40.625	80.	5.	803.125	28.339	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/19/81-08/19/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/19/81-08/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/79-08/03/79	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/19/81-08/19/81	1	260.	260.	260.	260.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/19/81	2	45.	45.	70.	20.	1250.	35.355	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/19/81-08/19/81	1	240.	240.	240.	240.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/79-08/03/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/79-08/03/79	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/03/79-08/19/81	8	249.5	316.	623.	165.	32161.429	179.336	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/19/81	2	395.	395.	625.	165.	105800.	325.269	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/03/79-08/19/81	8	2.01	1.84	4.36	0.27	2.097	1.448	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/03/79-08/19/81	8	0.34	0.43	0.85	0.22	0.06	0.245	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	06/14/79-04/23/80	4 ##	0.05	0.075	0.2	0.	0.007	0.087	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	08/19/81-08/19/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/03/79-08/03/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/14/79-08/11/81	6	12.5	15.333	30.	2.	112.667	10.614	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/14/79-08/11/81	6	0.045	0.083	0.24	0.01	0.009	0.095	**	**	**	**
82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	08/28/80-08/28/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/19/81-08/19/81	1	2.2	2.2	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: FRHI0110

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	9	0	0.00	5	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00				4	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			
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.	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.	9	0	0.00	5	0	0.00				4	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0111

NPS Station ID: FRHI0111
LAT/LON: 39.816115/ -80.027503
Agency: 112WRD
Date Created: 05/03/80
Location: MINOR RUN NEAR GARARDS FORT, PA # 315
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072715
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005027
RF1 Mile Point: 8.790
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005005000.00
RF3 Mile Point: 0.08
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/30/79-08/20/81	4	17.5	17.	21.	12.	22.	4.69	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/30/79-08/20/81	4	1.25	1.388	3.	0.05	1.851	1.36	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/30/79-08/20/81	4	406.5	412.5	505.	332.	5124.333	71.584	**	**	**	**
00400	PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.1	8.	8.3	7.5	0.127	0.356	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/30/79-08/20/81	4	8.089	7.878	8.3	7.5	0.146	0.383	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/30/79-08/20/81	4	0.008	0.013	0.032	0.005	0.	0.012	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/30/79-08/20/81	4	2.6	2.975	5.1	1.6	2.336	1.528	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	4	145.	154.	240.	86.	4477.333	66.913	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	3	2.	3.333	8.	0.	17.333	4.163	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/30/79-08/20/81	4	170.	182.5	290.	100.	6825.	82.614	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/30/79-08/20/81	2	0.145	0.145	0.2	0.09	0.006	0.078	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/30/79-08/20/81	2	150.	150.	180.	120.	1800.	42.426	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/30/79-08/20/81	2	18.	18.	36.	0.	648.	25.456	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/79-08/20/81	2	43.5	43.5	52.	35.	144.5	12.021	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/79-08/20/81	2	10.2	10.2	13.	7.4	15.68	3.96	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/30/79-08/20/81	2	26.	26.	39.	13.	338.	18.385	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/30/79-08/20/81	2	0.9	0.9	1.3	0.5	0.32	0.566	**	**	**	**
00932	SODIUM, PERCENT	08/30/79-08/20/81	2	25.	25.	31.	19.	72.	8.485	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/30/79-08/30/79	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/30/79-08/20/81	2	1.95	1.95	2.	1.9	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/30/79-08/20/81	4	5.	5.25	7.	4.	1.583	1.258	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/30/79-08/20/81	4	51.	40.	58.	0.	746.	27.313	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/30/79-08/20/81	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/30/79-08/20/81	2	7.95	7.95	8.6	7.3	0.845	0.919	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-08/20/81	3	230.	220.	350.	80.	18300.	135.277	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/30/79-08/20/81	4	350.	367.5	660.	110.	53225.	230.705	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/30/79-08/20/81	4	60.	65.	110.	30.	1100.	33.166	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/30/79-08/20/81	4	20.	35.	100.	0.	2033.333	45.092	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/30/79-08/20/81	4	50.	62.5	130.	20.	2491.667	49.917	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/30/79-08/20/81	4	25.	27.5	40.	20.	91.667	9.574	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/30/79-08/20/81	2	25.	25.	40.	10.	450.	21.213	**	**	**	**
01107	ALUMINUM, SUSPENDED (UG/L AS AL)	08/20/81-08/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: FRHI0111

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	08/30/79-08/20/81	4	252.	251.5	311.	191.	3000.333	54.775	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/30/79-08/20/81	2	216.	216.	265.	167.	4802.	69.296	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/30/79-08/20/81	4	0.765	0.793	1.6	0.04	0.5	0.707	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/30/79-08/20/81	3	0.38	0.353	0.42	0.26	0.007	0.083	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/30/79-08/20/81	4	0.	0.05	0.2	0.	0.01	0.1	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	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

EPA Water Quality Criteria Analysis for Station: FRHI0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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: FRHI0112

NPS Station ID: FRHI0112
LAT/LON: 39.778615/ -80.048338
Agency: 112WRD
Date Created: 12/02/81
Location: 200
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 394643080025401
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 7.20
On/Off RF1:
RF3 Index: 05020005006200.14
RF3 Mile Point: 0.14
Distance from RF3: 0.27
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/26/81-08/26/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/26/81-08/26/81	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/26/81-08/26/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/26/81-08/26/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/81-08/26/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/26/81-08/26/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/26/81-08/26/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/26/81-08/26/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/26/81-08/26/81	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/26/81-08/26/81	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/26/81-08/26/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/26/81-08/26/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/26/81-08/26/81	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/26/81-08/26/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/26/81-08/26/81	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/26/81-08/26/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/26/81-08/26/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/26/81-08/26/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/26/81-08/26/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/26/81-08/26/81	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/26/81-08/26/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/26/81-08/26/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/26/81-08/26/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/26/81-08/26/81	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	08/26/81-08/26/81	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/26/81-08/26/81	1	220.	220.	220.	220.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/26/81-08/26/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/26/81-08/26/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/26/81-08/26/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/26/81-08/26/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/26/81-08/26/81	1	347.	347.	347.	347.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/26/81-08/26/81	1	315.	315.	315.	315.	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/26/81-08/26/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/26/81-08/26/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: FRHI0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 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									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
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: FRHI0113

NPS Station ID: FRHI0113
LAT/LON: 39.813059/ -80.066116
Agency: 112WRD
Date Created: 05/03/80
Location: FROSTY RUN NEAR GARARDS FORT, PA # 313
FIPS State/County: 42059 PENNSYLVANIA/GREENE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03072710
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005027
RF1 Mile Point: 11.610
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005002715.51
RF3 Mile Point: 17.26
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: FRHI0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/29/79-08/20/81	4	16.5	17.	23.	12.	24.667	4.967	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/29/79-08/20/81	4	4.	4.502	10.	0.008	16.976	4.12	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/29/79-08/20/81	4	247.5	287.5	415.	240.	7241.667	85.098	**	**	**	**
00400	PH (STANDARD UNITS)	08/29/79-08/20/81	4	7.65	7.625	8.2	7.	0.322	0.568	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/29/79-08/20/81	4	7.522	7.381	8.2	7.	0.402	0.634	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/29/79-08/20/81	4	0.03	0.042	0.1	0.006	0.002	0.044	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/20/81-08/20/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/20/81-08/20/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/81-08/20/81	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/29/79-08/20/81	4	4.95	5.675	11.	1.8	20.609	4.54	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	4	84.	98.	170.	54.	2514.667	50.146	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	4	9.	7.	10.	0.	22.667	4.761	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/29/79-08/20/81	4	104.	118.5	200.	66.	3297.	57.42	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/29/79-08/20/81	2	0.415	0.415	0.8	0.03	0.296	0.544	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/29/79-08/20/81	2	116.5	116.5	150.	83.	2244.5	47.376	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/29/79-08/29/79	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/29/79-08/20/81	2	34.5	34.5	44.	25.	180.5	13.435	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/29/79-08/20/81	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/29/79-08/20/81	2	15.35	15.35	22.	8.7	88.445	9.405	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/29/79-08/20/81	2	0.6	0.6	0.8	0.4	0.08	0.283	**	**	**	**
00932	SODIUM, PERCENT	08/29/79-08/20/81	2	21.	21.	24.	18.	18.	4.243	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/29/79-08/29/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/29/79-08/20/81	2	2.75	2.75	2.9	2.6	0.045	0.212	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/29/79-08/20/81	4	7.5	7.	9.	4.	4.667	2.16	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/29/79-08/20/81	4	36.	36.75	41.	34.	8.917	2.986	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/29/79-08/20/81	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/29/79-08/20/81	2	5.45	5.45	9.	1.9	25.205	5.02	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/23/80-08/20/81	3	210.	820.	2100.	150.	1229700.	1108.918	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/29/79-08/20/81	4	1170.	1302.5	2700.	170.	1666825.	1291.056	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/29/79-08/20/81	4	35.	80.	230.	20.	10066.667	100.333	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	08/29/79-08/20/81	4	130.	135.	260.	20.	10700.	103.441	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/29/79-08/20/81	4	190.	177.5	260.	70.	8625.	92.871	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/29/79-08/20/81	4	45.	43.5	80.	4.	982.333	31.342	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/20/81-08/20/81	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/20/81-08/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	08/20/81-08/20/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/29/79-08/20/81	2 ##	72.5	72.5	140.	5.	9112.5	95.459	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/29/79-08/20/81	4	157.5	183.25	265.	153.	2976.25	54.555	**	**	**	**

** - 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 time series plot

Parameter Inventory for Station: FRHI0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/29/79-08/29/79	1	130.	130.	130.	130.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/29/79-08/20/81	4	1.635	1.823	4.01	0.01	2.715	1.648	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/29/79-09/05/80	2	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	08/29/79-08/20/81	4	0.2	0.15	0.2	0.	0.01	0.1	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	08/20/81-08/20/81	1	2.2	2.2	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: FRHI0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	3	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00				1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	3	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	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									

& - 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 FRHI Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	189	21	0.11	69	2	0.03	61	11	0.18	59	8	0.14			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	270	15	0.06	137	1	0.01	56	1	0.02	77	13	0.17			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	800	0	0.00	625	0	0.00	1	0	0.00	174	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	640	9	0.01	275	6	0.02	193	0	0.00	172	3	0.02			
00400	PH	Other-Hi Lim.	9.	1820	0	0.00	1072	0	0.00	339	0	0.00	409	0	0.00			
		Other-Lo Lim.	6.5	1820	1019	0.56	1072	650	0.61	339	155	0.46	409	214	0.52			
00403	PH, LAB	Other-Hi Lim.	9.	1263	0	0.00	539	0	0.00	406	0	0.00	318	0	0.00			
		Other-Lo Lim.	6.5	1263	724	0.57	539	333	0.62	406	225	0.55	318	166	0.52			
00406	PH, FIELD	Other-Hi Lim.	9.	76	0	0.00	30	0	0.00	38	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	76	76	1.00	30	30	1.00	38	38	1.00	8	8	1.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	12	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	835	0	0.00	269	0	0.00	326	0	0.00	240	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00				3	0	0.00	1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	841	1	0.00	274	1	0.00	324	0	0.00	243	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	175	0	0.00	104	0	0.00	24	0	0.00	47	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	50	1	0.02	43	1	0.02	3	0	0.00	4	0	0.00			
00719	CYANIDE, FREE,IN WATER&WASTEWATERS, HBG	Fresh Acute	22.	68	4	0.06	26	3	0.12	22	1	0.05	20	0	0.00			
		Drinking Water	200.	68	0	0.00	26	0	0.00	22	0	0.00	20	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	123 &	24	0.20	42	13	0.31	40	6	0.15	41	5	0.12			
		Drinking Water	0.2	123 &	5	0.04	42	4	0.10	40	1	0.03	41	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	803	0	0.00	306	0	0.00	260	0	0.00	237	0	0.00			
		Drinking Water	250.	803	1	0.00	306	1	0.00	260	0	0.00	237	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1356	295	0.22	538	192	0.36	424	41	0.10	394	62	0.16			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	125	125	1.00	51	51	1.00	51	51	1.00	23	23	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	220	0	0.00	98	0	0.00	58	0	0.00	64	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	182	1	0.01	57	0	0.00	70	0	0.00	55	1	0.02			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	15	0	0.00	3	0	0.00	6	0	0.00	6	0	0.00			
		Drinking Water	50.	1 &	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	33	0	0.00	33	0	0.00									
		Drinking Water	50.	33	0	0.00	33	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	22	0	0.00	10	0	0.00	6	0	0.00	6	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	68	0	0.00	68	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	14	0	0.00	2	0	0.00	6	0	0.00	6	0	0.00			
		Drinking Water	4.	5 &	5	1.00	2	2	1.00	2	2	1.00	1	1	1.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	68	0	0.00	68	0	0.00									
		Drinking Water	4.	22 &	0	0.00	22	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	14 &	4	0.29	12	3	0.25	1	0	0.00	1	1	1.00			
		Drinking Water	5.	14 &	3	0.21	12	2	0.17	1	0	0.00	1	1	1.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	92	5	0.05	85	4	0.05	4	1	0.25	3	0	0.00			
		Drinking Water	5.	92	4	0.04	85	3	0.04	4	1	0.25	3	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	24	0	0.00	11	0	0.00	7	0	0.00	6	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.	106	0	0.00	96	0	0.00	5	0	0.00	5	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	25	13	0.52	12	2	0.17	7	5	0.71	6	6	1.00			
		Drinking Water	1300.	25	0	0.00	12	0	0.00	7	0	0.00	6	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	439 &	60	0.14	193	36	0.19	145	14	0.10	101	10	0.10			
		Drinking Water	1300.	454	0	0.00	208	0	0.00	145	0	0.00	101	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	22 &	0	0.00	12	0	0.00	7	0	0.00	3	0	0.00			
		Drinking Water	15.	11 &	0	0.00	10	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	446	1	0.00	200	0	0.00	145	1	0.01	101	0	0.00			
		Drinking Water	15.	437 &	28	0.06	192	13	0.07	144	10	0.07	101	5	0.05			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	24	0	0.00	12	0	0.00	6	0	0.00	6	0	0.00			
		Drinking Water	100.	24	14	0.58	12	2	0.17	6	6	1.00	6	6	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	453	0	0.00	207	0	0.00	145	0	0.00	101	0	0.00			
		Drinking Water	100.	453	8	0.02	207	5	0.02	145	1	0.01	101	2	0.02			
01090	ZINC, DISSOLVED	Fresh Acute	120.	42	20	0.48	29	8	0.28	7	6	0.86	6	6	1.00			
		Drinking Water	5000.	42	0	0.00	29	0	0.00	7	0	0.00	6	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	10	0	0.00	10	0	0.00									
		Drinking Water	5000.	10	0	0.00	10	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	499	24	0.05	240	17	0.07	153	6	0.04	106	1	0.01			
		Drinking Water	5000.	499	0	0.00	240	0	0.00	153	0	0.00	106	0	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 FRHI Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	11 &	0	0.00	2	0	0.00	6	0	0.00	3	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01097	ANTIMONY, TOTAL	Fresh Acute	88.	59	1	0.02	59	1	0.02									
		Drinking Water	6.	1 &	1	1.00	1	1	1.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	50.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	16	0	0.00	16	0	0.00									
		Drinking Water	50.	16	0	0.00	16	0	0.00									
07000	TRITIUM, TOTAL	Drinking Water	20000.	25	0	0.00	11	0	0.00	11	0	0.00	3	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.	60	4	0.07	28	2	0.07	17	2	0.12	15	0	0.00			
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	66	8	0.12	23	2	0.09	24	3	0.13	19	3	0.16			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	475	203	0.43	174	62	0.36	165	68	0.41	136	73	0.54			
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									
32260	CARBON TETRACHLORIDE EXTRACTABLES	Fresh Acute	35.2	1	0	0.00	1	0	0.00									
		Drinking Water	0.005	1	1	1.00	1	1	1.00									
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00									
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	2	2	1.00	2	2	1.00									
50060	CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	10	1	0.10				7	1	0.14	3	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	155	0	0.00	49	0	0.00	48	0	0.00	58	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	14 &	0	0.00	10	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	14 &	0	0.00	10	0	0.00	1	0	0.00	3	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	204	12	0.06	77	5	0.06	80	5	0.06	47	2	0.04			

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

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

There are STORET Data for Every Level I I&M Parameter Group Within

the FRHI 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 FRHI Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1238	523	450	265	51
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	1	0	0	1	1
00435	ACIDITY, TOTAL (MG/L AS CACO3)	371	178	120	73	47
00440	BICARBONATE ION (MG/L AS HCO3)	239	0	51	188	22
00445	CARBONATE ION (MG/L AS CO3)	99	0	10	89	14
		1948	701	631	616	135 (68)[1]

pH		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	1857	912	493	452	70
00403	PH, LAB (STANDARD UNITS)	1263	645	379	239	50
00406	PH, FIELD (STANDARD UNITS)	76	76	0	0	3
		3196	1633	872	691	123 (80)[1]

Conductivity		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	1079	667	347	65	32
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1325	482	426	417	55
		2404	1149	773	482	87 (75)[1]

Dissolved Oxygen		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	800	460	340	0	17
00300	OXYGEN, DISSOLVED (MG/L)	640	311	103	226	16
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	1	0	0	1	1
		1441	771	443	227	34 (33)[1]

Water Temperature		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1994	988	599	407	69
		1994	988	599	407	69 (69)[1]

Flow		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00058	FLOW RATE, GALLONS/MIN.	6	3	0	3	4
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	3	0	3	0	3
00060	FLOW, STREAM, MEAN DAILY CFS	816	282	312	222	12
00061	FLOW, STREAM, INSTANTANEOUS CFS	626	351	210	65	28
00065	STAGE, STREAM (FEET)	398	276	122	0	4
		1849	912	647	290	51 (40)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	189	0	79	110	8
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	270	60	186	24	13
00077	TRANSPARENCY, SECCHI DISC (INCHES)	42	0	33	9	14
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	504	351	51	102	19
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	204	109	95	0	3
		1209	520	444	245	57 (29)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	7	0	0	7	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	19	11	0	8	2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	988	514	356	118	21
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	4	0	0	4	4
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	841	460	318	63	12
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11	11	0	0	1
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	211	72	24	115	17
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	175	48	24	103	15
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	50	11	39	0	22
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	1	0	0	1	1
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	1	0	0	1	1
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	35	0	0	35	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	195	0	0	195	8
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	1	0	0	1	1
		2539	1127	761	651	107 (47)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	82	0	0	82	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	42	0	1	41	6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	994	524	357	113	21
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	21	19	0	2	10
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	123	11	3	109	13
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	8	0	0	8	3
		1270	554	361	355	54 (32)[1]

Chlorophyll		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	9	0	0	9	3
		9	0	0	9	3 (3)[1]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	1358	521	417	420	50
00945	SULFATE, TOTAL (MG/L AS SO4)	1431	533	452	446	48
00946	SULFATE, DISSOLVED (MG/L AS SO4)	125	121	4	0	9
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	287	10	93	184	36
		3201	1185	966	1050	143 (62)[1]

Bacteria		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	61	0	1	60	4
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	66	0	0	66	2
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	476	139	285	52	12
		603	139	286	178	18 (12)[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.

Toxic Elements		Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	14	14	0	0	5
01097	ANTIMONY, TOTAL (UG/L AS SB)	59	51	8	0	6
01000	ARSENIC, DISSOLVED (UG/L AS AS)	15	14	0	1	6
01002	ARSENIC, TOTAL (UG/L AS AS)	33	28	3	2	10
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	14	14	0	0	5
01012	BERYLLIUM, TOTAL (UG/L AS BE)	68	60	8	0	6
01025	CADMIUM, DISSOLVED (UG/L AS CD)	25	22	0	3	15
01027	CADMIUM, TOTAL (UG/L AS CD)	96	67	26	3	13
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	24	22	0	2	15
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	1	0	0	1	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	106	76	27	3	12
01040	COPPER, DISSOLVED (UG/L AS CU)	25	22	0	3	15
01042	COPPER, TOTAL (UG/L AS CU)	456	426	27	3	14
01049	LEAD, DISSOLVED (UG/L AS PB)	25	22	0	3	15
01051	LEAD, TOTAL (UG/L AS PB)	450	420	27	3	14
71890	MERCURY, DISSOLVED (UG/L AS HG)	2	2	0	0	2
71900	MERCURY, TOTAL (UG/L AS HG)	17	11	3	3	5
01065	NICKEL, DISSOLVED (UG/L AS NI)	24	22	0	2	15
01067	NICKEL, TOTAL (UG/L AS NI)	455	426	26	3	14
01145	SELENIUM, DISSOLVED (UG/L AS SE)	14	14	0	0	5
01147	SELENIUM, TOTAL (UG/L AS SE)	18	18	0	0	6
01077	SILVER, TOTAL (UG/L AS AG)	2	2	0	0	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	42	22	17	3	32
01091	ZINC, SUSPENDED (UG/L ZN)	10	0	10	0	10
01092	ZINC, TOTAL (UG/L AS ZN)	501	433	65	3	32
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	68	35	33	0	2
00720	CYANIDE, TOTAL (MG/L AS CN)	124	37	85	2	5
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	1	1	0	0	1
32104	BROMOFORM, WHOLE WATER, (UG/L)	1	1	0	0	1
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	1	1	0	0	1
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	1	0	1	0	1
34301	CHLOROBENZENE, TOTAL (UG/L)	1	1	0	0	1
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	1	1	0	0	1
34311	CHLOROETHANE, TOTAL (UG/L)	1	1	0	0	1
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	1	1	0	0	1
32106	CHLOROFORM, WHOLE WATER (UG/L)	2	1	1	0	2
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	1	1	0	0	1
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	1	1	0	0	1
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	1	1	0	0	1
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	1	1	0	0	1
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	1	1	0	0	1
34371	ETHYLBENZENE, TOTAL (UG/L)	1	1	0	0	1
34413	METHYL BROMIDE, TOTAL (UG/L)	1	1	0	0	1
34418	METHYL CHLORIDE, TOTAL (UG/L)	1	1	0	0	1
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	2	1	1	0	2
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	1	1	0	0	1
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	1	1	0	0	1
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	1	1	0	0	1
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	1	1	0	0	1
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	1	1	0	0	1
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	1	1	0	0	1
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	1	1	0	0	1
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	1	1	0	0	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.

	Toxic Elements - Continued ...	Total Obs.	01/01/85 to 09/03/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	1	1	0	0	1
34461	PHENANTHRENE, TOTAL (UG/L)	2	2	0	0	1
		2721	2310	368	43	313 (48)[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	1948	701	36.0	68	64.2	28.6	02/07/49-09/03/97	40.1
pH	3196	1633	51.1	80	75.5	40.0	02/07/49-09/03/97	65.8
Conductivity	2404	1149	47.8	75	70.8	32.1	02/07/49-09/03/97	49.5
Dissolved Oxygen	1441	771	53.5	33	31.1	43.7	06/19/62-09/03/97	40.9
Water Temperature	1994	988	49.5	69	65.1	28.9	06/19/62-09/03/97	56.6
Flow	1849	912	49.3	40	37.7	46.2	02/07/49-04/08/97	38.4
Clarity/Turbidity	1209	520	43.0	29	27.4	41.7	06/19/62-09/03/97	34.3
Nitrate/Nitrogen	2539	1127	44.4	47	44.3	54.0	02/07/49-09/03/97	52.3
Phosphate/Phosphorus	1270	554	43.6	32	30.2	39.7	10/09/60-09/03/97	34.4
Chlorophyll	9	0	0.0	3	2.8	3.0	04/24/73-10/05/73	9.0[!]
Sulfates/Total Dissolved Solids/Hardness	3201	1185	37.0	62	58.5	51.6	02/07/49-09/03/97	65.9
Bacteria	603	139	23.1	12	11.3	50.3	06/19/62-09/03/97	17.1
Toxic Elements	2721	2310	84.9	48	45.3	56.7	09/19/72-09/03/97	109.0

[!]Period of record for this parameter group was less than one year. Value shown is the total observations.

Water Quality Observations
Outside STORET Edit Criteria for FRHI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0005	01055	MANGANESE, TOTAL (UG/L AS MN)	880816	1047	7070.0000000	112WRD	395031079493201	
FRHI0006	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780705		3020.0000000	11NPSWRD	FRHI_NURE_15	
FRHI0020	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	780705		18930.0000000	11NPSWRD	FRHI_NURE_14	
FRHI0020	00930	SODIUM, DISSOLVED (MG/L AS NA)	780705		7880.0000000	11NPSWRD	FRHI_NURE_14	
FRHI0023	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770822		10000.0000000	11NPSWRD	FRHI_NURE_06	
FRHI0023	00930	SODIUM, DISSOLVED (MG/L AS NA)	770822		14130.0000000	11NPSWRD	FRHI_NURE_06	
FRHI0042	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770822		3290.0000000	11NPSWRD	FRHI_NURE_07	
FRHI0042	00930	SODIUM, DISSOLVED (MG/L AS NA)	770822		13260.0000000	11NPSWRD	FRHI_NURE_07	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621001		3400.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621005		3200.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621103		4600.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621111		4200.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621127		5400.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621218		3600.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621219		3600.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	621227		5000.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630111		3800.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630117		5000.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630128		3800.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630203		4000.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630207		4500.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630219		3900.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630313		3800.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630317		4500.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630319		4100.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630402		4100.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630424		3400.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630427		3400.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630515		3400.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630517		3500.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630525		4000.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630604		3600.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630609		5200.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	630630		3700.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	661004		3700.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670331		4000.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670410		868001.0000000	112WRD	03063000	X
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670421		4100.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670425		4100.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670510		6100.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670518		5400.0000000	112WRD	03063000	

Water Quality Observations
Outside STORET Edit Criteria for FRHI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670531		3800.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670606		4000.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670616		3500.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670623		3200.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670701		3300.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670712		3300.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670728		3200.0000000	112WRD	03063000	
FRHI0043	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	670804		3500.0000000	112WRD	03063000	
FRHI0047	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770823		6300.0000000	11NPSWRD	FRHI_NURE_09	
FRHI0047	00930	SODIUM, DISSOLVED (MG/L AS NA)	770823		11720.0000000	11NPSWRD	FRHI_NURE_09	
FRHI0053	01055	MANGANESE, TOTAL (UG/L AS MN)	790830	0900	5900.0000000	112WRD	03071704	
FRHI0053	01055	MANGANESE, TOTAL (UG/L AS MN)	800422	1000	5900.0000000	112WRD	03071704	
FRHI0053	01055	MANGANESE, TOTAL (UG/L AS MN)	800905	1030	6700.0000000	112WRD	03071704	
FRHI0053	01055	MANGANESE, TOTAL (UG/L AS MN)	810819	1900	8100.0000000	112WRD	03071704	
FRHI0053	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790830	0900	6000.0000000	112WRD	03071704	
FRHI0053	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800422	1000	6300.0000000	112WRD	03071704	
FRHI0053	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800905	1030	7100.0000000	112WRD	03071704	
FRHI0053	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810819	1900	7400.0000000	112WRD	03071704	
FRHI0053	01105	ALUMINUM, TOTAL (UG/L AS AL)	810819	1900	40000.0000000	112WRD	03071704	
FRHI0053	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	790830	0900	25000.0000000	112WRD	03071704	
FRHI0053	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	810819	1900	22000.0000000	112WRD	03071704	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	881027		1492.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890110		1510.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890308		1166.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890418		1323.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890502		1010.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890606		1209.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890706		1239.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890725		1174.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890808		1156.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890823		1175.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	890906		1200.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	891004		1257.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	891017		1235.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	891128		1216.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	891213		1253.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	900703		1140.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910621		1261.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	930210		1172.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00435	ACIDITY, TOTAL (MG/L AS CACO3)	930701		1200.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	00946	SULFATE, DISSOLVED (MG/L AS SO4)	881027		2850.0000000	11NPSWRD	FRHI_DOE_D1	

Water Quality Observations
Outside STORET Edit Criteria for FRHI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0054	00946	SULFATE, DISSOLVED (MG/L AS SO4)	890110		2675.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	881027		88400.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890110		82000.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890308		67900.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890418		79800.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890502		57400.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890606		72500.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890706		68000.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890725		65400.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890808		70200.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890823		70100.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	890906		73900.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	891004		74200.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	891017		76900.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	891128		72100.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	891213		74500.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	900103		58800.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	900703		66000.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910621		73200.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	930210		73500.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	930324		54500.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	930701		73860.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0054	01145	SELENIUM, DISSOLVED (UG/L AS SE)	930701		400.0000000	11NPSWRD	FRHI_DOE_D1	
FRHI0055	00435	ACIDITY, TOTAL (MG/L AS CACO3)	830309		1672.0000000	11NPSWRD	FRHI_BOM_1	
FRHI0055	00946	SULFATE, DISSOLVED (MG/L AS SO4)	830309		2860.0000000	11NPSWRD	FRHI_BOM_1	
FRHI0055	01047	IRON, FERROUS (UG/L AS FE)	830309		80400.0000000	11NPSWRD	FRHI_BOM_1	
FRHI0055	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830309		11800.0000000	11NPSWRD	FRHI_BOM_1	
FRHI0055	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	830309		71400.0000000	11NPSWRD	FRHI_BOM_1	
FRHI0055	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	830309		4548.0000000	11NPSWRD	FRHI_BOM_1	
FRHI0057	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	840808	1345	7574.0000000	21PA	WQN0703	
FRHI0057	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	840912	1330	5222.0000000	21PA	WQN0703	
FRHI0057	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	841010	1205	7749.0000000	21PA	WQN0703	
FRHI0057	50060	CHLORINE, TOTAL RESIDUAL (MG/L)	841113	0915	12.0000000	21PA	WQN0703	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	891128		1223.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910626		1303.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910703		1261.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910718		1325.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910723		1358.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910730		1423.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910807		1386.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910815		1409.0000000	11NPSWRD	FRHI_DOE_D2	

Water Quality Observations
Outside STORET Edit Criteria for FRHI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910820		1403.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910828		1328.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910905		1430.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910911		1463.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910919		1269.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910925		1406.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911002		1495.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911009		1531.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911017		1510.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911023		1615.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911031		1587.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911106	1200	1303.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911106	1200	1598.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911113		1532.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911119		1612.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911126		1553.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911211		1457.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911220		1730.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911227		1664.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920102		1730.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920109		1548.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920116		1652.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920122		1619.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920129		1534.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920205		1554.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920212		1641.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920220		1540.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920316		1543.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920414		1850.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920527		1702.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920629		1755.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920723		1723.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920917		1793.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	921023		1847.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	921106		1750.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	921207		1869.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	930210		1958.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	930324		1484.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	930701		1600.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911002		2516.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911009		2501.0000000	11NPSWRD	FRHI_DOE_D2	

Water Quality Observations
Outside STORET Edit Criteria for FRHI

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911017		2550.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911023		2645.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911031		2625.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911106	1200	2725.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911106	1200	2725.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911113		2663.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911126		2600.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911220		2800.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911227		2725.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920102		2775.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920116		2775.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920122		2775.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920129		2550.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920205		2575.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920212		2625.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920414		2605.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920629		2740.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920723		2801.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920917		2786.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	921023		2811.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	921106		2579.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	921207		2793.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	00946	SULFATE, DISSOLVED (MG/L AS SO4)	930210		2857.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	891128		69000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910626		73100.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910703		72700.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910718		75500.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910723		75200.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910730		75100.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910807		76800.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910815		78600.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910820		78900.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910828		80600.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910905		78500.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910911		82200.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910919		69700.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910925		77700.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911002		87000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911009		86300.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911017		93000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911023		92400.0000000	11NPSWRD	FRHI_DOE_D2	

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911031		89700.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911106	1200	78900.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911106	1200	91100.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911113		95500.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911119		88100.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911126		91000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911203		60300.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911211		86600.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911220		99100.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911227		97700.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920102		96400.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920109		87500.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920116		98900.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920122		100000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920129		92700.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920205		91500.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920212		91500.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920220		86200.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920316		85300.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920414		98020.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920527		91020.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920629		95100.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920723		96830.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920917		98420.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	921023		107280.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	921106		103000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	921207		111000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	930210		108000.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	930324		65600.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	930701		88810.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0059	01145	SELENIUM, DISSOLVED (UG/L AS SE)	930701		400.0000000	11NPSWRD	FRHI_DOE_D2	
FRHI0062	00435	ACIDITY, TOTAL (MG/L AS CACO3)	830309		1161.0000000	11NPSWRD	FRHI_BOM_2	
FRHI0062	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830309		9700.0000000	11NPSWRD	FRHI_BOM_2	
FRHI0062	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	830309		51800.0000000	11NPSWRD	FRHI_BOM_2	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910621		1071.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910626		1134.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910703		1105.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910718		1130.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910723		1140.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910730		1218.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910807		1180.0000000	11NPSWRD	FRHI_DOE_A	

Water Quality Observations
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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910815		1187.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910820		1200.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910828		1151.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910905		1244.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910911		1235.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910919		1210.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	910925		1244.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911002		1249.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911009		1253.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911017		1270.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911023		1291.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911031		1288.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911113		1307.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911119		1337.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911126		1330.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911203		1185.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911211		1212.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911220		1322.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	911227		1296.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920102		1290.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920109		1291.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920116		1198.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920122		1179.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920129		1051.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920205		1100.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920212		1242.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920220		1150.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920316		1064.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920414		1199.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920527		1135.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920629		1180.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920723		1206.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	920917		1268.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	921023		1277.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00435	ACIDITY, TOTAL (MG/L AS CACO3)	921106		1307.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	910905		2525.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	910911		2550.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	910925		2575.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911009		2600.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911017		2625.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911023		2650.0000000	11NPSWRD	FRHI_DOE_A	

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911031		2625.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911113		2774.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911119		2800.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911126		2675.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911203		2525.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911220		2625.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	911227		2575.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920109		2525.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	920116		2650.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	921023		2727.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	00946	SULFATE, DISSOLVED (MG/L AS SO4)	921106		2622.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910621		69500.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910626		69600.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910703		71600.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910718		72000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910723		73300.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910730		72600.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910807		72800.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910815		73000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910820		75500.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910828		76000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910905		75200.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910911		79200.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910919		73600.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	910925		76100.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911002		79300.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911009		74000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911017		83300.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911023		82000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911031		78600.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911113		76400.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911119		81200.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911126		79300.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911203		82200.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911211		73800.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911220		78900.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	911227		79800.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920102		75700.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920109		75400.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920116		78200.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920122		75700.0000000	11NPSWRD	FRHI_DOE_A	

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NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920129		66400.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920205		68700.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920212		72300.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920220		69700.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920316		63400.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920414		69500.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920527		66920.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920629		70000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920723		73900.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	920917		76180.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	921023		81730.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	921106		81100.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	940404		53120.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	941118		48120.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	960607		44530.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01145	SELENIUM, DISSOLVED (UG/L AS SE)	940404		1000.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01145	SELENIUM, DISSOLVED (UG/L AS SE)	941118		400.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0069	01145	SELENIUM, DISSOLVED (UG/L AS SE)	960607		500.0000000	11NPSWRD	FRHI_DOE_A	
FRHI0071	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	940404		34820.0000000	11NPSWRD	FRHI_DOE_B	
FRHI0071	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	960607		43890.0000000	11NPSWRD	FRHI_DOE_B	
FRHI0071	01145	SELENIUM, DISSOLVED (UG/L AS SE)	940404		1000.0000000	11NPSWRD	FRHI_DOE_B	
FRHI0071	01145	SELENIUM, DISSOLVED (UG/L AS SE)	960607		500.0000000	11NPSWRD	FRHI_DOE_B	
FRHI0074	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830309		7500.0000000	11NPSWRD	FRHI_BOM_3	
FRHI0074	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	830309		34300.0000000	11NPSWRD	FRHI_BOM_3	
FRHI0076	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	940404		32280.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	941118		48050.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	941219	1200	23150.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	941219	1200	23570.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	960607		45330.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01145	SELENIUM, DISSOLVED (UG/L AS SE)	940404		1000.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01145	SELENIUM, DISSOLVED (UG/L AS SE)	941118		400.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01145	SELENIUM, DISSOLVED (UG/L AS SE)	941219	1200	400.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01145	SELENIUM, DISSOLVED (UG/L AS SE)	941219	1200	400.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0076	01145	SELENIUM, DISSOLVED (UG/L AS SE)	960607		500.0000000	11NPSWRD	FRHI_DOE_C	
FRHI0078	01105	ALUMINUM, TOTAL (UG/L AS AL)	810819	1820	24000.0000000	112WRD	03071706	
FRHI0080	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830309		7100.0000000	11NPSWRD	FRHI_BOM_4	
FRHI0080	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	830309		30000.0000000	11NPSWRD	FRHI_BOM_4	
FRHI0082	01055	MANGANESE, TOTAL (UG/L AS MN)	800422	0900	6500.0000000	112WRD	03071708	
FRHI0082	01055	MANGANESE, TOTAL (UG/L AS MN)	800905	0930	6200.0000000	112WRD	03071708	
FRHI0082	01055	MANGANESE, TOTAL (UG/L AS MN)	810819	1800	7600.0000000	112WRD	03071708	
FRHI0082	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800422	0900	6900.0000000	112WRD	03071708	

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FRHI0082	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800905	0930	6600.0000000	112WRD	03071708	
FRHI0082	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810819	1800	7400.0000000	112WRD	03071708	
FRHI0082	01105	ALUMINUM, TOTAL (UG/L AS AL)	810819	1800	35000.0000000	112WRD	03071708	
FRHI0084	00445	CARBONATE ION (MG/L AS CO3)	810819	1400	190.0000000	112WRD	03072755	
FRHI0088	00945	SULFATE, TOTAL (MG/L AS SO4)	810819	1500	3000.0000000	112WRD	03072750	
FRHI0088	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	810819	1500	4620.0000000	112WRD	03072750	
FRHI0090	01045	IRON, TOTAL (UG/L AS FE)	800422	1600	85000.0000000	112WRD	03071950	
FRHI0090	01046	IRON, DISSOLVED (UG/L AS FE)	800422	1600	85000.0000000	112WRD	03071950	
FRHI0090	01055	MANGANESE, TOTAL (UG/L AS MN)	790829	1630	5100.0000000	112WRD	03071950	
FRHI0090	01055	MANGANESE, TOTAL (UG/L AS MN)	810819	1700	5600.0000000	112WRD	03071950	
FRHI0090	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790829	1630	5100.0000000	112WRD	03071950	
FRHI0090	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810819	1700	5600.0000000	112WRD	03071950	
FRHI0090	01105	ALUMINUM, TOTAL (UG/L AS AL)	810819	1700	27000.0000000	112WRD	03071950	
FRHI0090	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	790829	1630	23000.0000000	112WRD	03071950	
FRHI0092	00931	SODIUM ADSORPTION RATIO	680702		168.0000000	112WRD	03072000	
FRHI0094	01046	IRON, DISSOLVED (UG/L AS FE)	810820	0930	64000.0000000	112WRD	03071945	
FRHI0094	01055	MANGANESE, TOTAL (UG/L AS MN)	790829	1700	8900.0000000	112WRD	03071945	
FRHI0094	01055	MANGANESE, TOTAL (UG/L AS MN)	800422	1415	6100.0000000	112WRD	03071945	
FRHI0094	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790829	1700	8200.0000000	112WRD	03071945	
FRHI0094	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800422	1415	6200.0000000	112WRD	03071945	
FRHI0094	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800905	1415	6100.0000000	112WRD	03071945	
FRHI0094	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810820	0930	36000.0000000	112WRD	03071945	
FRHI0094	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	810820	0930	22000.0000000	112WRD	03071945	
FRHI0095	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	630823	0705	820.0000000	1114ENF1	410910	
FRHI0095	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	630826	1750	820.0000000	1114ENF1	410910	
FRHI0095	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	630827	0800	830.0000000	1114ENF1	410910	
FRHI0095	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	630829	0755	830.0000000	1114ENF1	410910	
FRHI0095	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	630830	0830	850.0000000	1114ENF1	410910	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	511009	0009	1000.0000000	21PA	WQN0714	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	530617	0019	1100.0000000	21PA	WQN0714	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	530916	0020	1600.0000000	21PA	WQN0714	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	591022	0034	940.0000000	21PA	WQN0714	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	620913	0041	1260.0000000	21PA	WQN0714	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	660811	0057	1000.0000000	21PA	WQN0714	
FRHI0096	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	680708	0065	928.0000000	21PA	WQN0714	
FRHI0096	00916	CALCIUM, TOTAL (MG/L AS CA)	820714	0900	1149.0000000	21PA	WQN0714	
FRHI0096	00945	SULFATE, TOTAL (MG/L AS SO4)	530916	0020	4000.0000000	21PA	WQN0714	
FRHI0096	00945	SULFATE, TOTAL (MG/L AS SO4)	620913	0041	2800.0000000	21PA	WQN0714	
FRHI0096	00945	SULFATE, TOTAL (MG/L AS SO4)	911010	1130	2867.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	511009	0009	150000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	520905	0014	62000.0000000	21PA	WQN0714	

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FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	530617	0019	160000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	530916	0020	160000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	540707	0022	65000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	541005	0023	60000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	591022	0034	191500.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	600823	0037	57100.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	620619	0040	100000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	620913	0041	200000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	630917	0045	80000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	640605	0048	66000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	640903	0049	88000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	660811	0057	140000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	670725	0061	80000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	680708	0065	60000.0000000	21PA	WQN0714	
FRHI0096	01045	IRON, TOTAL (UG/L AS FE)	681002	0066	60000.0000000	21PA	WQN0714	
FRHI0096	01055	MANGANESE, TOTAL (UG/L AS MN)	620913	0041	8500.0000000	21PA	WQN0714	
FRHI0096	01055	MANGANESE, TOTAL (UG/L AS MN)	630917	0045	6000.0000000	21PA	WQN0714	
FRHI0096	01055	MANGANESE, TOTAL (UG/L AS MN)	640903	0049	8000.0000000	21PA	WQN0714	
FRHI0096	01055	MANGANESE, TOTAL (UG/L AS MN)	660811	0057	9000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	510808	0008	40000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	511009	0009	113000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	520624	0013	22000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	520905	0014	23000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	521020	0015	33000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	530217	0017	23000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	530617	0019	109000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	530916	0020	208000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	540707	0022	40000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	550701	0024	92000.0000000	21PA	WQN0714	
FRHI0096	01105	ALUMINUM, TOTAL (UG/L AS AL)	680708	0065	35400.0000000	21PA	WQN0714	
FRHI0099	01055	MANGANESE, TOTAL (UG/L AS MN)	800904	1800	75000.0000000	112WRD	03072742	
FRHI0099	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800422	1830	7900.0000000	112WRD	03072742	
FRHI0099	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800904	1800	8000.0000000	112WRD	03072742	
FRHI0100	00435	ACIDITY, TOTAL (MG/L AS CACO3)	810827	0830	1860.0000000	112WRD	394827079583601	
FRHI0100	00945	SULFATE, TOTAL (MG/L AS SO4)	810827	0830	5800.0000000	112WRD	394827079583601	
FRHI0100	01045	IRON, TOTAL (UG/L AS FE)	810827	0830	260000.0000000	112WRD	394827079583601	
FRHI0100	01046	IRON, DISSOLVED (UG/L AS FE)	810827	0830	270000.0000000	112WRD	394827079583601	
FRHI0100	01055	MANGANESE, TOTAL (UG/L AS MN)	810827	0830	290000.0000000	112WRD	394827079583601	
FRHI0100	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810827	0830	260000.0000000	112WRD	394827079583601	
FRHI0100	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	810827	0830	9630.0000000	112WRD	394827079583601	
FRHI0103	01055	MANGANESE, TOTAL (UG/L AS MN)	790830	1500	6000.0000000	112WRD	03071935	

Water Quality Observations
Outside STORET Edit Criteria for FRHI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FRHI0103	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790830	1500	5900.0000000	112WRD	03071935	
FRHI0103	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	790830	1500	21000.0000000	112WRD	03071935	
FRHI0104	01055	MANGANESE, TOTAL (UG/L AS MN)	800905	1330	6700.0000000	112WRD	03071930	
FRHI0107	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	770820		30560.0000000	11NPSWRD	FRHI_NURE_04	
FRHI0107	00930	SODIUM, DISSOLVED (MG/L AS NA)	770820		13490.0000000	11NPSWRD	FRHI_NURE_04	
FRHI0109	00945	SULFATE, TOTAL (MG/L AS SO4)	810826	1300	2600.0000000	112WRD	394554080005101	
FRHI0109	01045	IRON, TOTAL (UG/L AS FE)	810826	1300	110000.0000000	112WRD	394554080005101	
FRHI0109	01046	IRON, DISSOLVED (UG/L AS FE)	810826	1300	120000.0000000	112WRD	394554080005101	
FRHI0109	01055	MANGANESE, TOTAL (UG/L AS MN)	810826	1300	90000.0000000	112WRD	394554080005101	
FRHI0109	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810826	1300	98000.0000000	112WRD	394554080005101	
FRHI0109	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	810826	1300	4080.0000000	112WRD	394554080005101	

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) FRHITABS.ZIP

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

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

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

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

(d) FRHIOV0.DOC - Overview of park and retrieved data.

(e) FRHIOV1.DOC - Station period of record table.

(f) FRHIOV2.DOC - Parameter period of record table.

(g) FRHIOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) FRHIBAD.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 FRHIOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\FRHIOV1.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) FRHIFIGS.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 FRHI0001. 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 FRHI0001) 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) FRHIPARM.ZIP

This file compresses FRHIPARM.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) FRHISITE.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) FRHIWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) FRHIDAMS.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) FRHIMISC.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) FRHIEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) FRHIWQ - 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 (FRHIWQA, FRHIWQB, FRHIWQC, etc.) and the index map name will end with an ampersand (&).

(g) FRHIIDG - 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 (FRHIIDGA, FRHIIDGB, FRHIIDGC, 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) FRHISEHY - 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 FRHIFIGS.ZIP and FRHITABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in FRHIMISC.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) FRHIRF3.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) FRHIWQMW.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: FRHIPARM.DBF in FRHIPARM.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: FRHIPARM.DBF in FRHIPARM.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: FRHIPARM.DBF in FRHIPARM.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: FRHIWQ.DBF in FRHISITE.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: FRHIWQ.DBF in FRHISITE.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: FRHIIFD.DBF in FRHISITE.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: FRHIIFD.DBF in FRHISITE.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: FRHIIFD.DBF in FRHISITE.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: FRHIDRIN.DBF in FRHISITE.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: FRHIDRIN.DBF in FRHISITE.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: FRHIDRIN.DBF in FRHISITE.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: FRHIGAGE.DBF in FRHISITE.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: FRHIGAGE.DBF in FRHISITE.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: FRHIDAMS.DBF in FRHISITE.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: FRHIDAMS.DBF in FRHISITE.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: FRHIDAMS.DBF in FRHISITE.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: FRHIDAMS.DBF in FRHISITE.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 FRHIRF3.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 FRHIRF3.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 FRHIRF3.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 FRHIRF3.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 FRHIRF3.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 FRHIRF3.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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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.